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CLIMATOLOGICAL DATA

NATIONAL SUMMARY

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
Environmental Data Service

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NOTE: Late reports and corrections will be carried in the June and December issues of this publication. An explanatory page "Description of Charts' will be carried in the January and July issues.

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I cerify that this is an official publication of the National Oceanic and Atmospheric Administration and is compiled from records on file at the National Climatic Center, Asheville, North Carolina 28801.

William H. Haggard

Director, National Climatic Center

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CLIMATOLOGICAL DATA

NATIONAL SUMMARY

JANUARY 1975

GENERAL SUMMARY OF WEATHER CONDITIONS

Dr. Richard E. Felch, Climatologist

HIGHLIGHTS: January temperatures averaged above normal across the Nation except for the western Mountain States, most of California and the northern tip of Maine. The northern Great Plains and areas east of the Mississippi averaged 4 to 6° above the normal, except over the Appalachians.

Precipitation amounts varied from none in parts of Arizona to about 20 inches on the Washington Coast. Amounts were above normal over most of the Country. Notable exceptions were the west central Great Plains, southern Florida, the Desert Southwest, all of California and northern Montana. Well above normal areas included Georgia, Alabama and Louisiana, most of the Corn Belt except for eastern Iowa, and the northern Great Plains.

PRECIPITATION: The New Year began with moderate rainfall over the eastern States and Deep South. Snow blanketed the Great Lakes area.

During the week ending on the 12th, heavy rains fell over the Deep South and a major blizzard moved across the northern Plains. Rainfall totaling 5 inches or more fell over parts of Louisiana, Mississippi, Alabama, and Georgia. Tornadoes ripped through the Southeast on the 10th. Forty-one were reported through the central Gulf Coast. The blizzard in the upper Midwest dropped heavy snows driven by 30 to 70 m.p.h. winds. Several deaths were attributed to the storm, and hundreds of travelers were left stranded.

Precipitation was generally lighter during the following week, although the remnants of the snow storm of the previous week whitened New England. Other weak storm systems also produced some light precipitation in the Northwest and Northeast. Over the weekend of the 18th, a winter storm moved out of the Rockies and spread precipitation over most of the eastern United States.

A powerful winter storm packed heavy snows around the Great Lakes during the week ending the 26th as upper Michigan was covered with over 40 inches of snow. As much as 2 feet of new snow fell in Minnesota. Heavy thundershower activity on the 24th and 25th dropped as much as 2 inches of rain over the Southeast.

The month ended with heavy rains along a stationary front across the Nation's midsection. Heavy rain fell along the front with totals ranging from 1 to 3 inches over sections of Texas, Oklahoma, Kansas, Missouri, and Arkansas.

TEMPERATURE: Temperatures averaged well above normal during the opening week of January over the eastern half of the Nation. Only the Southwestern quadrant averaged below normal.

The week ending the 12th was quite similar in temperature distributions. Most of the Northeast averaged 6 to 15° above normal. Record highs were set in many Midwestern cities on the 10th and 11th, despite the blizzard howling to the west.

The distribution of temperature departures reversed during the week of the 19th. The western States were well above normal, while the eastern States cooled markedly. Parts of Montana were as much as 18° above normal. In the South only southern Florida escaped freezing temperatures.

The entire Nation averaged above normal during the week ending the 26th, although cold air invaded the Nation briefly at midweek.

The month ended with the eastern States again well above normal and extremely cold temperatures in the western States.

OBSERVED EXTREMES OF TEMPERATURE AND PRECIPITATION -- BY STATES

JANUARY 1975

STATE	Temperature						Precipitation			
	Monthly extremes						Monthly extremes			
	Station	Highest	Date	Station	Lowest	Date	Station	Greatest	Station	Least
		°F			°F			In.		In.
Alabama	3 Stations	82	30+	New Market 2	6	14	2 Stations	8.66	Atmore	3.33
Alaska	2 Stations	49	22+	Clear Water	-72	7+	Mac Leod Harbor	20.04	Franklin Bluffs	T
Arizona	2 Stations	85	22+	Happy Jack Ranger Station	-16	12	Hawley Lake	4.01	7 Stations	.00
Arkansas	6 Stations	81	29+	Gilbert	5	13	West Memphis	7.36	Langley	1.11
California	Canoga Park Pierce College	93	14	2 Stations	-20	1	Happy Camp Ranger Station	12.78	25 Stations	.00
Colorado	2 Stations	72	27	Taylor Park	-38	1	Wolf Creek Pass 1 E	6.07	Kit Carson	T
Connecticut	2 Stations	62	12+	Norfolk 2 SW	- 7	21	Stevenson Dam	6.09	3 Stations	4.30
Delaware	5 Stations	70	30+	Milford 2 WSW	12	15	Georgetown 5 SW	5.63	Wilmington WSO AP	4.23
Florida	Myakka River State Park	89	30+	Fountain 3 SSE	21	21	Fountain 3 SSE	12.67	Belle Glade Exp. Station	.08
Georgia	Lumber City	89	31	2 Stations	9	14	Bainbridge	11.64	Savannah WSO AP	3.17
Hawaii	Keawakapu Beach 260.2,Maui	88	12	Mauna Loa Slope Obs., Ha.	24	26	Hilo Country Club 866, Ha.	51.82	Kaunakakai 536, Molokai	.39
Idaho	Bruneau	59	25	Stanley	-41	30	Fenn Ranger Station	9.82	Grand View 2 W	.16
Illinois	2 Stations	70	28	La Harpe	-10	20	Greenup	6.04	Galena 1 N	.91
Indiana	2 Stations	70	29	Lagrange Sewage Plant	- 5	21+	Vincennes	5.66	Rochester	1.77
Iowa	2 Stations	58	11+	Elkader 5 SSW	-19	20	Britt	4.56	Toledo	.43
Kansas	Elkhart	73	26	Blaine	-11	12	Mound Valley 3 WSW	4.38	5 Stations	.00
Kentucky	7 Stations	74	30+	Gray Hawk	0	15+	Bowling Green	6.93	Lloyd Greenup Dam	2.50
Louisiana	Bastrop	84	27	Homer Exp. Station	10	13	Greensburg	12.65	Galliano	2.54
Maine	Saco	53	12	Van Buren 2	-37	31	Belfast	5.55	Middle Dam	1.67
Maryland	Dalecarlia Reservoir D C	78	29	Oakland 1 SE	- 6	21	Assateague State Park	7.95	Waldorf Police Barracks	1.37
Massachusetts	New Bedford	63	12	Chester 2	-17	21	Fall River	7.43	Adams	3.48
Michigan	Benton Harbor Airport	60	10	Stambough 1 S	-29	22	Houghton FAA AP	6.57	Kalkaska	1.36
Minnesota	Luverne	44	1	Tower 3 S	-40	22	Bird Island	5.16	Karlstad	.53
Mississippi	3 Stations	82	30+	Holly Springs 4 N	8	13	Columbia	12.68	Lexington 2 NNW	2.65
Missouri	Kennett Radio KBOA	73	28	Shelbina	-14	20	De Soto	7.75	Spickard 7 W	.70
Montana	Columbus	57	23	Wisdom	-40	31	Lindbergh Lake	6.54	5 Stations	T
Nebraska	Benkelman	69	21	Gordon	-17	11	Tekamah	2.57	4 Stations	.02
Nevada	Sunrise Manr Las Vegas	78	27	3 Stations	-22	30+	Carlin Gold Mine	2.65	4 Stations	.00
New Hampshire	2 Stations	56	12	2 Stations	-28	31+	Mount Washington	13.61	Lancaster	1.80
New Jersey	Morris Plains 1 W	70	12	2 Stations	- 1	22+	Canistear Reservoir	6.62	Cranford	3.85
New Mexico	Bitter Lakes Wildlife Ref	84	27	Tierra Amarilla 4 NNW	-31	12	Cloud Country Lodge	D 2.97	Grenville	.01
New York	2 Stations	68	12+	Old Forge	-26	21	Bridgehampton	6.90	Addison	.86
North Carolina	Wilmington WSO AP	82	31	Grandfather Mountain	- 1	14	Nantahala	9.21	Boone	2.76
North Dakota	5 Stations	48	24+	4 Stations	-30	21+	Wahpeton	2.42	Dickinson Exp. Station	T
Ohio	4 Stations	71	30+	Fredericktown 4 S	- 5	21+	Fredericktown 4 S	5.67	Lancaster 2 NW	1.71
Oklahoma	Ardmore	81	27	Kenton	- 8	12	Pryor 5 SSE	5.20	Hooker 2 SW	.07
Oregon	Dora 2 W	73	18	Seneca	-20	30	Nehalem 9 NE	31.33	Rockville 5 N	.18
Pennsylvania	Morgantown	73	12	2 Stations	-17	21	Port Clinton	6.33	Wellsboro 3 S	1.28
Puerto Rico	2 Stations	92	27+	Adjuntas Substation	46	11	Pico Del Este	11.85	5 Stations	.00
Rhode Island	Providence WSO AP	61	11	North Foster 1 E	6	18+	Kingston	7.57	Woonsocket	5.80
South Carolina	3 Stations	85	31+	Longcreek 1 N	13	14	Mc Cormick 9 E	8.14	Aiken	3.41
South Dakota	2 Stations	57	23	2 Stations	-26	11	Deadwood	D 3.04	Gettsburg 14 W	.12
Tennessee	Memphis WSO AP	77	28	Waverly 4 W	2	13	Pulaski Water Plant	8.13	Lafayette	2.78
Texas	2 Stations	95	27+	2 Stations	- 7	12	Orange 4 NW	8.40	Crider Ranch	.00
Utah	3 Stations	69	26+	Woodruff	-30	12	Alta	9.22	Canyonlands-The Neck	T
Vermont	Dorset 1 S	59	12	2 Stations	-23	22+	Searsburg Station	6.06	Saint Albans Bay	1.07
Virginia	6 Stations	78	30+	Timberville 3 E	- 7	21	Wallaceton Lk Drummond	6.82	Covington Filt Plant	1.68
Virgin Islands	Cruz Bay	87	3	Charlotte Amalie 2	62	24	Kings Hill	2.94	Frederiksted	.36
Washington	Sunnyside	64	19	Deer Park Airport	-22	11	Rainier Paradise RS	29.61	Irene Mt Wauconda	.57
West Virginia	Martinsburg FAA AP	76	29+	Elkins WSO AP	- 8	17	Mannington 1 N	6.18	Moorefield 2 SSE	D1.62
Wisconsin	4 Stations	55	11+	3 Stations	-29	22	Madeline Island	4.01	Charmany University Farm	.48
Wyoming	Lagrange	59	18	Darwin Ranch	-45	12	Burgess Junction	4.48	2 Stations	T

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure: Station O	Pressure: Sea level	Temperature: Average maximum	Temperature: Average minimum	Temperature: Average	Temperature: Departure from normal	Temperature: Highest	Temperature: Date	Temperature: Lowest	Temperature: Date	No. of days: Max 32.2 °C or above	No. of days: Min. 0 C or lower	Average dew point	Average relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	No. of days: 25 mm or more	No. of days: With thunderstorms	Snow, Ice pellets: Total	Snow, Ice pellets: Maximum depth on ground	Wind: Resultant speed	Wind: Resultant direction	Fastest mile (1.6 kilometers): Speed	Fastest mile: Direction	Fastest mile: Date	No. of days (sunrise to sunset): Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m s		m s							%
ALABAMA																																
BIRMINGHAM	189	998.0	1020.8	14.8	4.2	9.5	2.7	25.0	29	-7.2	14	0	11	4.4	71	184	61	80	11	2	T	T	0.7	20	21.9	W	10	7	4	20	7.2	49
HUNTSVILLE	190	997.3	1020.7	13.2	2.1	7.7	2.7	22.2	28	-10.0	14	0	13	3.3	75	137	6	51	11	1	94	102	0.8	20	13.4	26	25	7	11	13	6.5	
MOBILE	64	1012.5	1020.4	18.9	8.3	13.7	3.0	26.1	1	-3.3	14	0	5	8.9	77	87	-33	36	12	3	0	0	0.5	12	12.5	22	10	7	6	18	6.7	
MONTGOMERY	59	1013.9	1021.3	17.5	5.4	11.4	2.8	27.2	29	-5.0	14	0	5	6.1	74	171	69	75	10	2	0	0	0.3	28	32.2	W	10	7	7	17	6.5	60
ALASKA												8																				
ANCHORAGE	35	1004.1	1009.2	-6.9	-15.4	-11.2	0.1	5.6	26+	-36.7	5	0	31	-15.6	70	11	-10	6	6	0	145	406	0.5	3	10.7	14	26	9	3	19	6.5	33
ANNETTE	34	1007.1	1011.3	1.4	-3.1	-0.8	-1.7	6.7	19	-13.9	9+	0	27	-3.9	81	287	22	49	26	0	777	279	2.1	13	21.0	13	2	1	6	24	8.7	
BARROW	9	1019.6	1020.0	-29.5	-35.4	-32.4	-6.5	-6.7	31	-47.2	3	0	31	-35.6	73	4	-2	2	8	0	58	152	1.0	10	13.0	11	28					
BARTER ISLAND	12	1018.6	1020.7	-30.4	-36.0	-33.2	-7.0	-17.2	29	-47.8	12	0	31	-36.7	73	4	-10	1	8	0	64	127	0.9	26	20.6	28	13					
BETHEL	38	1006.4	1012.3	-15.4	-21.7	-18.6	-3.7	0.6	27+	-37.2	5	0	31			7	-6	3	8	0	170	254	1.8	3	14.8	20	27+	10	6	15	5.9	
BETTLES	196			-25.9	-33.7	-29.8	-4.7	-5.6	29+	-56.7	4	0	31			17	-1	8	8		290	483			9.4	8	16	14	6	11	5.0	
BIG DELTA	386			-20.6	-28.3	-24.4		2.2	26	-50.6	7+	0	31			19		17	4		157	305										
COLD BAY	29	1004.4	1008.0	-0.7	-7.8	-4.2	-2.1	6.1	27	-20.0	7+	0	27	-6.7	81	79	18	42	16	0	157	152	0.5	5	18.8	15	26	4	3	24	8.3	
FAIRBANKS	133	998.6	1017.2	-22.2	-30.6	-26.4	-2.0	1.1	26	-49.4	6+	0	31	-31.1	64	15	0	11	8	0	358	787	0.6	36	12.1	25	29	3	5	23	7.7	
GULKANA	479			-17.6	-27.1	-22.4	-0.6	-1.7	26+	-48.9	5	0	31			6	-9	2	4		81	610										
HOMER	19	1004.4	1007.1	-4.3	-10.6	-7.4		5.6	22	-27.2	5	0	24	-11.1	74	64	20	15	13	0	414	483	1.3	3	13.0	23	1	9	4	18	6.5	
JUNEAU	4	1009.5	1010.3	-2.6	-7.4	-4.9	-0.2	4.4	19	-21.7	11+	0	29	-9.4	70	104	4	23	21	0	1054	559	3.4	11	13.4	12	2	2	4	25	8.6	20
KING SALMON	15	1007.1	1009.2	-10.4	-20.0	-15.2	-4.8	3.3	15	-43.3	3	0	31			54	30	19	16	0	485	381	0.9	6	17.4	15	25	8	5	18	6.7	
KODIAK	4	1001.7	1006.1	-0.7	-6.6	-3.6	-2.7	5.6	28	-22.2	14	0	27	-7.8	75	267	140	64	17	0	818	584	2.1	33	19.7	27	26	8	6	17	6.6	
KOTZEBUE	3	1015.2	1015.8	-19.2	-27.2	-23.2	-3.4	-1.1	27	-41.1	3+	0	31			6	1	4	9	0	140	381	3.0	10	20.6	11	31	9	4	18	6.5	
MC GRATH	105	1001.7	1015.4	-20.8	-31.1	-25.9	-3.2	5.6	27	-51.1	4+	0	31			34	14	17	9	0	[illegible]	787	[illegible]	33	9.4	31	26+	12	5	14	6.0	
NOME	4	1012.5	1013.4	-13.8	-22.6	-18.2	-3.7	-0.6	27+	-35.0	7+	0	31	-20.6	80	15	-7	5	7	0	244	279	2.1	7	14.3	10	25+	14	2	15	5.3	36
ST. PAUL ISLAND	7	1009.1	1009.8	-4.8	-11.2	-8.0	-4.7	2.2	30+	-21.7	15	0	31	-9.4	65	37	-9	10	18	0	[illegible]	391	2.4	4	20.1	1	15	3	10	18	7.3	
SUMMIT	731			-15.2	-21.1	-18.2	-1.3	-0.6	19+	-38.9	4	0	31			29	6	8	11	0	729	1930			17.4	9	12	9	4	18	6.7	
TALKEETNA	105			-10.6	-20.5	-15.5	-2.9	0.6	23+	-42.8	3	0	31			50	8	23	10	0	805	1168			8.0	2	14	10	2	19	6.2	
UNALAKLEFT	5			-15.3	-23.0	-19.2		0.0	28+	-38.9	3+	0	31			11		4	9		107	178			21.0	7	15					
YAKUTAT	9	1005.8	1006.9	-1.6	-7.8	-4.7	-0.3	4.4	22+	-27.2	10	0	25	-7.8	78	271	8	56	20	0	1918	1016	2.1	9	14.8	16	12	6	5	20	7.6	
ARIZONA																																
FLAGSTAFF	2135	787.0	1020.2	5.3	-10.1	-2.4	-0.1	16.7	15	-18.9	5+	0	30	-12.2	50	45	-3	19	9	0	511	279	[illegible]	25	17.0	SW	28	13	7	11	4.9	86
PHOENIX	340	978.7	1018.2	19.1	3.4	11.3	0.6	27.2	19	-2.8	5	0	6	-3.3	42	1	-18	1	1	0	0	0	0.7	10	14.3Y	W	28+	15	5	11	4.5	78
TUCSON	788	927.9	1016.9	17.4	2.3	9.9	-0.6	25.0	26	-3.9	3	0	8	-5.0	42	9	-10	7	3	0	0	0	[illegible]	15	14.3	W	9	18	6	7	3.4	83
WINSLOW	1492	853.4	1023.8	4.6	-10.9	-3.2	-3.5	17.8	26	-19.4	3	0	30	-7.8	76	10	0	6	3	0	135	76	1.4	21	15.6	23	28+	14	9	8	4.5	
YUMA	59	1011.2	1018.5	20.3	5.5	12.9	-0.1	27.8	19	-0.6	2	0	1	-3.3	35	T	-10	T	0	0	0	0	2.2	36	14.8	NW	1	17	6	8	3.6	92
ARKANSAS																																
FORT SMITH	136	1001.7	1018.9	11.7	-1.1	5.3	1.4	23.9	27	-11.1	13	0	20	-1.7	68	58	-3	37	9	3	0	0	0.6	36	13.0	W	10	11	6	14	5.6	61
LITTLE ROCK	78	1009.8	1019.6	13.2	0.8	7.0	2.8	26.7	27	-10.0	13	0	17	2.2	74	118	10	36	11	4	36	25	0.8	22	17.0	W	10	9	9	13	6.0	66
CALIFORNIA																																
BAKERSFIELD	145	1004.1	1022.0	14.2	2.2	8.2	-0.4	21.7	25+	-3.3	2	0	6	2.2	72	2	-23	2	1	0	0	0	0.4	3	10.3	28	8	14	5	12	5.0	
BISHOP	1252	876.4		13.9	-5.8	4.1	1.3	22.8	20	-13.3	31+	0	30			T	-30	T	0		0	0			21.0Y		26	15	8	8	4.2	
BLUE CANYON	1609	841.2		8.8	1.4	5.1	2.7	17.2	19+	-8.9	29+	0	15			191	-156	58	12		542	203	0.8	15	12.5	21	8	14	7	10	4.9	
EUREKA U	13			11.0	4.3	7.7	-0.8	15.6	24+	-0.6	29+	0	3			132	-56	36	13		0	0			16.5	N	25	6	7	18	7.1	50
FRESNO	100	1010.5	1022.4	11.3	1.3	6.3	-1.1	19.4	25	-5.0	28	0	12	2.8	83	18	-29	15	2	1	0	0	0.2	4	11.2	NW	26	10	7	14	6.1	55
LONG BEACH	8	1017.3	1018.7	20.9	6.6	13.7	1.4	31.1	19+	1.7	1	0	0	5.0	62	2	-55	2	2	0	0	0	0.4	27	8.0	27	8	14	8	9	4.4	
LOS ANGELES	30	1014.9	1018.5	19.6	8.0	13.8	1.3	30.6	14	2.8	29	0	0	3.9	60	T	-64	T	1	0	0	0	0.4	30	17.9Y	W	8	15	7	9	4.5	
LOS ANGELES U	87			20.1	8.3	14.2	0.5	31.1	14	2.2	29	0	0			3	-73	2	2		0	0			9.8	NW	9	18	9	4	3.0	63
MT SHASTA R	1087	896.0	1023.0	6.4	-3.9	1.3	0.4	17.2	24	-12.8	30	0	28			71	-98	42	11		848	610										
OAKLAND	2	1022.0	1022.1	14.1	5.6	9.9	0.7	17.2	24+	0.0	30	0	1	4.4	71	50	-53	18	8	1	0	0	[illegible]	29	13.9	16	31	20	4	7	3.7	
RED BLUFF	104	1009.1	1022.1	12.8	1.0	6.9	-0.4	22.8	18	-6.7	28	0	8	0.6	72	46	-68	28	6	0	66	T	1.4	33	17.9	S	31	11	7	13	5.3	71
SACRAMENTO	5	1021.3	1022.1	10.5	2.2	6.3	-0.9	16.1	25	-3.9	28	0	7	2.8	85	19	-76	11	7	0	0	0	[illegible]	17	15.2	SE	31	7	12	12	6.1	45
SANDBERG R	1377	864.5		9.8	1.9	5.8	1.3	19.4	25+	-6.7	28+	0	15	-7.8	47	3	-52	2	3		T	102	3.7	1	21.9	34	9	14	7	10	4.5	
SAN DIEGO	4	1017.6	1018.7	18.8	7.9	13.4	0.5	27.8	14	4.4	3	0	0	3.9	58	12	-35	10	4	0	0	0	1.0	28	9.4	W	9+	17	6	8	4.0	68
SAN FRANCISCO	2	1021.0	1021.7	13.3	3.8	8.6	-0.5	17.8	24	-1.1	30	0	1	4.4	79	66	-45	45	8	1	T	T	0.8	29	18.3	20	31	18	5	8	4.0	
SAN FRANCISCO U	16			13.6	7.5	10.6	0.1	20.0	24	3.9	29	0	0			65	-49	25	10													
SANTA MARIA	72			18.1	2.1	10.1	-0.2	28.3	19	-5.6	28	0	9			3	-55	2	3		0	0						18	9	4	3.2	
STOCKTON	7	1021.3	1022.4	9.6	1.2	5.4	-1.6	14.4	25+	-6.1	28	0	11	2.8	89	24	-50	[illegible]	5	0	0	0	0.6	18	13.9	16	31+	7	6	18	6.8	
COLORADO																																
ALAMOSA	2297	769.4		-4.1	-24.0	-14.0	-5.8	9.4	25	-33.3	11+	0	31			[illegible]	3	3	6		178	203						9	10	12	5.5	

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure		Temperature								No of days				Precipitation			No of days		Snow, Ice pellets		Wind		Fastest mile (1.6 kilometers)			No of days (sunrise to sunset)				
		Station	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min 0 C or lower	Average dew point	Average relative humidity	Total	Departure from normal	Greatest in 24 hours	25 mm or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m s		m s							%
COLORADO																																
COLORADO SPRINGS	1873	807.0	1017.2	5.9	-9.1	-1.6	0.3	17.2	26	-23.9	12	0	31	-11.1	54	3	-5	2	8	0	71	51	2.0	2	21.5	36	18	7	10	14	6.1	
DENVER	1610	832.4	1014.2	8.0	-8.4	-0.2	1.0	19.4	26	-22.8	12	0	31	-10.6	51	[illegible]	-10	4	5	0	91	51	0.9	27	19.2	W	20	9	7	15	6.3	64
GRAND JUNCTION	1476	854.0	1024.6	-0.3	-13.0	-6.7	-3.7	8.9	26	-22.2	12	0	31	-11.1	74	13	-3	6	10	0	201	102	0.7	7	13.9	W	28	7	10	14	6.6	58
PUEBLO	1428	852.7	1016.0	6.4	-8.8	-0.2	0.8	20.6	26	-21.7	12	0	31	-8.3	60	[illegible]	-6	1	3	0	43	25	1.1	36	25.5	N	18	10	6	15	5.9	85
CONNECTICUT																																
BRIDGEPORT	2	1018.0	1018.7	5.1	-1.5	1.8	2.8	13.3	11	-9.4	21	0	21			119	51	24	13	0	64	25	2.3	31	14.3	27	26	4	13	14	6.8	
HARTFORD	52	1011.5	1018.1	4.2	-5.1	-0.4	3.6	15.0	11	-15.0	18+	0	25	-6.7	66	109	26	23	14	0	259	152	1.6	30	15.6	NW	30	4	13	14	6.9	58
DELAWARE																																
WILMINGTON	23	1016.3	1019.3	7.5	-1.4	3.1	3.1	20.0	29	-10.6	15	0	20	-2.2	70	107	35	21	15	0	130	76	1.7	30	13.0	29	29	5	9	17	7.2	
DIST.OF COLUMBIA																																
WASHINGTON DULLES	88	1007.8	1019.9	6.8	-4.5	1.1	1.1	23.9	29	-14.4	21	0	24	-3.9	72	70	-2	18	15	0	191	102	1.3	29	14.8	30	1	4	10	17	7.2	
WASHINGTON NATIONAL	3	1017.6	1020.0	9.6	0.3	4.9	2.9	24.4	29	-7.2	15	0	16	-1.7	65	78	12	21	14	0	168	102	1.3	30	19.2	NW	1	4	9	18	7.1	46
FLORIDA																																
APALACHICOLA U	4			18.0	9.9	14.0	1.9	25.6	1	0.0	14	0	1			172	94	39	11	4	0	0			11.6	SE	10	8	8	15	6.4	51
DAYTONA BEACH	9	1020.0	1021.4	23.7	11.3	17.6	2.9	27.8	29+	0.6	14	0	0	13.9	81	42	-10	11	7	2	0	0	0.4	21	15.6	28	25	5	13	13	6.4	
FORT MYERS	5	1020.3		27.3	14.4	20.8	3.3	30.6	31+	2.2	15	0	0	15.0	74	7	-35	6	2	1	0	0	1.1	11	10.3	33	13	8	17	6	5.2	
JACKSONVILLE	8	1020.3	1021.4	21.3	8.2	14.8	2.2	28.3	31	-2.8	15	0	3	11.1	83	88	18	23	8	1	0	0	0.3	25	17.0	SW	25	8	10	13	6.2	63
KEY WEST	1	1019.0	1019.7	26.1	21.3	23.7	2.2	27.8	30	14.4	14	0	0	19.4	80	4	-38	3	4	1	0	0	3.6	10	13.4	N	13	11	16	4	4.9	79
LAKELAND U	65			24.2	13.2	18.7	2.7	28.9	31	0.6	14	0	0			29	-30	11	7		0	0						8	15	8	5.5	69
MIAMI	2	1020.3	1020.7	25.9	19.3	22.6	3.1	28.9	20	7.8	14	0	0	17.2	73	35	-19	20	7	0	0	0	2.8	9	10.7	33	14+	9	17	5	5.2	
ORLANDO/MC COY AFB	29	1017.6	1021.3	25.1	12.4	18.8	3.1	28.9	31+	0.6	15	0	0	13.3	75	25	-33	10	6	2	0	0	0.3	13	13.4	29	25	6	14	11	6.3	
PENSACOLA	34	1016.6	1020.7	18.8	9.3	14.1	2.9	26.7	1	-2.2	14	0	2	10.0	79	115	4	25	11	3	0	0	0.8	6	11.2	17	10	10	5	16	6.3	
TALLAHASSEE	17	1019.0	1021.2	19.4	5.8	12.7	1.2	27.2	31	-3.9	15	0	7	9.4	84	297	202	83	12	3	0	0	0.4	9	12.5	17	12+	8	12	11	6.0	
TAMPA	6	1020.7	1020.8	24.3	12.4	18.4	2.6	28.9	30+	0.6	15	0	0	12.8	73	23	-36	9	7	0	0	0	0.9	11	10.3	26	25	8	13	10	5.5	66
WEST PALM BEACH	5	1020.0	1020.7	26.3	17.2	21.8	3.2	29.4	20	5.6	14	0	0	17.2	76	12	-54	4	5	0	0	0	1.9	11	11.2	12	10	3	20	8	6.3	
GEORGIA																																
ATHENS	244	991.2	1020.6	14.3	3.3	8.8	2.5	26.7	30	-7.2	14	0	8	3.9	75	141	20	34	12	2	0	0	1.0	27	12.1	27	25	9	9	13	6.1	
ATLANTA	308	983.1	1020.5	13.9	2.9	8.4	2.7	25.0	29	-7.8	14	0	10	2.8	71	157	47	43	12	2	T	T	0.8	26	19.7	SW	10	8	8	15	6.2	55
AUGUSTA	41	1015.2	1020.7	14.9	2.2	8.6	0.9	26.7	30	-6.1	15+	0	11	3.9	77	94	7	33	11	0	0	0	0.7	25	11.2	28	25	8	6	17	6.4	
COLUMBUS	117	1006.8		16.9	4.4	10.7	2.4	26.7	29	-5.6	14	0	8	5.6	76	169	58	43	9	2	0	0	0.4	3	13.0	18	10	5	12	14	6.5	
MACON	108	1008.1	1021.3	17.1	4.3	10.7	1.9	26.7	29	-5.0	14	0	7	5.6	72	155	61	60	12	3	0	0	0.4	28	11.6	W	25	8	9	14	6.2	66
ROME	194			13.9	1.8	7.9	2.8	24.4	29	-8.3	14	0	13			135	8	68	10		T	T										
SAVANNAH	14	1020.0	1021.7	18.9	6.9	12.9	3.0	28.3	30	-2.8	14	0	3	8.3	78	81	6	25	11	0	0	0	0.6	28	16.1	W	25	10	5	16	6.1	43
HAWAII																																
HILO	8	1015.2	1016.3	25.3	17.9	21.7	-0.1	27.2	23+	15.6	28+	0	0	17.2	79	498	268	204	22	2	0	0	0.9	16	9.8	SE	8	5	7	19	7.5	35
HONOLULU	2	1014.9	1015.3	26.7	18.1	22.4	0.1	28.9	29+	13.3	28	0	0	17.2	76	163	51	80	14	1	0	0	2.9	7	16.1	SE	31	11	14	6	5.2	59
KAHULUI	15	1012.5	1015.0	26.2	17.5	21.8	-0.2	29.4	9	12.2	28	0	0			84	-7	51	14	1	0	0	3.4	6	15.2	E	8	14	7	10	5.1	60
LIHUE	31	1010.8	1016.1	25.5	20.0	22.8	1.0	27.8	21+	16.7	27+	0	0	16.7	71	357	199	107	21	1	0	0	2.7	7	15.6	S	31	2	14	15	6.9	43
IDAHO																																
BOISE	865	919.7	1023.4	2.3	-6.5	-2.1	-0.4	10.6	25	-20.6	2	0	30	-6.7	73	15	-22	4	10	0	137	102	0.7	12	13.9	NW	26+	3	4	24	8.2	29
LEWISTON	431			4.6	-2.1	1.3	1.7	13.9	18	-12.2	11	0	23			71	39	22	16		127	25			22.8Y		12	2	3	26	8.9	
POCATELLO	1358	864.9	1023.4	-0.6	-10.1	-5.3	-0.4	10.0	15	-24.4	1	0	29	-10.0	71	17	-10	4	13	0	188	76	2.9	22	18.8	SW	8	5	3	23	7.8	44
ILLINOIS																																
CAIRO U	96			8.5	-0.4	4.1	1.7	21.1	28	-10.0	13	0	18			85	-16	33	12		T	T			19.2	SW	10					45
CHICAGO O HARE	201	990.9	1016.0	1.4	-6.6	-2.6	2.4	15.6	10	-16.7	14	0	27	-6.1	76	94	51	47	14	5	69	51	3.1	23	17.0	20	11	3	5	23	8.2	
CHICAGO MIDWAY	185	993.6	1017.2	1.6	-6.2	-2.3	2.0	15.6	10	-16.7	14+	0	28	-6.1	77	93	46	62	17	4	183	51	2.6	23	18.8	SW	11	4	4	23	8.0	32
MOLINE	177	994.6	1017.1	0.4	-8.3	-3.9	1.9	13.9	10	-22.2	20	0	29	-7.2	75	38	-4	9	18	1	193	76	2.5	25	17.4	SW	11	5	4	22	7.7	50
PEORIA	195	992.9	1017.7	1.8	-6.9	-2.5	2.1	15.0	10	-20.0	20	0	29	-5.6	79	66	20	37	16	3	224	76	2.1	21	14.8	SW	11+	3	6	22	8.0	29
ROCKFORD	221	988.5	1016.5	-0.3	-9.2	-4.7	1.8	12.8	10	-20.6	20	0	29	-8.3	75	60	15	27	13	1	107	76	2.1	24	16.5	22	11	3	6	22	8.0	
SPRINGFIELD	179	995.3	1018.2	3.7	-4.7	-0.5	2.4	16.1	10	-16.7	20	0	25	-3.3	80	109	64	71	13	3	114	51	2.2	22	19.7	SW	11	3	7	21	7.7	45
INDIANA																																
EVANSVILLE	118	1005.1	1019.4	6.9	-1.7	2.7	2.3	21.1	29	-11.1	13	0	22	-1.1	74	103	17	30	12	1	58	25	1.1	24	16.1	SW	10	4	8	19	7.4	41
FORT WAYNE	241	986.8	1017.8	2.2	-4.7	-1.2	2.5	15.6	10	-14.4	20	0	28	-4.4	77	61	-2	16	17	1	147	51	3.5	24	22.4	SW	10	4	5	22	8.0	47

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station		Pressure		Temperature												Precipitation							Wind					No of days (sunrise to sunset)				
												No of days							No of days		Snow, Ice pellets				Fastest mile (1.6 kilometers)							
	Elevation (ground)	Station Ø	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min. 0 C or lower	Average dew point	Average relative humidity	Total	Departure from normal	Greatest in 24 hours	25 mm or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m s		m s							%
INDIANA																																
INDIANAPOLIS	241	988.5	1018.4	4.3	-4.3	0.0	2.3	18.3	29	-14.4	20	0	27	-2.8	82	111	38	26	16	4	173	51	2.4	23	21.9	SW	10	4	7	20	7.8	38
SOUTH BEND	236	987.5	1016.2	2.4	-4.7	-1.1	3.3	16.1	10	-14.4	20	0	28	-4.4	78	116	56	48	17	2	234	76	3.6	23	23.2	22	10	1	6	24	8.5	
IOWA																																
BURLINGTON	211			1.3	-7.7	-3.2	1.9	14.4	10	-21.7	20	0	30	-5.6	81	42	2	13	11	1	203	76	2.0	26	15.6	25	10	5	6	20	7.2	
DES MOINES	286	981.0	1017.1	-0.6	-9.8	-5.2	1.8	5.6	24	-22.2	20	0	31	-9.4	71	36	7	19	9	1	338	152	1.6	28	18.8	NW	11	5	6	20	7.5	38
DUBUQUE	322	975.6		-2.1	-10.9	-6.4	1.5	8.9	10	-22.2	20	0	31			23	-21	7	13		157	76										
SIOUX CITY	334	975.6	1017.4	-1.8	-13.4	-7.6	0.2	5.0	17	-27.2	16	0	31	-10.6	77	42	26	19	12	0	462	330	1.2	28	17.9	NW	25	9	2	20	7.0	44
WATERLOO	265	983.4	1016.7	-2.4	-12.6	-7.5	1.2	5.6	10	-21.7	22+	0	31	-11.7	71	23	-2	9	11	1	178	102	1.7	25	14.3	27	11	4	5	22	7.7	
KANSAS																																
CONCORDIA	448	962.8	1017.4	3.6	-6.8	-1.6	1.5	12.2	18	-18.9	12	0	28	-5.0	78	18	1	8	6	0	264	152	1.3	26	16.1	NW	10	9	8	14	6.1	70
DODGE CITY	787	924.1	1017.1	7.6	-5.6	1.0	1.7	17.8	20	-18.9	12	0	31	-6.1	67	5	-7	4	3	0	74	51	1.6	28	24.1	N	18	7	13	11	5.7	75
GOODLAND	1114	885.9	1016.2	6.4	-8.3	-0.9	1.5	19.4	20	-21.1	12	0	31	-8.3	62	5	-4	2	4	1	91	76	2.4	27	20.6	33	18	7	9	15	6.1	
TOPEKA	267	985.4	1018.3	4.9	-6.4	-0.7	1.5	13.3	18	-17.8	12	0	29	-4.4	78	38	13	14	7	0	127	76	1.2	28	13.9	NW	13	9	5	17	6.3	59
WICHITA	403	968.8	1018.1	6.3	-4.7	0.8	1.2	13.9	23+	-13.9	12+	0	28	-3.9	73	33	11	16	4	0	193	178	0.6	30	18.8	NE	19	9	11	11	5.8	66
KENTUCKY																																
COVINGTON	265	986.5	1018.9	5.5	-3.3	1.1	1.6	19.4	29	-14.4	13	0	23	-2.2	79	103	18	40	16	2	51	T	2.1	23	13.4	22	10	2	8	21	7.9	
LEXINGTON	294	983.4	1019.6	7.6	-1.7	2.9	2.4	20.6	29	-13.9	13	0	20	-1.1	73	93	-7	25	16	1	117	51	1.8	20	12.5	22	25	4	12	15	7.1	
LOUISVILLE	145	1001.0	1019.0	7.9	-1.2	3.4	2.7	22.8	29	-10.6	13	0	20	-1.1	73	124	34	37	12	2	76	51	1.4	23	18.8	SW	25	3	12	16	7.5	41
LOUISIANA																																
ALEXANDRIA	28	1015.6	1019.7	17.8	5.6	11.7	3.0	27.2	29	-6.7	13	0	7	7.8	78	100	-19	26	10	3	8	T	0.3	16	13.0	18	10	10	7	14	5.9	
BATON ROUGE	20	1017.6	1020.2	19.3	7.1	13.2	2.6	27.2	31+	-3.9	14	0	7	8.9	78	197	86	104	8	3	T	0	1.1	13	15.6	23	10	6	7	18	6.8	
LAKE CHARLES	3	1018.3	1019.5	18.7	8.7	13.7	2.4	25.6	29+	-4.4	13	0	3	10.0	83	154	51	69	9	5	0	0	1.4	10	16.5	16	10	7	5	19	6.8	
NEW ORLEANS	1	1019.0	1020.0	19.6	8.4	14.0	2.4	26.7	29+	-3.9	14	0	3	11.1	84	75	-40	27	13	1	0	0	0.8	9	20.6	21	10	7	9	15	6.5	53
SHREVEPORT	77	1009.8	1019.3	16.4	3.8	10.1	1.7	27.8	29+	-8.9	13	0	9	5.0	73	116	13	30	12	4	86	51	0.8	18	13.0	30	10	10	3	18	6.2	52
MAINE																																
CARIBOU	190	991.2		-6.8	-18.1	-12.4	-0.6	3.9	12	-33.9	21	0	30			69	17	27	18		792	584						5	8	18	7.1	
PORTLAND	13	1014.9	1017.3	2.4	-8.3	-2.9	2.9	9.4	12	-22.2	18	0	26	-8.3	69	112	26	26	12	0	391	203	1.7	30	15.2	SW	18	8	8	15	6.6	51
MARYLAND																																
BALTIMORE	45	1014.2	1019.9	8.4	-1.3	3.6	2.8	23.9	29	-10.6	15	0	20	-2.2	68	88	14	16	15	0	150	51	1.8	28	18.8	W	26	3	11	17	7.2	48
MASSACHUSETTS																																
BLUE HILL OBS R	192			3.2	-4.4	-0.6	2.6	15.0	11	-13.3	21	0	25			156	52	37	10		130	76			29.1	NW	29					53
BOSTON	5	1016.9	1017.8	5.2	-2.0	1.6	3.2	16.7	11	-11.7	21	0	19	-5.0	66	145	51	37	12	0	56	25	2.8	29	17.9	W	29	10	7	14	6.3	54
WORCESTER	301	978.7		1.6	-6.7	-2.5	2.2	13.3	11	-17.2	21	0	30	-6.7	73	136	51	32	12	0	574	279	2.6	29	15.6	29	30+	6	11	14	6.7	
MICHIGAN																																
ALPENA	210	988.5	1014.6	-0.6	-10.1	-5.3	2.6	8.9	11	-26.1	20	0	30	-10.0	68	54	12	21	12	0	356	178	2.1	23	16.1	SW	11	1	7	23	8.4	34
DETROIT	189			2.6	-3.7	-0.5	3.1	13.9	11	-12.2	20	0	26	-6.1	65					1			3.3	22	15.6	20	11					
DETROIT METRO	193	991.9	1016.6	1.4	-5.6	-2.1	2.1	11.7	10	-14.4	20	0	28	-5.6	77	74	25	23	12	1	124	51	3.9	24	21.5	SW	11	1	6	24	8.6	29
FLINT	235	986.5	1015.4	1.6	-6.1	-2.2	3.2	13.3	11	-18.3	20	0	27	-6.1	73	73	30	24	13	1	173	127	3.0	24	14.3	23	11	1	1	29	9.2	
GRAND RAPIDS	239	985.4	1015.5	0.1	-7.7	-3.8	1.1	13.9	10	-18.9	20	0	28	-6.1	81	111	61	46	15	3	272	102	2.7	22	24.1	SW	11	1	1	29	9.4	25
HOUGHTON LAKE	350	970.9	1014.5	-1.4	-9.8	-5.6	2.6	8.9	11	-22.8	20	0	31	-8.3	80	50	13	23	12	2	300	203	2.2	24	15.6	22	11	0	6	25	8.8	
LANSING	254	983.1	1015.8	1.4	-6.8	-2.7	2.5	12.8	10	-22.2	20	0	27	-5.0	83	70	22	22	12	1	112	127	3.3	21	24.1	SW	11	1	0	30	9.3	35
MARQUETTE	204			-2.8	-10.1	-6.4	1.1	7.8	11	-20.0	12	0	30			72	33	23	21		881	508			20.1	SW	11	1	7	23	8.5	38
MUSKEGON	191	991.5	1015.5	1.0	-5.3	-2.2	2.3	14.4	10	-12.8	20	0	28	-5.6	79	91	34	33	18	2	478	254	2.5	24	19.2	23	11	0	0	31	9.8	
SAULT STE MARIE	220	985.8	1013.6	-4.3	-13.3	-8.8	1.1	5.0	11	-30.0	22	0	31	-11.7	77	83	34	19	23	0	1062	559	0.7	14	15.2	S	11	2	4	25	8.9	31
MINNESOTA																																
DULUTH	435	960.0	1013.9	-7.6	-17.3	-12.4	0.6	0.6	11+	-31.1	22	0	31	-14.4	81	94	64	44	19	1	831	813	1.7	27	20.1	W	11	4	7	20	7.8	35
INTERNATIONAL FALLS	359	968.5	1014.1	-8.8	-19.7	-14.3	2.4	0.0	2	-35.6	21	0	31	-19.4	63	77	55	38	16	0	1092	838	0.8	25	13.4	26	11	7	5	19	7.4	
MINNEAPOLIS	254	983.7	1015.6	-4.8	-14.7	-9.7	1.3	1.7	24	-25.6	22	0	31	-12.2	79	73	53	30	19	1	696	406	1.3	26	11.6	N	10	5	8	18	7.3	48
ROCHESTER	395	965.8	1015.9	-4.4	-14.9	-9.7	0.9	2.8	10	-25.0	20	0	31	-12.2	82	49	32	23	17	0	358	229	2.6	26	20.6	28	11	4	7	20	7.5	
ST CLOUD	313	976.3	1015.7	-5.8	-18.8	-12.3	0.6	0.6	24+	-31.1	22	0	31			61	41	19	19		759	584						5	6	20	7.2	
MISSISSIPPI																																
JACKSON	94	1008.1	1020.3	17.1	4.9	11.0	2.6	26.7	29+	-6.7	13	0	8	6.7	78	116	1	36	10	2	T	0	0.9	19	13.0	NW	19	9	7	15	6.0	62

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure		Temperature								No of days				Precipitation			No of days		Snow, Ice pellets		Wind		Fastest mile (1.6 kilometers)			No of days (sunrise to sunset)				
		Station Q	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min 0 C or lower	Average dew point	Average relative humidity	Total	Departure from normal	Greatest in 24 hours	25 mm or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m s		m s							%
MISSISSIPPI																																
MERIDIAN	88	1009.5	1020.7	16.9	3.5	10.2	1.9	25.0	28	-7.2	14	0	8	5.6	78	213	103	63	9	4	0	0	0.4	21	13.4	25	10	9	5	17	6.6	
MISSOURI																																
COLUMBIA REGIONAL	270	985.1	1018.3	4.6	-5.3	-0.3	1.2	16.7	29	-18.3	20	0	28	-3.9	79	86	46	38	9	2	76	51	1.5	23	20.1	SW	10	6	7	18	6.9	45
KANSAS CITY	309	979.3	1017.6	3.7	-6.1	-1.2	1.2	12.8	18+	-17.8	20	0	28	-5.6	73	54	23	24	7	1	137	102	1.2	25	16.5	SW	25	9	4	18	6.2	58
ST JOSEPH	247			3.2	-6.4	-1.6	1.7	11.7	18	-16.7	12	0	31	-6.7	68	35	8		4				0.9	28	13.0	30	10	8	5	18	6.5	
ST LOUIS	163	997.6	1018.5	5.6	-4.2	0.7	1.1	18.9	29	-15.0	20	0	24	-2.2	82	137	90	62	14	4	104	51	1.4	24	17.0	W	25+	6	5	20	6.8	48
SPRINGFIELD	386	971.6	1018.3	8.6	-3.7	2.4	1.9	19.4	29	-13.9	20	0	22	-3.9	67	100	58	57	10	2	10	T	1.4	22	15.2	NW	25+	10	11	10	5.6	62
MONTANA																																
BILLINGS	1087	888.9	1016.9	0.0	-9.4	-4.7	0.9	10.0	20	-24.4	31	0	29	-12.8	55	52	34	32	12	1	528	381	4.7	25	19.2	SW	12	6	11	14	6.8	47
GLASGOW	696	930.9	1016.0	-1.6	-13.4	-7.5	5.2	8.3	23	-27.2	11	0	31	-12.2	70	3	-7	1	5	0	38	25	1.3	33	17.0	32	11	7	13	11	6.0	
GREAT FALLS	1116	885.5	1017.5	0.2	-10.6	-5.2	1.2	10.6	23	-26.7	11+	0	30	-10.0	68	29	7	12	10	0	335	152	5.7	23	20.1	SW	20+	4	7	20	7.6	34
HAVRE	788	920.8	1016.0	-0.2	-13.1	-6.7	4.8	10.6	23	-28.9	10	0	31	-11.7	68	3	-10	1	7	0	56	25	3.0	25	13.9	W	12	5	7	19	7.3	34
HELENA	1167	879.4	1019.6	-0.7	-11.4	-6.1	1.7	11.1	23	-30.6	31	0	29	-12.2	63	32	18	19	7	0	386	305	2.0	27	18.8	W	20	5	2	24	7.9	33
KALISPELL	904	911.3	1019.7	-2.3	-13.0	-7.7	-0.5	6.1	20	-28.3	11	0	31	-11.1	72	50	11	10	16	0	523	279	0.5	20	11.2	1	11	2	3	26	8.7	
MILES CITY	801	919.7	1016.1	0.1	-11.0	-5.4	3.8	9.4	23	-26.7	11	0	31	-9.4	75	21	8		9	0	142		2.2	28								
MISSOULA	972	904.5	1020.4	-1.2	-9.1	-5.2	1.1	6.7	18	-26.7	31	0	31	-7.8	80	52	22	13	19	0	429	203	0.4	32	14.8	NW	20	2	2	27	8.8	21
NEBRASKA																																
GRAND ISLAND	561	948.5	1017.4	-0.3	-10.1	-5.2	0.2	5.0	23+	-22.2	12+	0	31	-8.3	78	22	9	12	4	0	211	203	1.5	28	17.9	35	10	7	9	15	6.2	
LINCOLN	360	972.9	1017.2	-0.3	-11.2	-5.7	-0.3	6.1	18	-20.6	12	0	31	-8.3	77	40	25	19	5	0	371	229	1.3	30	16.1	NW	10	9	7	15	6.4	53
NORFOLK	471			-0.6	-12.1	-6.3	1.0	5.6	23+	-21.1	16	0	31			32	16	10	7		394	254						9	6	16	6.3	
NORTH PLATTE	846	916.0	1017.1	3.0	-10.1	-3.5	1.3	15.0	20	-18.3	12+	0	31	-8.9	68	7	-5	3	5	0	56	51	1.8	31	17.0	NW	20	8	8	15	6.5	57
OMAHA	298	980.4	1017.3	0.7	-11.3	-5.3	-0.1	7.2	18	-22.8	12	0	31	-8.3	77	51	32	26	8	0	577	330	0.9	30	16.5	NW	25+	8	7	16	6.5	45
SCOTTSBLUFF	1206	876.7	1016.8	4.3	-10.3	-3.0	0.9	13.9	18	-21.1	12	0	31	-10.6	61	8	0	3	9	0	150	51	3.4	31	23.7	34	18	6	11	14	6.5	
VALENTINE	789			1.7	-10.3	-4.3	2.2	10.0	20+	-21.7	11	0	31			13	5	6	8		147	76			18.8	NW	11	8	7	16	6.5	72
NEVADA																																
ELKO	1539	847.3	1025.1	-0.4	-14.2	-7.3	-2.4	10.0	25	-25.6	1	0	30			45	16	15	7	1	368	178	0.8	24	13.9	23	26	7	11	13	6.3	
ELY	1906	809.3	1021.9	4.7	-13.6	-4.4	0.3	15.0	25	-23.3	1	0	31	-10.6	68	19	3	7	11	1	254	152	1.6	20	13.4	N	10	11	7	13	5.7	77
LAS VEGAS	659	942.8	1020.8	14.1	0.6	7.4	0.6	25.0	26	-3.3	4	0	15	-9.4	33	T	-11	T	1	0	0	0	1.5	30	16.1	NW	2	14	14	3	3.8	86
RENO	1342	868.9	1022.7	8.4	-8.1	0.2	0.2	19.4	25	-22.2	2	0	30	-6.1	69	8	-23	6	4	0	69	51	0.2	25	16.1	W	4	10	8	13	5.7	70
WINNEMUCCA	1311	871.7	1023.4	4.5	-9.6	-2.6	-0.4	16.1	25	-28.3	1	0	30	-7.8	71	26	1	8	8	0	178	152	0.4	15	15.2	NW	4	6	13	12	6.3	55
NEW HAMPSHIRE																																
CONCORD	104	1004.7	1017.9	0.5	-12.1	-5.8	0.6	10.0	12	-29.4	21	0	30	-8.3	80	105	37	27	12	0	495	406	1.4	30	17.9	NW	30	7	10	14	7.0	51
MT WASHINGTON OBS	1909			-9.4	-17.8	-13.6	1.0	4.4	11	-33.3	17	0	31			346	216	95	23	1	2050	559			58.6Y	W	29	2	7	22	8.0	29
NEW JERSEY																																
ATLANTIC CITY	20	1016.9	1019.4	8.1	-2.4	2.9	2.5	20.0	29	-9.4	17	0	22	0.0	80	151	60	31	15	0	84	51	2.3	29	16.5	30	30	2	11	18	7.4	40
ATLANTIC CITY U	3			6.7	-0.7	3.0	1.4	16.7	29	-8.9	15	0	20			109	23	25	16						23.2	NW	29					
NEWARK	2	1017.6	1018.7	6.6	-1.2	2.7	3.1	18.9	11	-11.1	21	0	18	-2.8	70	101	27	20	14	1	36	25	2.0	29	12.5	26	26	3	13	15	7.1	
TRENTON U	17			6.6	-0.9	2.9	2.8	18.3	11	-11.7	21	0	18			111	41	19	14		1.4	51			17.4	NW	29	7	10	14	6.3	47
NEW MEXICO																																
ALBUQUERQUE	1619	838.5	1020.3	6.1	-7.4	-0.7	-2.4	20.0	26	-17.2	4	0	27	-8.9	60	7	-1	4	4	0	23	25	1.2	1	25.0	E	21	15	3	13	4.7	73
CLAYTON	1515			7.9	-6.9	0.5	-0.1	21.7	26	-21.7	12	0	31			10	3	4	6		165	76						12	6	13	5.3	
ROSWELL	1112	889.9	1016.8	13.2	-2.9	5.2	1.8	27.8	26	-11.1	12	0	25			5	-5	3	4	0	38	51	1.3	29	18.3	N	24	17	7	7	3.9	
NEW YORK																																
ALBANY	84	1007.8	1018.8	1.8	-8.8	-3.5	2.3	13.9	11	-22.2	21	0	28	-6.7	77	70	14	20	13	0	356	203	1.6	25	20.1	NW	30	2	10	19	7.9	37
BINGHAMTON	485	957.0	1018.0	-0.2	-7.7	-3.9	1.6	16.7	11	-20.6	21	0	30	-6.7	80	65	6	19	19	0	399	254	2.3	24	17.0	W	29	1	7	23	8.4	29
BUFFALO	215	990.2	1016.8	2.7	-4.8	-1.1	3.6	15.0	11	-13.9	20	0	25	-5.0	77	54	-20	18	16	1	279	127	3.9	24	21.0	W	25	0	8	23	8.6	29
NEW YORK U	40	1015.2	1018.5	6.3	-0.4	2.9	2.8	17.2	11	-9.4	21	0	16	-2.8	71	121	52	21	14	0	51	25	1.5	34	13.0	WSW	26					37
NEW YORK KENNEDY	4	1018.0	1018.8	6.7	-0.1	3.3	3.6	15.6	12	-8.3	21	0	14	-3.3	65	128	60	22	13	0	15	25	2.7	29	16.5	25	26	3	13	15	7.0	
NEW YORK LA GUARDIA	3	1017.6	1018.8	6.1	-0.4	2.8	2.8	16.7	11	-10.0	21	0	17	-2.8	68	114	41	22	14	0	46	25	2.2	28	20.1	W	30	3	11	17	7.3	
ROCHESTER	167	995.9	1016.8	2.3	-5.2	-1.4	3.1	17.2	11	-15.0	21	0	27	-5.6	74	46	-11	15	17	1	274	76	3.3	24	22.4	SW	29	2	4	25	8.6	32
SYRACUSE	125	1002.0	1017.6	3.0	-5.9	-1.4	3.2	19.4	11	-17.8	20	0	27	-5.0	77	65	-4	23	14	0	300	203	1.8	24	17.4	SW	29	2	3	26	8.5	31
NORTH CAROLINA																																
ASHEVILLE	652	942.4	1020.2	12.0	-1.2	5.4	2.1	25.6	31	-10.6	15+	0	20	-0.6	72	98	12	34	10	1	10	T	1.1	33	17.9	34	1	9	7	15	6.2	59

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation, ground	Pressure		Temperature								No. of days		Average dew point	Average relative humidity	Precipitation			No of days		Snow, Ice pellets		Wind		Fastest mile (1.6 kilometers)			No of days (sunrise to sunset)			Sky cover, tenths (sunrise to sunset)	Possible sunshine
		Station	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min 0 C or lower			Total	Departure from normal	Greatest in 24 hours	25 mm or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10		
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m s		m s							%
NORTH CAROLINA																																
CAPE HATTERAS R	[illegible]	1020.3	1020.6	15.2	5.9	10.6	3.2	21.7	31	-3.3	16	0	3	7.2	80	111	3	38	13	0	0	0	1.6	30	11.2	36	21+	10	4	17	6.2	37
CHARLOTTE	224	992.6	1020.4	12.8	1.8	7.3	1.7	25.0	31	-5.6	14	0	12	1.7	73	156	67	51	13	1	0	0	1.1	25	15.2	SW	25	5	7	19	7.0	54
GREENSBORO	273	987.8	1020.3	11.9	0.2	6.1	2.3	25.6	29	-8.3	15	0	16	0.6	72	135	53	41	14	1	T	0	0.7	25	14.8	SW	26	7	6	18	7.0	49
RALEIGH	13	1004.4	1020.5	12.9	0.2	6.6	1.8	23.9	29	-8.3	15	0	18	1.7	75	155	73	42	11	0	T	0	0.8	25	13.9	27	26	7	6	18	6.7	49
WILMINGTON	[illegible]	1019.6	1020.9	16.8	4.3	10.6	2.6	27.8	31	-3.3	15	0	6	6.7	80	129	48	28	12	0	0	0	0.7	26	15.2	W	26+	10	6	15	6.0	51
NORTH DAKOTA																																
BISMARCK	502	952.9	1015.8	-3.9	-17.4	-10.6	2.6	5.6	20	-26.1	11	0	31	-13.9	75	13	1	9	9	0	160	178	2.5	31	24.1	NW	11	6	6	19	7.0	52
FARGO	273	981.0	1015.5	-6.3	-15.7	-10.9	3.6	2.2	24+	-25.6	21+	0	31	-13.9	83	34	21	8	16	0	465	203	1.3	28	25.0	N	11	7	5	19	7.1	38
WILLISTON	579	944.5	1016.3	-4.2	-18.0	-11.1	2.1	4.4	20	-30.0	11	0	31	-13.9	79	4	-11	[illegible]	7	0	91	76	2.1	29	17.0	NW	20	6	9	16	6.7	50
OHIO																																
AKRON	364	972.2	1018.2	3.7	-3.8	0.0	3.2	17.8	29	-13.9	15+	0	25	-3.9	77	96	28	39	19	1	244	51	2.9	22	14.3	24	25	4	6	21	7.9	
CINCINNATI ABBE OB	[illegible]			6.4	-1.4	2.6	2.5	18.9	29	-10.0	14	0	19			77	-10	26	12						13.9	W	29					33
CLEVELAND	237	987.8	1017.8	3.5	-3.7	-0.1	2.8	17.2	29	-12.2	15	0	26	-4.4	75	78	13	25	17	1	246	76	3.4	23	19.2	SW	11	2	4	25	8.6	30
COLUMBUS	247	988.2	1019.1	4.3	-3.7	0.3	2.3	18.3	29	-12.2	13	0	24	-3.9	74	82	9	15	18	2	216	51	2.4	22	16.1	SW	25	1	10	20	8.3	26
DAYTON	[illegible]	981.4	1018.4	4.7	-3.2	0.7	2.9	17.8	29	-13.3	13	0	25	-3.9	72	91	21	21	16	2	218	76	2.5	23	17.0	SW	11	4	6	21	7.9	35
MANSFIELD	395			2.4	-4.8	-1.2	1.0	15.6	29	-16.1	13	0	29	-3.3	84	85	25	24	18	1	257	76	3.8	22	15.6	19	11	3	7	21	8.4	
TOLEDO	214	991.2	1017.2	2.5	-5.6	-1.6	2.4	15.0	29	-16.1	15	0	28	-5.0	75	65	12	21	14	1	137	76	3.0	23	18.8	W	29	3	4	24	8.3	36
YOUNGSTOWN	354	973.9	1018.0	2.1	-4.1	-1.0	2.5	15.6	29	-14.4	20	0	24	-5.0	73	80	5	31	17	1	168	51	2.8	23	15.6	25	25	3	6	22	8.4	
OKLAHOMA																																
OKLAHOMA CITY	392	970.9	1018.4	10.7	-1.6	4.6	1.9	17.8	9+	-11.7	13	0	17	-2.8	65	51	22	28	5	2	15	25	0.2	31	21.9	N	19	14	5	12	5.1	81
TULSA	198	993.9	1018.7	10.6	-1.9	4.4	1.8	20.6	27	-11.1	13	0	18	-2.2	68	64	30	49	6	1	T	0	0.8	24	20.6	S	5	13	4	14	5.3	54
OREGON																																
ASTORIA	[illegible]	1018.3	1019.0	8.7	3.4	6.1	1.3	12.2	16	-3.9	27	0	[illegible]	3.9	86	384	139	74	25	1	8	T	1.2	18	17.9	24	4+	0	6	25	9.0	
BURNS	1265			1.8	-9.6	-3.8	-0.1	11.7	24	-18.3	2	0	30			39	-6	18	7		404	305			20.6Y	NW	8	5	7	19	7.4	
EUGENE	109	1007.1	1020.9	10.9	4.4	7.7	3.6	19.4	17	-3.3	29	0	8	5.6	88	176	-15	41	16	1	102	76	2.2	17	16.1	22	7	1	3	27	9.0	
MEACHAM	1234	876.7	1020.7	0.2	-5.7	-2.7	0.5	7.8	19+	-14.4	30	0	27			230	120	55	19		[illegible]	1067			11.2	28	4	5	1	25	8.4	
MEDFORD	396	974.6	1023.7	5.1	0.0	2.6	0.0	15.0	25	-5.6	30	0	15	0.0	86	67	-23	22	13	0	168	127	0.3	30	13.4	16	31	0	3	28	9.4	
PENDLETON	452	965.1	1019.9	6.3	-0.7	2.8	2.8	15.0	18+	-11.1	11	0	15	-1.1	76	90	49	29	17	0	422	178	1.6	24	17.4	26	4	3	5	23	8.3	
PORTLAND	6	1018.6	1019.9	8.2	2.3	5.3	1.9	15.0	17	-3.3	30	0	12	2.2	83	214	65	51	20	0	T	T	1.8	17	16.5	SE	31	0	3	28	9.3	22
SALEM	61	1012.9	1020.2	9.2	2.6	5.9	2.1	16.1	18+	-6.1	30	0	9	2.2	78	126	-49	41	19	0	41	25	2.8	19	13.4	26	7	0	5	26	9.2	
SEXTON SUMMIT R	1169	885.9	1021.0	5.3	-0.5	2.4	1.0	17.2	19	-7.8	30+	0	16	-1.7	79	104	-60	26	14		617	229			16.5	20	3	2	5	24	8.5	
PACIFIC AREA																																
GUAM TAGUAC R	11			28.4	22.6	25.5	0.3	29.4	6	19.4	25+	0	0			244	115	56	26		0	0			13.0	E	25					63
JOHNSTON	[illegible]	1011.9	1012.4	26.8	22.6	24.7	-0.2	27.2	28+	18.3	29	0	0	20.0	74	38	-28	9	12	0	0	0	5.8	8	15.2	E	4+	19	10	2	3.5	74
KOROR R	[illegible]	1005.1		30.3	23.8	27.1	-0.2	32.8	1	22.2	22	3	0			439	165	180	27	0	0	0	3.4	5	19.2	NW	22	0	6	25	9.0	63
KWAJALEIN	[illegible]			29.9	25.3	27.7	0.3	30.6	28+	23.3	25	0	0			27	-68	9	12	0	0	0			11.6	9	25	0	4	27	9.3	
MAJURO	3	1008.1		28.8	24.9	26.9	-0.2	29.4	18+	22.8	31	0	0			13[illegible]	-96	49	16		0	0	6.4	7	13.0	E	7	0	4	27	9.2	62
PAGO PAGO	4	1006.4	1006.6	29.9	23.9	26.9	0.1	32.2	24+	21.7	4	2	0	23.9	83	562	250	168	24	3	0	0	2.8	35	21.9	N	28	0	6	25	8.8	47
PONAPE R	37			30.5	24.8	27.7	0.7	31.7	16+	22.2	3+	0	0			168	-131	81	17	0	0	0			8.9	NE	25+	0	0	31	9.5	63
TRUK MOEN ISLAND	[illegible]	1008.8		29.7	25.3	27.6	0.3	31.1	1	23.3	31+	0	0			94	-124	33	17	0	0	0	5.1	6	12.1	E	6	0	1	30	9.8	63
WAKE	3	1014.2	1014.6	27.7	21.5	24.6	-0.4	29.4	5+	20.0	26+	0	0	19.4	75	22	-5	14	12	0	0	0	5.2	7	17.0	NE	9	13	14	4	4.5	64
YAP R	17	1007.5		29.5	23.9	26.7	-0.2	31.1	28	22.8	22+	0	0			495	280	189	26	1	0	0	4.4	7	14.8	NE	21	1	9	21	7.9	81
PENNSYLVANIA																																
ALLENTOWN	118	1004.7	1019.3	3.8	-4.3	-0.2	2.1	18.9	11	-17.8	21	0	27	-4.4	75	131	55	23	15	1	211	76	2.1	29	17.0	30	29	3	12	16	7.4	
ERIE	[illegible]	[illegible]	1017.7	2.2	-4.6	-1.2	2.7	14.4	29	-16.7	20	0	26	-4.4	79	76	13	25	20	1	450	203	3.9	22	12.5	17	18+	1	6	24	8.7	
HARRISBURG	[illegible]	1006.8	1019.9	4.6	-3.2	0.7	1.8	21.7	11	-13.9	21	0	22	-3.9	73	105	39	24	15	0	287	127	1.5	29	17.0	NW	29	2	12	17	7.3	43
PHILADELPHIA	[illegible]	1018.6	1019.5	7.1	-1.2	2.9	2.8	18.9	11	-9.4	21+	0	18	-2.2	70	102	30	19	16	0	99	51	1.8	29	16.5	NW	30+	6	9	16	7.1	46
PITTSBURGH	[illegible]	973.6	1018.8	4.1	-3.4	0.3	2.5	17.8	29	-13.3	15+	0	24	-5.0	69	85	14	36	19	1	257	102	2.5	25	21.0	24	25	5	5	21	7.7	29
SCRANTON	[illegible]	983.4	1018.6	3.7	-3.9	-0.1	3.2	18.9	11	-18.9	21	0	23	-5.6	68	71	19	21	17	0	348	76	1.7	24	16.1	S	11	0	10	21	8.3	30
WILLIAMSPORT	[illegible]	949.3	1019.2	3.3	-4.9	-0.8	1.9	18.3	11	-19.4	21	0	26	-5.6	72	97	26	21	15	0	391	203	1.1	28	16.5	29	29	2	10	19	7.8	
RHODE ISLAND																																
BLOCK ISLAND	34			5.8	-0.8	2.5	2.8	13.3	11	-10.0	18+	0	17			153	66	39	14		64	51										
PROVIDENCE	14	1015.6	1018.1	5.3	-2.9	1.2	3.2	16.1	11	-12.2	21+	0	22	-4.4	68	172	83	35	12	1	51	51	2.1	31	13.4	30	30+	6	10	15	6.5	50
SOUTH CAROLINA																																
CHARLESTON	12	1019.3	1021.2	17.7	6.4	12.1	2.9	27.2	31	-3.3	15	0	5	6.7	75	125	51	29	13	1	0	0	1.0	25	19.7Y	W	25	10	4	17	6.4	56

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station		Pressure		Temperature												Precipitation							Wind					No. of days (sunrise to sunset)				
												No. of days							No. of days		Snow, Ice pellets				Fastest mile (1.6 kilometers)							
	Elevation (ground)	Station Ø	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min. 0 C or lower	Average dew point	Average relative humidity	Total	Departure from normal	Greatest in 24 hours	25 mm. or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m s		m s							%
SOUTH CAROLINA																																
CHARLESTON U	3			16.7	7.9	12.3	2.3	26.7	31	-0.6	14	0	1			103	35	40	13		0	0			17.0	S	13					
COLUMBIA	65	1012.5	1020.7	17.5	4.2	10.9	3.4	28.9	31	-4.4	15	0	8	6.7	79	108	21	33	11	1	0	0	0.7	27	13.4	30	1	8	7	16	6.5	40
GRNVLLE-SPRTNBRG	292	985.1	1020.3	13.7	1.6	7.7	1.9	26.1	31	-6.7	14	0	14	1.7	72	138	34	33	13	2	T	0	1.0	27	13.0	W	25	10	7	14	6.2	53
SOUTH DAKOTA																																
ABERDEEN	395	966.8	1015.7	-2.1	-14.5	-8.3	4.2	8.3	24	-28.3	31	0	31	-12.2	76	21	7	8	12	0	371	127	1.5	29	18.3	32	11	11	5	15	6.1	
HURON	390	967.2	1015.9	-2.3	-14.7	-8.5	2.3	7.8	24	-25.6	31	0	31	-12.2	74	49	38	17	9	0	704	356	1.6	28	18.8	NW	10	9	7	15	6.3	54
RAPID CITY	964	901.8	1016.4	1.2	-10.4	-4.6	1.0	11.7	23	-22.2	11	0	31	-10.0	66	27	15	9	8	0	348	127	3.6	33	21.9	NW	2	8	6	17	6.3	56
SIOUX FALLS	432	962.8	1016.4	-2.7	-13.9	-8.3	1.6	5.0	1	-23.3	22	0	31	-11.7	77	34	20	10	14	0	465	254	1.9	29	20.1	31	11	9	4	18	6.7	
TENNESSEE																																
BRISTOL	459	964.4	1020.0	10.4	-1.1	4.7	2.2	20.6	28	-10.0	14	0	21	0.0	76	106	14	27	15	1	46	25	0.9	27	13.0	25	25	8	5	18	6.9	
CHATTANOOGA	203	995.3	1020.6	11.7	0.2	5.9	1.4	22.2	28	-9.4	14	0	17	0.0	69	143	6	52	11	1	T	T	1.0	25	17.0	SW	10	6	8	17	7.0	41
KNOXVILLE	299	984.8	1020.4	11.7	0.9	6.3	1.5	21.1	28+	-9.4	14	0	16	1.7	75	118	0	37	13	1	33	T	1.4	27	13.4	24	25	6	7	18	7.3	44
MEMPHIS	79	1009.8	1020.2	13.1	2.3	7.7	3.0	25.0	28	-8.3	13	0	12	1.7	68	118	-7	50	12	4	99	76	1.1	21	15.6	28	8	7	10	14	6.4	58
NASHVILLE	180	997.3	1019.6	11.8	0.8	6.3	2.8	24.4	29	-9.4	14	0	17	1.7	73	119	-2	60	12	2	107	76	1.8	21	18.8	S	10	4	12	15	7.0	42
OAK RIDGE R	276			10.7	-0.7	5.1	1.7	21.7	28	-8.9	14	0	20			149	16	44	13		28	T			16.5Y		26+	5	11	15	6.9	
TEXAS																																
ABILENE	544	953.9	1017.8	13.4	0.7	7.1	0.6	28.9	27	-12.8	13+	0	14	0.6	68	21	-5	12	5	2	152	152	1.5	24	19.2	N	19	15	3	13	5.0	63
AMARILLO	1098	890.3	1016.1	10.2	-4.6	2.8	0.6	25.6	26	-16.1	12	0	28	-5.6	63	7	-7	4	6	0	97	51	1.8	27	18.3	36	19	17	6	8	3.9	74
AUSTIN	182	996.3	1018.4	18.2	5.6	11.9	2.1	28.9	25	-6.7	13	0	7	5.6	71	28	-20	13	7	0	T	T	0.3	27	16.1	NW	19	13	6	12	5.2	58
BROWNSVILLE	6	1017.6	1018.1	22.2	10.7	16.5	0.8	28.3	31	-4.4	13	0	3	11.7	78	15	-19	11	6	0	0	0	0.9	17	17.4	S	9	9	5	17	6.2	48
CORPUS CHRISTI	12	1016.9	1018.3	21.6	9.2	15.4	1.9	28.9	26	-7.8	13	0	3	11.1	81	49	9	35	10	0	0	0	1.3	11	17.9	N	12	11	7	13	5.6	52
DALLAS - FORT WORTH	168	997.0	1018.5	15.0	3.8	9.4	2.3	27.2	27	-8.3	13	0	7	2.2	66	85	39	61	9	3	T	0	0.8	25	16.5	36	19	12	8	11	5.1	
DEL RIO	313	981.4	1018.0	18.6	4.8	11.7	1.3	30.6	26	-7.2	13	0	6	3.9	65	13	-2	6	5	1	0	0	0.7	1	13.0	32	10	15	8	8	4.5	
EL PASO	1194	883.5	1017.9	13.8	-1.6	6.2	-0.3	24.4	26	-9.4	13	0	21	-3.3	59	18	8	6	7	0	56	51	1.0	27	21.5	SW	10	16	7	8	3.7	76
GALVESTON	2			17.7	11.9	14.8	2.7	23.3	8	-1.7	13	0	1			85	9	27	9		0	0			14.3	SE	9					57
HOUSTON INTERCON	29	1015.6	1019.4	20.3	7.4	13.8	2.7	28.9	26	-6.1	13	0	6	9.4	79	50	-41	12	11	1	T	T	0.5	11	13.4	34	10	11	6	14	6.0	47
LUBBOCK	992	903.8	1017.1	12.4	-2.7	4.9	0.9	25.6	26	-12.8	12	0	23	-3.9	61	10	-4	4	7	0	43	25	1.9	28	19.2	35	19+	18	4	9	4.0	68
MIDLAND	869	917.0	1016.8	14.6	0.8	7.7	1.3	26.1	27+	-7.2	12	0	13	-2.2	56	21	6	12	4	0	10	T	1.7	28	17.9	35	19	14	4	13	4.6	
PORT ARTHUR	5	1018.6		18.8	8.0	13.4	2.3	25.6	31+	-6.1	13	0	3			139	36	41	10	2	0	0	1.4	11	20.1	NW	10	9	4	18	6.6	51
SAN ANGELO	580	950.6	1018.5	14.9	1.2	8.1	0.1	30.0	27	-9.4	13	0	14	1.1	68	9	-11	3	6	0	38	51	1.3	25	12.5	30	9	16	5	10	4.5	
SAN ANTONIO	240	989.8	1018.3	18.9	4.6	11.8	1.4	30.6	26	-9.4	13	0	9	4.4	66	26	-16	13	6	0	T	0	0.4	35	18.8	N	19	13	6	12	5.2	54
VICTORIA	32	1014.6	1018.6	21.0	8.8	14.9	2.9	28.9	26	-6.1	13	0	4	9.4	76	24	-20	6	9	0	T	0	0.5	13	21.5Y	N	10	9	8	14	5.9	
WACO	153	1000.3	1018.7	14.8	3.5	9.2	0.8	25.6	27	-7.8	13	0	8	3.9	75	36	-12	19	10	1	25	25	1.0	22	16.5	34	19	11	7	13	5.5	
WICHITA FALLS	303	981.0	1018.5	13.2	0.0	6.6	1.3	25.0	27	-8.3	13	0	16	-1.1	63	23	-4	17	5	3	T	0	0.8	30	20.1	35	19	14	6	11	4.9	
UTAH																																
MILFORD	1533	848.0		4.1	-12.8	-4.3	-0.8	18.9	25	-25.0	3	0	31			9	-7	4	6		157	51			18.8	SW	26	10	14	7	5.4	72
SALT LAKE CITY	1286	874.7	1023.2	2.3	-7.4	-2.6	-0.3	13.3	26	-16.1	12	0	28	-6.7	74	33	0	14	14	1	318	127	1.3	17	17.0	NW	8	4	11	16	7.4	64
WENDOVER	1291	874.0	1023.6	1.9	-7.9	-2.9	-0.4	16.7	25	-14.4	1	0	30			8	0	4	6		64	T						11	11	9	5.2	
VERMONT																																
BURLINGTON	101	1005.1	1018.0	0.0	-9.3	-4.7	3.8	11.1	11	-22.2	23+	0	26	-8.9	70	56	12	2[illegible]	15	0	376	279	1.3	18	17.0	S	21	4	5	22	8.1	43
VIRGINIA																																
LYNCHBURG	279	985.4		9.4	-1.9	3.7	1.2	23.9	29+	-11.1	15	0	19			97	27	21	15		165	127			12.1	SW	26	6	9	16	6.6	46
NORFOLK	7	1019.3	1020.2	13.1	2.4	7.8	3.1	24.4	29	-5.0	15	0	13	3.3	76	106	21	32	11	0	8	T	1.4	30	14.3	22	25	8	8	15	6.6	
RICHMOND	50	1013.5	1020.3	10.9	-1.3	4.8	1.8	25.0	29	-8.9	21+	0	19	0.0	74	145	72	45	13	0	69	76	0.5	27	17.9	NW	1	5	8	18	7.3	53
ROANOKE	358	977.0	1019.8	9.7	-1.3	4.2	1.8	23.9	29	-10.6	15	0	20	-2.8	64	91	22	23	14	0	117	51	1.3	29	15.6	31	1	7	8	16	6.6	
WALLOPS ISLAND	3			9.1	0.2	4.7	2.3	21.1	29	-6.7	15	0	16			134	55	38	17		43	25			23.2Y	NW	1					
WASHINGTON																																
OLYMPIA	59	1010.8	1018.2	6.6	0.5	3.6	0.7	12.8	23	-7.2	27	0	15	1.1	86	246	45	42	23	0	183	102	1.9	21	11.6	26	8	1	3	27	9.1	
QUILLAYUTE	55	1009.8	1017.3	7.0	0.8	3.9	0.2	10.6	23+	-6.1	27	0	16	2.2	90	362	-9	89	26	1	196	25	0.4	14	13.9	W	8	2	1	28	9.0	8
SEATTLE U	6			7.5	3.3	5.4	1.1	13.9	23	-1.7	11	0	5			128	-4	30	23		25	T			17.4	SSW	8					
SEATTLE-TACOMA	122	1001.7	1018.4	6.2	1.3	3.8	0.3	11.7	23	-3.9	27	0	12	0.6	80	153	6	33	25	0	33	25	1.8	17	18.3	SW	8	0	6	25	8.9	17
SPOKANE	718	932.3	1018.9	-0.9	-8.4	-4.7	-1.0	4.4	18	-23.3	11	0	31	-6.1	86	64	2	16	19	0	785	356	1.6	20	21.0	SW	8	1	2	28	8.8	17
STAMPEDE PASS R	1206	877.1		-1.1	-5.4	-3.3	1.7	8.9	19	-15.0	11	0	27			607	279	105	28		2781	3505						1	2	28	9.1	
WALLA WALLA U	289			5.7	-1.2	2.3	1.5	15.6	18	-10.0	31	0	19			97	44	27	16		282	127			14.8	SW	4	2	3	26	8.6	18
YAKIMA	321	980.7	1020.3	3.2	-5.3	-1.1	1.4	13.9	18	-13.9	10	0	31	-4.4	79	58	24	18	14	0	417	203	1.4	28	12.5	22	8	6	4	21	7.6	

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station		Pressure		Temperature												Precipitation							Wind					No. of days (sunrise to sunset)				
												No. of days							No of days		Snow, Ice pellets				Fastest mile (1.6 kilometers)							
	Elevation (ground)	Station ⊙	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min. 0 C or lower	Average dew point	Average relative humidity	Total	Departure from normal	Greatest in 24 hours	25 mm or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m s		m s							%
WEST INDIES																																
SAN JUAN P.R.	-	1015.9	1018.3	27.5	22.4	24.9	0.8	29.4	16	18.9	8	0	0	17.8	65	68	-26	15	24	0	0	0	4.9	9	13.4	NE	24	4	21	6	5.7	69
WEST VIRGINIA																																
BECKLEY	763	928.9	1020.2	6.1	-3.6	1.3	1.6	17.8	29	-15.0	17+	0	22	-2.8	76	115	27	30	20	0	297	127	1.9	21	13.9	24	29	5	5	21	7.7	
CHARLESTON	286	984.8	1019.8	7.5	-3.4	2.1	0.7	21.1	29	-15.6	17	0	23	-2.8	71	123	37	35	18	1	460	203	1.2	24	15.6	26	25	4	7	20	7.5	
ELKINS	594	946.5		6.1	-6.9	-0.4	0.7	21.1	29	-22.2	17	0	26			106	22	19	18		429	178						2	10	19	7.7	
HUNTINGTON	252	988.5	1019.4	7.8	-2.0	2.9	1.7	21.1	29	-12.8	17	0	22	-1.7	73	105	25	25	17	1	313	229	1.1	24	15.6	27	25	2	11	18	7.7	
PARKERSBURG J	187			6.9	-2.3	2.3	1.8	21.7	29	-11.7	17	0	21			70	-8	13	19		124	76			16.1	W	29					39
WISCONSIN																																
GREEN BAY	208	987.8	1014.6	-2.1	-11.0	-6.5	2.7	8.9	10	-20.6	13	0	30	-10.0	76	39	11	14	13	0	218	152	2.6	25	26.4	SW	11	2	9	20	7.9	36
LA CROSSE	198	991.2	1016.8	-2.7	-12.8	-7.7	1.1	5.0	10	-23.3	31	0	30	-11.7	74	38	14		15	0	478		1.0	24								
MADISON	262	982.7	1015.5	-0.6	-10.6	-5.6	2.8	11.7	10	-21.1	20	0	30	-8.3	79	25	-7	9	12	1	132	76	2.0	25	19.7	SW	11	4	3	24	8.2	27
MILWAUKEE	205	989.5	1015.6	-0.6	-8.3	-4.4	2.6	11.1	10	-18.3	14	0	29	-8.9	71	57	16	32	15	3	89	51	3.6	25	24.1	SW	11	2	7	22	8.0	30
WYOMING																																
CASPER	1627	833.7	1017.2	-0.8	-11.3	-6.1	-1.2	9.4	18	-26.7	11	0	31	-11.1	66	13	0	4	14	0	262	102	5.5	23	16.1	22	12+	2	12	17	7.3	
CHEYENNE	1867	806.3	1015.3	2.1	-9.3	-3.6	-0.6	11.1	26	-22.2	11	0	29	-12.8	53	10	-2	4	7	0	147	51	5.5	30	29.5	NW	18	7	12	12	6.2	65
LANDER	1694	825.6	1018.1	0.8	-13.1	-6.2	0.7	11.7	18	-27.8	12+	0	31	-12.8	63	19	7	14	4	0	269	178	0.9	21	19.2	SW	20	6	12	13	6.6	62
SHERIDAN	1208	875.7	1017.4	1.2	-12.1	-5.4	0.7	10.6	20+	-26.7	11	0	30	-10.6	67	28	11	9	12	0	351	152	2.5	31	21.0	NW	24	4	8	19	7.2	46

HEATING DEGREE DAYS

(Base 65°F.)

JANUARY 1975

State and station	Current season		Normals
	This month	Period July through this month	July through this month
ALABAMA			
BIRMINGHAM	493	1591	1802
HUNTSVILLE	587	1861	2059
MOBILE	276	885	1086
MONTGOMERY	385	1272	1467
ALASKA			
ANCHORAGE	1643	6218	6523
ANNETTE	1062	3969	3965
BARROW	2841	12133	11078
BARTER ISLAND	2883	12665	10922
BETHEL	2060	8051	7562
BETTLES	2690	10037	9591
BIG DELTA	1840	10496	10159
COLD BAY	1252	5368	5383
FAIRBANKS	2497	8826	8891
GULKANA	2271	8109	8627
HOMER	1439	5728	5989
JUNEAU	1296	4895	5244
KING SALMON	1869	6904	6716
KODIAK	1220	5162	4921
KOTZEBUE	2323	9309	8803
MC GRATH	2470	9080	8834
NOME	2038	8600	7961
ST. PAUL ISLAND	1462	6475	5915
SUMMIT	2035	8318	8484
TALKEETNA	1888	6992	7014
UNALAKLEET	2091	4018	7987
YAKUTAT	1278	5072	5422
ARIZONA			
FLAGSTAFF	1150	3939	4033
PHOENIX	388	960	1015
TUCSON	465	1288	1095
WINSLOW	1192	3262	2896
YUMA	295	711	692
ARKANSAS			
FORT SMITH	718	2111	2108
LITTLE ROCK	630	1799	2105
CALIFORNIA			
BAKERSFIELD	559	1387	1404
BISHOP	787	2502	2558
BLUE CANYON	731	2533	2839
EUREKA U	587	2571	2555
FRESNO	661	1698	1641
LONG BEACH	254	699	844
LOS ANGELES	258	663	902
LOS ANGELES U	243	609	639
MT SHASTA R	947	3135	3255
OAKLAND	464	1339	1615
RED BLUFF	630	1754	1612
SACRAMENTO	661	1628	1678
SANDBERG R	689	2244	2248
SAN DIEGO	273	649	776
SAN FRANCISCO	540	1723	1663
SAN FRANCISCO U	428	1685	1681
SANTA MARIA	450	1542	1596
STOCKTON	716	1815	1684
COLORADO			
ALAMOSA	1802	5615	5048
COLORADO SPRINGS	1102	3657	3640
DENVER	1024	3459	3388
GRAND JUNCTION	1387	3636	3431
PUEBLO	1024	3193	3190
CONNECTICUT			
BRIDGEPORT	916	2749	2919
HARTFORD	1040	3488	3600
DELAWARE			
WILMINGTON	847	2632	2827
DIST.OF COLUMBIA			
WASHINGTON DULLES	956	2838	2924
WASHINGTON NATIONAL	740	2136	2481
FLORIDA			
APPALACHICOLA U	241	676	866
DAYTONA BEACH	108	378	550
FORT MYERS	33	118	284
JACKSONVILLE	223	763	845
KEY WEST	3	7	34
LAKELAND U	79	268	416
MIAMI	14	48	122
ORLANDO	73	276	442
PENSACOLA	253	746	1007
TALLAHASSEE	319	1045	1019
TAMPA	84	261	443
WEST PALM BEACH	18	89	183
GEORGIA			
ATHENS	528	1673	1858
ATLANTA	547	1735	1921
AUGUSTA	539	1683	1626
COLUMBUS	429	1334	1512
MACON	424	1301	1447
ROME	577	2618	2104
SAVANNAH	315	1007	1254
IDAHO			
BOISE	1132	3269	3437
LEWISTON	945	2872	3269
POCATELLO	1312	4113	4083
ILLINOIS			
CAIRO U	790	2286	2362
CHICAGO O HARE	1160	3517	3729
CHICAGO MIDWAY	1144	3419	3513
MOLINE	1235	3633	3747
PEORIA	1156	3505	3582
ROCKFORD	1277	3840	3967
SPRINGFIELD	1044	3156	3288
INDIANA			
EVANSVILLE	867	2673	2798
FORT WAYNE	1084	3479	3568
INDIANAPOLIS	1016	3223	3276
SOUTH BEND	1077	3259	3670
IOWA			
BURLINGTON	1194	3564	3618
DES MOINES	1308	3681	3927
DUBUQUE	1379	4140	4235
SIOUX CITY	1439	4004	4106
WATERLOO	1435	4214	4342
KANSAS			
CONCORDIA	1106	3151	3329
DODGE CITY	961	2856	2994
GOODLAND	1069	3530	3531
TOPEKA	1056	3046	3153
WICHITA	974	2738	2840
KENTUCKY			
COVINGTON	953	3027	2972
LEXINGTON	852	2729	2808
LOUISVILLE	830	2603	2770
LOUISIANA			
ALEXANDRIA	387	1184	1412
BATON ROUGE	308	932	1094
LAKE CHARLES	282	852	966
NEW ORLEANS	270	829	949
SHREVEPORT	473	1372	1390
MAINE			
CARIBOU	1717	5412	5397
PORTLAND	1177	3872	4134
MARYLAND			
BALTIMORE	818	2438	2745
MASSACHUSETTS			
BLUE HILL OBS R	1048	3390	3475
BOSTON	925	2910	3081
WORCHESTER	1158	3778	3801
MICHIGAN			
ALPENA	1312	4396	4655
DETROIT	1046	3226	3472
DETROIT METRO	1129	3664	3624
FLINT	1142	3724	3939
GRAND RAPIDS	1227	4027	3809
HOUGHTON LAKE	1327	4433	4648
LANSING	1166	3854	3878
MARQUETTE U	1376	4343	4532
MUSKEGON	1137	3693	3787
SAULT STE MARIE	1507	5017	5028
MINNESOTA			
DULUTH	1713	5582	5518
INTERNATIONAL FALLS	1815	5711	6113
MINNEAPOLIS	1561	4550	4730
ROCHESTER	1556	4651	4742
ST CLOUD	1704	5105	5136
MISSISSIPPI			
JACKSON	429	1287	1465
MERIDIAN	449	1316	1547
MISSOURI			
COLUMBIA REGIONAL	1034	3128	3027
KANSAS CITY	1084	3127	3086
ST JOSEPH	1103	3263	3266
ST LOUIS	979	2927	2846
SPRINGFIELD	878	2732	2747
MONTANA			
BILLINGS	1280	3975	4132
GLASCOW	1437	4466	5180
GREAT FALLS	1304	3932	4330
HAVRE	1388	4333	5058
HELENA	1355	4481	4751
KALISPELL	1445	4622	4988
MILES CITY	1323	4132	4599
MISSOULA	1302	4244	4659
NEBRASKA			
GRAND ISLAND	1302	3831	3781
LINCOLN	1338	3730	3688
NORFORK	1369	3942	4092
NORTH PLATTE	1216	4047	3933
OMAHA	1311	3658	3589
SCOTTSBLUFF	1183	3859	3893
VALENTINE	1256	3967	4196
NEVADA			
ELKO	1422	4214	4310
ELY	1262	4289	4355
LAS VEGAS	607	1596	1690
RENO	1006	3477	3456
WINNEMUCCA	1156	3836	3810
NEW HAMPSHIRE			
CONCORD	1339	4353	4162
MT WASHINGTON OBS	1777	7729	7722
NEW JERSEY			
ATLANTIC CITY	857	2675	2795
ATLANTIC CITY U	848	2571	2502
NEWARK	864	2590	2829
TRENTON U	858	2580	2805
NEW MEXICO			
ALBUQUERQUE	1051	2946	2657
CLAYTON	987	3155	2994
ROSWELL	729	2325	2386
NEW YORK			
ALBANY	1212	4000	3911
BINGHAMTON	1237	4091	4054
BUFFALO	1077	3511	3788
NEW YORK U	852	2536	2698
NEW YORK KENNEDY	833	2485	2819
NEW YORK LA GUARDIA	858	2557	2716
ROCHESTER	1096	3631	3703
SYRACUSE	1100	3681	3688
NORTH CAROLINA			
ASHEVILLE	715	2375	2535
CAPE HATTERAS R	425	1334	1500
CHARLOTTE	609	2028	1990
GREENSBORO	676	2161	2336
RALEIGH	651	2132	2146
WILMINGTON	429	1389	1497
NORTH DAKOTA			
BISMARCK	1612	5220	5244
FARGO	1630	5034	5374
WILLISTON	1635	4989	5332
OHIO			
AKRON	1015	3288	3528
CINCINNATI ABBE OB	878	2691	2863
CLEVELAND	1021	3313	3434
COLUMBUS	999	3066	3323
MANSFIELD	1085	3441	3318
TOLEDO	1104	3612	3656
YOUNGSTOWN	1069	3539	3614
OKLAHOMA			
OKLAHOMA CITY	763	2154	2283
TULSA	773	2191	2282
OREGON			
ASTORIA	678	2575	2892
BURNS U	1231	3957	4133
EUGENE	585	2029	2682
MEACHAM	1170	4095	4319
MEDFORD	873	2655	2852
PENDLETON	857	2567	3139
PORTLAND	722	2240	2748
SALEM	688	2399	2735
SEXTON SUMMIT R	883	3349	3372
PENNSYLVANIA			
ALLENTOWN	1027	3178	3332
ERIE	1081	3596	3720
HARRISBURG	977	2996	3066
PHILADELPHIA	852	2497	2789
PITTSBURGH	997	3136	3418
SCRANTON	1024	3285	3580
WILLIAMSPORT	1059	3288	3435
RHODE ISLAND			
BLOCK ISLAND	874	2713	2936
PROVIDENCE	951	3110	3278
SOUTH CAROLINA			
CHARLESTON	350	1222	1353
CHARLESTON U	334	1066	1177
COLUMBIA	417	1461	1650
GRNVLLE-SPRTNBRG	590	1961	1963
SOUTH DAKOTA			
ABERDEEN	1477	4494	5028
HURON	1489	4405	4699
RAPID CITY	1274	3927	4113
SIOUX FALLS	1476	4382	4585
TENNESSEE			
BRISTOL	755	2465	2598
CHATTANOOGA	686	2227	2181
KNOXVILLE	666	2056	2144
MEMPHIS	591	1714	2023
NASHVILLE	665	2058	2279
OAK RIDGE	736	2476	2407
TEXAS			
ABILENE	620	1778	1662
AMARILLO	853	2632	2508
AUSTIN	377	1105	1126
BROWNSVILLE	177	426	410
CORPUS CHRISTI	227	608	611
DALLAS FT WORTH	489	1367	1503
DEL RIO	375	1044	1061
EL PASO	672	1993	1796
GALVESTON	208	585	744
HOUSTON INTERCON	290	837	928
LUBBOCK	744	2268	2194
MIDLAND	582	1629	1692
PORT ARTHUR	297	931	981
SAN ANGELO	568	1506	1466
SAN ANTONIO	389	1103	1035
VICTORIA	244	692	795
WACO	507	1386	1321
WICHITA FALLS	644	1805	1835
UTAH			
MILFORD	1258	3872	3747
SALT LAKE CITY	1157	3195	3512
WENDOVER	1179	3494	3522
VERMONT			
BURLINGTON	1276	4159	4410
VIRGINIA			
LYNCHBURG	808	2522	2530
NORFORK	584	1768	2016
RICHMOND	746	2346	2363
ROANOKE	783	2515	2559
WALLOPS ISLAND	757	2320	2363
WASHINGTON			
OLYMPIA	817	2918	3140
QUILLAYUTE	797	3036	3276
SEATTLE	714	2322	2680
SEATTLE-TACOMA	804	2665	2932
SPOKANE	1276	3906	4026
STAMPEDE PASS R	1198	4705	5235
WALLA WALLA U	891	2566	2946
YAKIMA	1072	3278	3672
WEST VIRGINIA			
BECKLEY	946	3198	3268
CHARLESTON	899	2856	2740
ELKINS	1037	3687	3464
HUNTINGTON	851	2673	2747
PARKERSBURG U	886	2791	2836
WISCONSIN			
GREEN BAY	1381	4505	4589
LA CROSSE	1446	4180	4321
MADISON	1329	4071	4439
MILWAUKEE	1260	3867	4165
WYOMING			
CASPER	1352	4404	4227
CHEYENNE	1215	4138	3993
LANDER	1360	4543	4526
SHERIDAN	1317	4331	4374

COOLING DEGREE DAYS

(Base 65 F.)

State and station	Current season: This month	Current season: Period January through this month	Normals January through this month
ALABAMA			
BIRMINGHAM	8	8	9
HUNTSVILLE	0	0	0
MOBILE	21	21	23
MONTGOMERY	7	7	14
ALASKA			
ANCHORAGE	0	0	0
ANNETTE	0	0	0
BARROW	0	0	0
BARTER ISLAND	0	0	0
BETHEL	0	0	0
BETTLES	0	0	0
BIG DELTA	0	0	0
COLD BAY	0	0	0
FAIRBANKS	0	0	0
GULKANA	0	0	0
HOMER	0	0	0
JUNEAU	0	0	0
KING SALMON	0	0	0
KODIAK	0	0	0
KOTZEBUE	0	0	0
MC GRATH	0	0	0
NOME	0	0	0
ST. PAUL ISLAND	0	0	0
SUMMIT	0	0	0
TALKEETNA	0	0	0
UNALAKLEET	0	0	0
YAKUTAT	0	0	0
ARIZONA			
FLAGSTAFF	0	0	0
PHOENIX	0	0	0
TUCSON	0	0	0
WINSLOW	0	0	0
YUMA	0	0	10
ARKANSAS			
FORT SMITH	0	0	0
LITTLE ROCK	6	6	0
CALIFORNIA			
BAKERSFIELD	0	0	0
BISHOP	0	0	0
BLUE CANYON	0	0	0
EUREKA U	0	0	0
FRESNO	0	0	0
LONG BEACH	6	6	5
LOS ANGELES	13	13	5
LOS ANGELES U	21	21	10
MT SHASTA R	0	0	0
OAKLAND	0	0	0
RED BLUFF	0	0	0
SACRAMENTO	0	0	0
SANDBERG R	0	0	0
SAN DIEGO	0	0	10
SAN FRANCISCO	0	0	0
SAN FRANCISCO U	0	0	0
SANTA MARIA	0	0	0
STOCKTON	0	0	0
COLORADO			
ALAMOSA	0	0	0
COLORADO SPRINGS	0	0	0
DENVER	0	0	0
GRAND JUNCTION	0	0	0
PUEBLO	0	0	0
CONNECTICUT			
BRIDGEPORT	0	0	0
HARTFORD	0	0	0
DELAWARE			
WILMINGTON	0	0	0
DIST.OF COLUMBIA			
WASHINGTON DULLES	0	0	0
WASHINGTON NATIONAL	1	1	0
FLORIDA			
APPALACHICOLA U	5	5	18
DAYTONA BEACH	71	71	37
FORT MYERS	181	181	81
JACKSONVILLE	31	31	25
KEY WEST	309	309	193
LAKELAND U	108	108	58
MIAMI	261	261	121
ORLANDO	105	105	52
PENSACOLA	22	22	27
TALLAHASSEE	6	6	23
TAMPA	93	93	60
WEST PALM BEACH	216	216	98
GEORGIA			
ATHENS	6	6	0
ATLANTA	0	0	0
AUGUSTA	2	2	6
COLUMBUS	5	5	10
MACON	3	3	10
ROME	0	0	0
SAVANNAH	20	20	15

State and station	Current season: This month	Current season: Period January through this month	Normals January through this month
HAWAII			
HILO	192	192	192
HONOLULU	235	235	226
KAHULUI	205	205	208
LIHUE	255	255	196
IDAHO			
BOISE	0	0	0
LEWISTON	0	0	0
POCATELLO	0	0	0
ILLINOIS			
CAIRO U	0	0	0
CHICAGO O HARE	0	0	0
CHICAGO MIDWAY	0	0	0
MOLINE	0	0	0
PEORIA	0	0	0
ROCKFORD	0	0	0
SPRINGFIELD	0	0	0
INDIANA			
EVANSVILLE	0	0	0
FORT WAYNE	0	0	0
INDIANAPOLIS	0	0	0
SOUTH BEND	0	0	0
IOWA			
BURLINGTON	0	0	0
DES MOINES	0	0	0
DUBUQUE	0	0	0
SIOUX CITY	0	0	0
WATERLOO	0	0	0
KANSAS			
CONCORDIA	0	0	0
DODGE CITY	0	0	0
GOODLAND	0	0	0
TOPEKA	0	0	0
WICHITA	0	0	0
KENTUCKY			
COVINGTON	0	0	0
LEXINGTON	0	0	0
LOUISVILLE	0	0	0
LOUISIANA			
ALEXANDRIA	25	25	10
BATON ROUGE	30	30	17
LAKE CHARLES	32	32	21
NEW ORLEANS	34	34	28
SHREVEPORT	23	23	0
MAINE			
CARIBOU	0	0	0
PORTLAND	0	0	0
MARYLAND			
BALTIMORE	0	0	0
MASSACHUSETTS			
BLUE HILL OBS R	0	0	0
BOSTON	0	0	0
WORCHESTER	0	0	0
MICHIGAN			
ALPENA	0	0	0
DETROIT	0	0	0
DETROIT METRO	0	0	0
FLINT	0	0	[illegible]
GRAND RAPIDS	0	0	0
HOUGHTON LAKE	0	0	0
LANSING	[illegible]	0	0
MARQUETTE U	0	0	0
MUSKEGON	0	0	0
SAULT STE MARIE	0	0	0
MINNESOTA			
DULUTH	0	0	0
INTERNATIONAL FALLS	0	0	0
MINNEAPOLIS	0	0	0
ROCHESTER	0	0	0
ST CLOUD	0	0	0
MISSISSIPPI			
JACKSON	26	26	14
MERIDIAN	4	4	14
MISSOURI			
COLUMBIA REGIONAL	0	0	0
KANSAS CITY	0	0	0
ST JOSEPH	0	0	0
ST LOUIS	0	0	0
SPRINGFIELD	0	0	0
MONTANA			
BILLINGS	0	0	[illegible]
GLASCOW	0	0	0
GREAT FALLS	0	0	0
HAVRE	0	0	0
HELENA	0	0	0
KALISPELL	[illegible]	0	0
MILES CITY	0	0	0
MISSOULA	0	0	0

State and station	Current season: This month	Current season: Period January through this month	Normals January through this month
NEBRASKA			
GRAND ISLAND	0	0	0
LINCOLN	0	0	0
NORFORK	0	0	0
NORTH PLATTE	0	0	0
OMAHA	0	0	0
SCOTTSBLUFF	0	0	0
VALENTINE	0	0	0
NEVADA			
ELKO	0	0	0
ELY	0	0	0
LAS VEGAS	0	0	0
RENO	0	0	0
WINNEMUCCA	0	0	0
NEW HAMPSHIRE			
CONCORD	0	0	0
MT WASHINGTON OBS	0	0	0
NEW JERSEY			
ATLANTIC CITY	0	0	0
ATLANTIC CITY U	0	0	0
NEWARK	0	0	0
TRENTON U	0	0	0
NEW MEXICO			
ALBUQUERQUE	0	0	0
CLAYTON	0	0	0
ROSWELL	0	0	0
NEW YORK			
ALBANY	0	0	0
BINGHAMTON	0	0	0
BUFFALO	0	0	0
NEW YORK U	0	0	0
NEW YORK KENNEDY	0	0	0
NEW YORK LA GUARDIA	0	0	0
ROCHESTER	0	0	0
SYRACUSE	0	0	0
NORTH CAROLINA			
ASHEVILLE	0	0	0
CAPE HATTERAS R	1	1	0
CHARLOTTE	0	0	0
GREENSBORO	0	0	0
RALEIGH	0	0	0
WILMINGTON	1	1	9
NORTH DAKOTA			
BISMARCK	0	0	0
FARGO	0	0	0
WILLISTON	0	0	0
OHIO			
AKRON	0	0	0
CINCINNATI ABBE OB	0	0	0
CLEVELAND	0	0	0
COLUMBUS	0	0	0
MANSFIELD	0	0	0
TOLEDO	0	0	0
YOUNGSTOWN	0	0	0
OKLAHOMA			
OKLAHOMA CITY	0	0	0
TULSA	0	0	0
OREGON			
ASTORIA	0	0	0
BURNS U	0	0	0
EUGENE	0	0	0
MEACHAM	0	0	0
MEDFORD	0	0	0
PENDLETON	0	0	0
PORTLAND	0	0	0
SALEM	0	0	0
SEXTON SUMMIT R	0	0	0
PACIFIC AREA			
GUAM TAGUAC R	409	409	381
JOHNSTON	361	361	366
KOROR R	498	498	502
KWAJALEIN	526	526	502
MAJURO	483	483	490
PAGO PAGO	485	485	474
PONAPE R	525	525	484
TRUK MOEN ISLAND	522	522	496
WAKE	357	357	372
YAP R	474	474	477
PENNSYLVANIA			
ALLENTOWN	0	0	0
ERIE	0	0	0
HARRISBURG	0	0	0
PHILADELPHIA	0	0	0
PITTSBURGH	0	0	0
SCRANTON	0	0	0
WILLIAMSPORT	0	0	0
RHODE ISLAND			
BLOCK ISLAND	0	0	0
PROVIDENCE	0	0	0

State and station	Current season: This month	Current season: Period January through this month	Normals January through this month
SOUTH CAROLINA			
CHARLESTON	8	8	12
CHARLESTON U	5	5	16
COLUMBIA	8	8	[illegible]
GRNVLLE-SPRTNBRG	0	0	0
SOUTH DAKOTA			
ABERDEEN	0	0	0
HURON	0	0	0
RAPID CITY	0	0	0
SIOUX FALLS	0	0	0
TENNESSEE			
BRISTOL	0	0	0
CHATTANOOGA	0	0	0
KNOXVILLE	0	0	0
MEMPHIS	8	8	0
NASHVILLE	3	3	0
OAK RIDGE	0	0	0
TEXAS			
ABILENE	0	0	0
AMARILLO	0	0	0
AUSTIN	21	21	8
BROWNSVILLE	79	79	79
CORPUS CHRISTI	70	70	34
DALLAS FT WORTH	0	0	0
DEL RIO	13	13	8
EL PASO	0	0	0
GALVESTON	19	19	20
HOUSTON INTERCON	47	47	16
LUBBOCK	0	0	0
MIDLAND	0	0	0
PORT ARTHUR	28	28	17
SAN ANGELO	3	3	0
SAN ANTONIO	29	29	8
VICTORIA	61	61	16
WACO	2	2	0
WICHITA FALLS	0	0	0
UTAH			
MILFORD	0	0	0
SALT LAKE CITY	0	0	0
WENDOVER	0	0	0
VERMONT			
BURLINGTON	0	0	0
VIRGINIA			
LYNCHBURG	0	0	0
NORFORK	2	2	0
RICHMOND	0	0	0
ROANOKE	0	0	0
WALLOPS ISLAND	0	0	0
WASHINGTON			
OLYMPIA	0	0	0
QUILLAYUTE	0	0	0
SEATTLE	0	0	0
SEATTLE-TACOMA	0	0	0
SPOKANE	0	0	0
STAMPEDE PASS R	0	0	0
WALLA WALLA U	0	0	10
YAKIMA	0	0	0
WEST INDIES			
SAN JUAN P.R.	375	375	322
WEST VIRGINIA			
BECKLEY	0	0	0
CHARLESTON	0	0	0
ELKINS	0	0	0
HUNTINGTON	0	0	0
PARKERSBURG U	0	0	0
WISCONSIN			
GREEN BAY	0	0	0
LA CROSSE	0	0	0
MADISON	0	0	0
MILWAUKEE	0	0	0
WYOMING			
CASPER	0	0	[illegible]
CHEYENNE	0	0	0
LANDER	0	0	0
SHERIDAN	0	0	0

STORM SUMMARY

JANUARY 1975

STATE	TORNADOES					HAILSTORMS				WINDSTORMS				LIGHTNING				@HEAVY SNOWSTORMS AND BLIZZARDS				# ICE STORMS				ϕ ALL OTHER			
								†DAMAGE				†DAMAGE				†DAMAGE				†DAMAGE				†DAMAGE				†DAMAGE	
	NUMBER	DAYS	DEATHS	INJURIES	†DAMAGE	DEATHS	INJURIES	PROP-ERTY	CORPS	DEATHS	INJURIES	PROP-ERTY	CORPS	DEATHS	INJURIES	PROP-ERTY	CORPS	DEATHS	INJURIES	PROP-ERTY	CORPS	DEATHS	INJURIES	PROP-ERTY	CORPS	DEATHS	INJURIES	PROP-ERTY	CORPS
Alabama	12	1	1	58	7							5																	
Alaska *																													
Arizona												4																	
Arkansas	2	1		5	4			2			2	4																	
California												5																?	
Colorado											4	5								4									
Connecticut *																													
Delaware *																													
Florida	7	4	1	25	6							2																	
Georgia	3	2		16	7							5																	
Hawaii																										1	1	6	5
Idaho												4						2		5									
Illinois	1	1			5							6																3	
Indiana	1	1			4						3	5			1														
Iowa																		2	145	7									
Kansas																			?	4									
Kentucky											4	5								4									
Louisiana	10	4	1	24	5					2	4	5																	
Maine																				4									
Maryland & D C												4																	
Massachusetts *																													
Michigan										2	39	7				5													
Minnesota																		14	?	7									
Mississippi	8	1	9	211	7					2	12	7	1							?	?								
Missouri										2	1	3	?											?	?		3	5	?
Montana *																													
Nebraska												4								5	5								
Nevada												4																	
New Hampshire																		2	20	4									
New Jersey *																													
New Mexico												4																	
New York											4	?														1		?	
North Carolina	1	1			4							4																	
North Dakota																		12	?	?	?								
Ohio												4																	
Oklahoma	1	1			5							5																	
Oregon												?	?																
Pacific																										?	?	?	?
Pennsylvania											1	5								5								4	
Puerto Rico *																													
Rhode Island *																													
South Carolina												4																	
South Dakota																		8	?	7	6								
Tennessee											5	5																	
Texas	5	1			5							5	?							?	?					3	?	7	?
Utah										1		6																	
Vermont												5																	
Virginia	1	1		2	4							3																	
Virgin Islands *																													
Washington											2	5															1	6	
West Virginia										1		4												4					
Wisconsin										3	?	7																	
Wyoming												5																	

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

JANUARY 1975

Herbert J. Thompson and Raymond J. Haley,
Office of Hydrology

Major flooding occurred along the Snoqualmie River in Washington. A record crest stage was reported on the Umatilla River in northeastern Oregon although damage was comparatively light. Minor to moderate flooding was widespread along the Gulf and Atlantic slope drainages from Texas to Virginia and in the Illinois and Ohio River Basins. Some flooding was reported in the lower Missouri, White, Arkansas, and lower Mississippi Basins, along the Oregon coast, and in the Willamette Basin.

There were problems from ice jams in the upper Midwest, particularly on the Rock River in Illinois and on the Missouri River.

Urban flooding occurred in western New York and Kentucky.

Hydrologic events of unusual significance and/or involving loss of life or property are discussed in more detail below.

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ST. LAWRENCE DRAINAGE		
Southern Michigan Streams	A combination of rainfall and snowmelt totaling 1.5 to 2.5 inches during the period of the 8th-11th caused strong rises on most streams in the area. Crests were generally in the range of one-half bankfull to near flood stage. The Clinton River went slightly over flood stage at Fraser with some urban flooding reported in the Detroit suburbs. Several ice jams formed along the Grand River with backwater reaching to within a foot of flood stage at Portland. This flood threat persisted for several days.	0	N.A.
Maumee River Basin	Rainfall averaging about 1.5 inches during the period of the 7th-12th combined with snowmelt to cause substantial rises on streams in the basin. Crests about 2 feet over flood stage occurred on the St. Joseph River at Montpelier, Ohio, and the Tiffin River at Stryker, Ohio, with flooding lasting about a week on these streams. Other streams in the basin crested below flood stage. A second strong rise occurred in the basin late in the month but no flooding resulted.	0	N.A.
Western New York Streams	Heavy local showers on the 29th caused urban and small stream flooding in Buffalo and vicinity. One youth drowned while playing on a rain-swollen stream.	1	N.A.
	ATLANTIC SLOPE DRAINAGE		
Susquehanna River Basin	Mild temperatures the second week of the month caused rapid snowmelt with some bottom-land flooding along the Chemung River in the headwaters of the basin. The Chemung crested about 2 feet over flood stage at Chemung, N.Y., on the 12th. Other headwater streams generally crested at one-half to three-quarters bankfull.	0	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

JANUARY 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ATLANTIC SLOPE DRAINAGE-Continued		
Coastal Streams in North Carolina	Rainfall was frequent and heavy over North Carolina with many monthly totals in excess of 6 inches. The most significant rainfall occurred during the period of the 10th-13th with storm totals of about 2 to 4 inches. Moderate flooding was reported with crests up to 4 feet over flood stage on the Tar River, 7 feet over flood stage on the Neuse River, and 15 feet over flood stage on the Cape Fear River. Another period of rainfall on the 24th-26th with amounts of up to 2 inches caused minor flooding on the lower Tar and upper Neuse Rivers and a crest 8 feet over flood stage at Huske Lock and Dam on the Cape Fear River. Flooding on the lower Neuse and Cape Fear Rivers Continued into February. The lower Roanoke River ran about 1 foot over flood stage from the 17th through the end of the month due to releases from upstream reservoirs.	0	N.A.
Pee Dee, Santee, and Edisto River Basins	Monthly rainfall totals averaged 4 to 6 inches over the headwater areas, 7 to 8 inches over the middle portions of these basins and 4 to 5 inches over the lower reaches. During the period of the 11th-13th a deep trough aloft and a north-south oriented cold front moved across the Carolinas triggering heavy rainfall of 2 to 3 inches. A somewhat similar situation occurred on the 19th to 20th and again on the 24th to 25th with surface lows moving northeast along the coast. Flooding was widespread but generally minor. However, crests of 6 and 5 feet over flood stage occurred on the Rocky River at Norwood, N.C., on the 11th and 25th, and a crest more than 8 feet over flood stage was reported on the Broad River at Blair, S.C. The Lumber River remained over flood stage from the 12th through the end of the month with damages estimated at $3,000. Crests about 5 feet over flood stage occurred on the Pee Dee River at Cheraw, S.C., on the 14th and 27th with damages downstream of $10,000 mainly from disruption of logging activities. Losses to small grains on the Congaree River below Columbia, S.C., were estimated at $3,000. Urban flooding from locally heavy rainfall occurred at Lancaster, S.C., the night of the 24th, and flash flooding on small streams around Chester, S.C., was reported on the 13th.	0	16
Savannah, Altamaha, and Satilla River Basins	A series of storms during the period of the 8th-13th caused rainfall totals ranging up to more than 4 inches for the period over much of Georgia. Strong rises occurred on most streams but flooding was generally minor. The lower Savannah crested about 2 feet over flood stage at Clyo, Ga., and continued in flood thru the end of the month. More than 4 feet of flooding was reported on the Oconee River at Milledgeville, Ga. Minor flooding was reported on portions of the Ogeechee, Ocmulgee, Altamaha, and Satilla Rivers.	0	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

JANUARY 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ATLANTIC SLOPE DRAINAGE-Continued		
Apalachicola River Basin	During the period of the 8th-13th, rainfall totaled over 4 inches over the headwaters of the basin and nearly 6 inches over the lower Apalachicola with the river cresting 5 feet over flood stage at Blountstown, Fla., on the 15th. Minor flooding occurred on Peachtree Creek in Atlanta, Ga.	0	N.A.
Alabama River Basin	Frequent rains occurred during the month with 1 to 2 inches in 24 hours common during the period of the 7th-12th which resulted in light flooding on the lower Alabama River beginning on the 11th, with damage estimated at $68,000 to agriculture and $8,000 to roads. Crests were about 3 feet over flood stage. Heavy rain the night of the 24th caused urban and small stream flooding along a 50-mile wide area from near Semopolis, Ala., to Rome, Ga. Amounts were generally 2 to 3 inches with locally heavier amounts of more than 4 inches, particularly over the urban centers of Birmingham and Gadsden, Ala. Damage from urban flooding was minor, however, light flooding developed on the upper Cahaba River with agricultural damage estimated at $5,000.	0	81
Tombigbee River Basin	Flooding continued into the first few days of January on the Upper Tombigbee River and its East Fork and Tibbee Creek tributaries, and began at Gainesville, Ala., on the 4th as a result of late December rains. January precipitation was well above normal, averaging 7 to 8 inches over the middle and upper portions of the basin. The heaviest rainfall occurred the second week of the month with amounts of 4 inches or more. A second period of rain on the 24th-26th left amounts of up to over 3 inches. Both storms caused some light flooding on headwater tributaries while more significant flooding occurred on the lower Tombigbee which lasted all month at Coffeeville, Ala., where a crest nearly 9 feet over flood stage occurred. Losses were estimated by the Corps of Engineers at $28,000 to agriculture on the lower Black Warrior River and $275,000 agriculture, $33,000 road, and $590,000 urban on the lower Tombigbee.	0	926
Pascagoula and Pearl River Basins	Monthly rainfall totals were generally in the range of 3 to 8 inches, but as much as 13 inches was reported in the south central part of the state. The heaviest period of rain occurred during the second week of the month with 5.2 inches reported at Meridian, Miss., for the period which caused significant flooding on the upper Chickasawhay River with crests 9 to 12 feet over flood stage. Elsewhere in the Pascagoula Basin moderate flooding occurred along Tallahala Creek and the lower Leaf River and minor flooding in the lower part of the basin. Flooding on the Pearl River continued from December, ending on the Upper Pearl and at Columbia, Miss., during the first week of the month, but	0	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

JANUARY 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ATLANTIC SLOPE DRAINAGE-Continued		
	returning to flood conditions during the third week following the period of heavy rainfall. The middle reach of the Pearl remained above flood stage most of the month, except at Columbia, while flooding on the lower Pearl in Louisiana lasted all month and extended into February. Crests were generally about 5 feet over flood stage for the January flooding.		
	UPPER MISSISSIPPI BASIN		
Rock River	There was some local overflow from ice jams on the Rock River between Moline and Joslin, Ill., caused by snowmelt runoff. Fluctuations in stage due to ice action continued during the latter half of the month on that reach of the stream. However, no reporting stations went over flood stage.	0	N.A.
Illinois and Meramec Rivers	On the 10th-11th heavy rainfall resulted from a surface frontal system associated with an upper level trough which closed aloft to produce an unusually deep cold-core system. Amounts of over 3 inches fell over the Illinois Basin in Illinois and the lower Meramec River in east-central Missouri. Sharp rises occurred on the Upper Illinois and lower Meramec Rivers. Crests were up to 4.5 feet over flood stage on the Upper Illinois and over 5 feet above flood stage on the lower Meramec Rivers. Minor flooding occurred on the Illinois River at Beardstown. Damage was probably light at this season of the year.	0	N.A.
	MISSOURI BASIN		
Missouri River Main Stem	Several ice jams formed on the Missouri River due to rapidly fluctuating temperatures during the middle of the month. A jam below Washburn, N.D., caused a rise of 6.5 feet but no flooding resulted. On the 12th-13th a jam eventually extending from 4 miles north of Sioux City, Iowa, to 10 miles south of Yankton, S.D., flooded about 1,000 acres above the mouth of the Vermillion River. Ice jams above Leavenworth, Kansas, created unusually low stages below Leavenworth. Kansas City had two periods of negative stages reaching a -1.00 foot on the 12th and a -0.72 foot on the 17th.	0	N.A.
Marais des Cygnes Basin	A stationary frontal system caused from 1 to 2.5 inches of rain over the lower portion of the basin on the 31st with the Marmaton River cresting slightly over flood stage at Ft. Scott, Kansas.	0	0
	OHIO BASIN		
Youghiogheny and Cheat River Basins	Moderate to heavy rain fell over these basins during the 24 hours ending on the 1st. Sharp	0	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

JANUARY 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	OHIO BASIN-Continued		
	rises occurred on streams in the basin but no reports of major flooding were received. The Youghiogheny River crested at flood stage in Connellsville, Pa., with resultant street flooding.		
Mahoning River	Moderate rain on the 9th combined with releases of 980 c.f.s. from Milton Reservoir produced a crest 2.2 feet over flood stage at Warren, Ohio. This flow with an additional 520 c.f.s. from Mosquito Reservoir caused a crest 1.3 feet over flood stage at Youngstown, Ohio. Some damage occurred at Youngstown.		
Scioto River	Precipitation during January ranged from 10 to 50 percent above normal over the basin. There were two periods of heavy rainfall from the 9th to the 13th and the last few days of the month, with 1 to 2 inches of rainfall on each occasion. Strong rises occurred on the Scioto River with crests just below flood stage, except at Circleville, Ohio, where about 2 feet of flooding was reported on both rises.	0	N.A.
Green River Basin	During the period of the 10th-11th rainfall averaged about 2 inches over the basin with locally heavier amounts up to 3 inches over the Barren River Basin. Reservoir storage prevented river flooding at Bowling Green, Ky., on the Barren River, however, urban and flash flooding was reported in Bowling Green and Franklin, Ky., where high water on Drake's Creek damaged the water supply intake structure. Light flooding occurred at Woodbury and Calhoun, Ky., on the lower Green River. Urban flooding was also reported at Nortonville, Hansen, Dawson Springs, Earlington, Madisonville, and Henderson.	0	N.A.
Wabash River Basin	Precipitation during January was well above normal over the basin, ranging up to 200 percent of normal over the lower portion. Measurable precipitation was recorded on an average of 15 days at most stations. Rivers were on the rise at the beginning of the month with some flooding on the Embarras and Little Wabash Rivers during the first week of the month. With stream levels continuing at a high level rainfall of 1.5 to 3 inches during the period of the 9th-11th was sufficient to cause moderate flooding over the lower portion of the basin. A crest nearly 8 feet over flood stage occurred on the Embarras River at Lawrenceville, Ill., 4 to 5 feet of flooding occurred on the lower White and the Little Wabash Rivers, and from 3 to 6 feet of flooding occurred on the middle Wabash with minor flooding downstream. Minor flooding occurred on portions of the Little Wabash and Wabash Rivers which extended into February.	0	N.A.
Cumberland River Basin	During the period of the 10th-12th from 3 to 3.5 inches of rain fell over the Harpeth and Red tributary basins with resultant flooding of 4 to 6	0	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

JANUARY 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	OHIO BASIN-Continued		
	feet over unplanted agricultural lands. Urban flooding was reported in Hopkinsville, Tenn., with 2.7 inches recorded for the storm.		
Tennessee River Basin	Rainfall over the Duck and Elk tributary basins averaged about 2.5 inches for the storm of the 10th-12th. The Duck River crested 1 foot over flood stage at Columbia, Tenn., while the Elk River crested just below flood stage at Fayetteville. During the same period rainfall over the South Chickamauga Creek Basin averaged about 2 inches with a crest slightly over flood stage. However, on the 25th rainfall of 2 inches in less than 24 hours caused a crest 2.5 feet over flood stage at the gage near Chattanooga, Tenn. Flooding on these streams was limited to low-lying, unplanted agricultural land.	0	N.A.
Ohio River Main Stem	There were several rises on the Ohio River during the month with heavy inflow from the Green and Wabash Basins causing the river to go over flood stage at Dam 50, Fords Ferry, Ky., and at Cairo, Ill., the middle of the month.	0	N.A.
	WHITE BASIN		
White, Black, and Cache Rivers	The Cache River at Patterson and the White River at Augusta, Ark., went over flood stage the 1st and 2d of the month, respectively, as a result of late December rainfall and, aided by near normal rainfall, continued in flood through the end of the month. Minor flooding occurred on the lower Black and White Rivers as a result of rains of around 2 inches during the period of the 8th-11th. Flooding continued into February on the lower White River.	0	N.A.
	ARKANSAS BASIN		
Verdigris and Neosho River Basins	Moderate to heavy rains of 1.5 to 2.5 inches on the 30th and 31st caused sharp rises on streams in the lower Arkansas, Verdigris, and Neosho Basins. Flooding occurred on Bird Creek and the Little Caney River in the Verdigris Basin and along the lower Neosho River. A crest nearly 6 feet over flood stage occurred on Bird Creek at Sperry, Okla., and about 4 feet of flooding occurred on the lower Neosho.	0	N.A.
	RED BASIN		
Ouachita River	Heavy rains of around 2 inches during the period of the 8th-11th caused flooding of agricultural land around Camden, Ark., with a crest there of 1.7 feet over flood stage. Damage was light at this season.	0	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

JANUARY 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	LOWER MISSISSIPPI BASIN		
St. Francis River	Runoff from heavy rains over southeast Missouri on the 10th combined with releases from Wappapello Reservoir to cause minor flooding of low-lying, unplanted agricultural land around St. Francis, Ark., for ten days.	0	N.A.
Big Black River (Mississippi)	Flooding continued from December along the Big Black River which had crested 7 feet over flood stage at West on Dec. 31. Downstream, the crest at Bovina occurred on the 1st about 2 feet over flood stage. Rainfall totals for the month ranged from about 3 to 8 inches over the basin with the heavier amounts over the lower portion. Much of this rain fell during the period of the 8th-11th causing a second crest about 3 feet over flood stage along the lower reaches of the stream. Agricultural and logging operations were at a standstill during the month in the inundated areas with livestock and machinery evacuated.		
Amite River	Monthly rainfall totals ranged from 7 to 10 inches with most of the rain falling during the period of the 7th-11th. Minor flooding occurred at Denham Springs with a crest 1 foot over flood stage. According to the U.S. Geological Survey flow of the river near Denham Springs was 250 percent of the long-term January average.	0	N.A.
	WEST GULF OF MEXICO DRAINAGE		
Mermentau, Calcasieu River Basins (Louisiana)	The Calcasieu River was above flood stage to below Kinder, at the beginning of the month ending at Oakdale and Kinder the 1st and 3d, respectively, but continuing at Hineston until the 19th due to heavy rains of 3 to 4 inches on the 8th-11th. This storm caused a second crest at Hineston nearly 4 feet over flood stage, causing minor flooding at Kinder and on the West Fork Calcasieu, and moderate flooding on the Mermentau River with a crest 1.6 feet over flood stage at Mermentau.	0	N.A.
Sabine, Necheo, and Trinity River Basins	Lowland flooding continued in several portions of these basins from December ending at Crandall on the East Fork Trinity River on the 7th. This flooding lasted the entire month on the Sabine River at Deweyville, the Angelina River at Lufkin, and the Neches River at Diboll, and until the 29th at Moss Bluff on the Trinity. Rainfall of 3.5 to 8 inches during the month helped to maintain flooding at these points. Heavy rainfall of up to 5 inches on the 8th caused some flooding on Attoyac Bayou, the Neches River at Beaumont, and the East Fork of the Trinity.		
	PACIFIC SLOPE DRAINAGE		
Coastal Basins in Oregon	Heavy rains of up to 7.5 inches during the period of the 3d-6th caused strong rises on several coastal streams in Oregon with the South Fork Coquille River	0	48

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	PACIFIC SLOPE DRAINAGE-Continued		
	cresting about 3 feet over flood stage at Myrtle Point. Flooding was limited to pasture lands and some secondary roads. Minor flooding occurred on the Wilson River at Tillamook while the Nehalem and Siletz Rivers crested just below flood stage. A second storm on the 13th-16th over the northern Coastal Range melted the snow cover of up to 12 inches. Rain over the Wilson River Basin ranged up to at least 9 inches for this storm with the river cresting about 2 feet over flood stage at Tillamook. In the Nehalem Basin a point rainfall total of 12.6 inches was observed for this storm and the river crested 4 feet over flood stage at Foss. Flooding along both streams was limited to agricultural land.		
Walla Walla and Umatilla Rivers	Record flooding occurred on the Umatilla River at Pendleton, Ore., as a storm moved up the Columbia River on the 23d-26th. Storm rainfall totals ranged from 5 inches over the lower Columbia to more than 2 inches over the Umatilla Basin which combined with unseasonably warm temperatures (freezing levels 9-10,000 feet) to cause considerable melting of an above normal snow pack in the Blue Mountains which resulted in the record producing runoff. The discharge associated with the crest of 11.5 feet (3.5 feet above flood stage) was computed to be 17,200 c.f.s. The previous maximum of record was 15,500 c.f.s. on Jan. 30, 1965. Flows of 17,000 c.f.s. and 15,500 c.f.s. occurred in 1882 and 1906, respectively, from studies made by the Corps of Engineers. Although the city of Pendleton is protected by a levee, several bridges and the levee were damaged and 20 families were evacuated from South Pendleton and Mission. The Walla Walla River crested short of major flood stage at Touchet, Wash., with minor damage estimated at $500.	0	230.5
Willamette River Basin	The three storms which deposited heavy rainfall over portions of the northern Coastal Range during the month as discussed above also caused sharp rises on tributaries of the Willamette River draining the east slopes of the Coastal Range. Several of these streams went over flood stage including the South Hamhill, Pudding, and Tualatin Rivers. Flooding was generally in the range of 1 to 2 feet although a crest nearly 5 feet over flood stage occurred on the upper South Yamhill River on the 5th. A crest 2.7 feet over flood stage occurred on Johnson Creek near Portland on the 25th.	0	90
Chehalis River Basin	Freezing levels ranged from 6,000 to 8,000 feet over the basin on the 12th-15th and rainfall amounts ranged up to 5.5 inches for a 30 hour period on the 12th-13th. The combination of rainfall and snowmelt caused flooding along the Chehalis River with a crest 2.8 feet over flood stage at Centralia,	0	N.A.

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	PACIFIC SLOPE DRAINAGE-Continued		
	Wash.		
Snohomish River Basin	Major flooding occurred on the 17th-19th along the Snoqualmie River, a major tributary of the Snohomish. A crest nearly 5 feet over flood stage was reported at Carnation, Wash., which was the highest stage there since 1959. Heavy warm rain began late on the 16th and the freezing level rose from 4,500 feet at 4 p.m. on the 16th to 9,000 feet at 4 a.m. on the 17th, resulting in substantial snowmelt. Damage estimates by the Corps of Engineers indicate losses of $3.4 million along the Snoqualmie and $200,000 along both the Skykomish and Snohomish Rivers.	0	3,800

FLOOD STAGE DATA

(All dates in January unless otherwise specified)

JANUARY 1975

River and station	Flood stage	Above flood stages —dates: From	Above flood stages —dates: To—	Crest: Stage	Crest: Date
	Ft.			Ft.	
ST. LAWRENCE DRAINAGE					
Clinton River:					
Fraser, Mich.	13	11	11	#13.44	11
St. Joseph:					
Montpelier, Ohio	10	1[illegible]	16	12.34	12
Tiffin:					
Stryker, Ohio	11	10	17	12.95	13
ATLANTIC SLOPE DRAINAGE					
Chemung:					
Chemung, N. Y.	12	12	12	13.95	12
Roanoke:					
Williamston, N. C.	10	17	1/	11.1	25
Tar:					
Rocky Mount, N. C.	9	14	18	10.2	15
Tarboro, N. C.	19	16	20	23.0	18
Greenville, N. C.	13	16 30	23 30	15.6 13.2	20 30
Neuse:					
Neuse, N. C.	14	13 27	18 28	19.2 14.8	16 28
Smithfield, N. C.	13	13 26	23 30	19.9 17.2	16 28
Goldsboro, N. C.	14	14	1/	20.8	21
Kinston, N. C.	14	18	1/	18.1	25
Cape Fear:					
Fayetteville, N. C.	35	14	16	40.5	14
Huske Lock & Dam, N. C.	42	13 22 26	20 23 30	55.0 43.5 50.2	15 22 27
Elizabethtown, N. C.	20	13 26	24 1/	30.2 27.2	16 28
Rocky:					
Norwood, N. C.	15	11 25	13 25	20.97 19.96	11 25
Lumber:					
Lumberton, N. C.	9	12	1/	11.8	16
Little Pee Dee:					
Galivants Ferry, S. C.	9	Dec 27 14	1/ 1/	9.3 10.5	1 27
Pee Dee:					
Cheraw, S. C.	30	12 26	15 28	34.7 35.27	14 27
Pee Dee, S. C.	19	13	1/	23.0	19
Broad:					
Blair, S. C.	14	11 25	14 27	22.2 16.6	13 26
Saluda:					
Chappells, S. C.	14	12 25	14 26	17.44 15.7	13 26
Wateree:					
Wateree Reservoir, S. C.	100	14	15	101.3	14
North Fork Edisto:					
Orangeburg, S. C.	8	14	16	8.2	15
Edisto:					
Givhans Ferry, S. C.	10	20	26	10.5	23
Savannah:					
Clyo, Ga.	11	18	1/	12.9	26
Ogeechee:					
Scarboro, Ga.	8	21	24	8.6	22
Eden, Ga.	9	26	1/	9.9	28
Ocmulgee:					
Macon, Ga.	18	13	13	18.4	13

River and station	Flood stage	Above flood stages —dates: From—	Above flood stages —dates: To—	Crest: Stage	Crest: Date
	Ft.			Ft.	
ATLANTIC SLOPE DRAINAGE Continued					
Oconee:					
Milledgeville, Ga.	20	13	13	24.2	13
Altamaha:					
Charlotte, Ga.	15	23	26	15.5	24
Satilla:					
Waycross, Ga.	16	19	21	16.5	20
EAST GULF OF MEXICO DRAINAGE					
Peachtree Creek:					
Atlanta, Ga.	13	10	10	13.2	10
Apalachicola:					
Blountstown, Fla.	15	E13	E24	#20.0	15
Cahaba:					
Centreville, Ala.	23	25	26	25.17	25
Alabama:					
Millers Ferry Lock & Dam, Ala.	66	11	15	#68.8	13
Claiborne, Ala.	40	11	17	#42.7	14
Old Town Creek:					
Tupelo, Miss.	21	11	12	23.2	11
Tibbee Creek:					
Tibbee, Miss.	23	Dec 28	3	26.62	Dec 28
Black Warrior:					
Warrior Lock & Dam, Ala.	30	12 27	16 29	#33.3 #33.2	14, 15 28
East Fork:					
Fulton, Miss.	16	Dec 25 11 20	3 15 23	17.25 17.24 16.50	Dec 30 11 20
Tombigbee:					
Amory, Miss.	20	Dec 28 11	5 16	26.09 23.27	Dec 31 12
Aberdeen, Miss.	34	Dec 29 13	6 14	39.58 34.71	Dec 31 13
Gainesville, Ala.	36	4	21	42.7	17
Demopolis Lock & Dam, Ala.	48	10 27	21 29	#56.3 #49.0	16 28
Coffeeville Lock & Dam, Ala.	42	Dec 26	1/	#46.8 #51.6 #47.9	Dec 30 19, 20 30
Tallahala Creek:					
Laurel, Miss.	13	9 26	19 31	16.25 14.67	14 29
Leaf:					
Beaumont, Miss.	20	10	19	23.16	17
Chickasawhay:					
Enterprise, Miss.	20	12	15	29.20	13
Shubuta, Miss.	30	15	18	32.31	16
Pascagoula:					
Merrill, Miss.	22	11	20	23.1	13
Bogue Chitto:					
Franklinton, La.	11	9	9	12.71	9
Pearl:					
Edinburg, Miss.	20	Dec 27 12	2 18	22.5 24.0	Dec 29 15
Carthage, Miss.	17	Dec 28 12	5 20	20.0 22.2	Dec 31 15
Jackson, Miss.	18	Dec 24	31	30.6	Dec 30
Monticello, Miss.	19	Dec 25	28	A24.2	12
Columbia, Miss.	17	Dec 25 9	3 19	18.17 20.02	Dec 31 14
Bogalusa, La.	15	Dec 26	1/	20.3	15-16
Pearl River, La.	12	Dec 30	1/	E17.0	E15

FLOOD STAGE DATA

(All dates in January unless otherwise specified)

River and station	Flood stage	Above flood stages dates: From	Above flood stages dates: To	Crest: Stage	Crest: Date
	Ft			Ft	
Upper Mississippi Basin					
Illinois River:					
Morris, Ill.	13	10	13	17.5	11
La Salle, Ill.	20	11	15	23.0	12
Beardstown, Ill.	14	17	24	14.8	19
Meramec River:					
Pacific, Mo.	18	11	14	23.43	13
Valley Park, Mo.	16	12	14	18.55	13
Missouri Basin					
Marmaton River:					
Fort Scott, Kans.	38	31	31	38.64	31
Ohio Basin					
Youghiogheny:					
Connellsville, Pa.	12	1	1	12.0	1
Mahoning:					
Warren, Ohio	7	9	10	9.2	10
Youngstown, Ohio	10	9	10	11.29	10
Scioto:					
Circleville, Ohio	14	10 30	13 Feb 2	15.90 15.90	12 31
Green:					
Woodbury, Ky. (Lower Gage)	33	11	13	35.[illegible]	12
Calhoun, Ky. (Upper Gage)	23	14	15	23.4	14
(Lower Gage)	34	12	16	37.3	14
Embarras:					
Ste. Marie, Ill.	18	11	14	20.21	13
Lawrenceville, Ill.	11	2 16	4 19	12.75 17.75	2 15
East Fork White:					
Seymour, Ind.	14	12	13	14.15	12
White:					
Spencer, Ind.	14	10	15	17.66	12
Newberry, Ind.	18	13	14	18.2	13
Edwardsport, Ind.	15	10	18	20.0	14
Petersburg, Ind.	16	11	20	19.87	17
Hazelton, Ind.	16	11	21	20.35	18
Little Wabash:					
Wilcox, Ill.	16	2 9 31	7 17 1/	#19.27 #21.11 #16.86	3 [illegible] 31
Lafayette, Ind.	11	10 30	[illegible] 1/	14.6 [illegible]	[illegible] [illegible]
Covington, Ind.	16	10 31	14 Feb 1	19.25 16.52	13 31
Montezuma, Ind.	14	10 30	17 Feb 3	20.35 16.95	13 Feb 1
Terre Haute, Ind.	14	10 30	17 Feb 3	17.9 15.8	14 Feb 1
Hutsonville, Ill.	20	14	17	20.4	16
Riverton, Ind.	18	15	18	18.26	16
Vincennes, Ind.	16	13	20	17.83	17
New Harmony, Ind.	15	16	21	#15.9	19
Harpeth:					
Kingston Springs, Tenn.	15	10	12	F21.0	[illegible]
Red:					
Port Royal, Tenn.	30	11	12	F34.[illegible]	11
South Chickamauga Creek:					
Chattanooga, Tenn.	[illegible]	11 25	[illegible] 27	10.73 12.[illegible]	11 26
Duck:					
Columbia, Tenn.	32	[illegible]	[illegible]	32.9[illegible]	11
Ohio Basin-continued					
Tennessee:					
Whitesburg, Ala.	[illegible]	26	[illegible]	[illegible]	[illegible]
Ohio River:					
Ford's Ferry, Ky., Dam 50	34	[illegible] 13	8 14	#34.2 #37.0	[illegible] [illegible]
Cairo, Ill.	40	14	[illegible]	[illegible]	1
White Basin					
Cache:					
Patterson, Ark.		1	1	[illegible]	[illegible]
Black:					
Pocahontas, Ark.	17	[illegible]	[illegible]	17.60	[illegible]
Black Rock, Ark.	14	11	[illegible]	16.5	[illegible]
White:					
Augusta, Ark.	[illegible]	[illegible]	[illegible]	31.1	[illegible]
Claredon, Ark.	26	11	[illegible]	27.1	[illegible]
St. Charles, Ark.	[illegible]	12	1/	25.3	[illegible]
Arkansas Basin					
Little Caney:					
Copan, Okla.	21	31	Feb [illegible]	[illegible]	[illegible]
Bird Creek:					
Avant, Okla.	16	31	[illegible]	#19.80	[illegible]
Sperry, Okla.	21	31	Feb [illegible]	#26.73	Feb 1
Owasso, Okla.	[illegible]	31		#25.47	[illegible]
Neosho:					
Commerce, Okla.	[illegible]	[illegible]	Feb [illegible]	[illegible]	[illegible]
Red Basin					
Ouachita:					
Camden, Ark.	[illegible]	12	[illegible]	[illegible]	[illegible]
Lower Mississippi Basin					
St. Francis:					
St. Francis, Ark.	18	11	21	[illegible]	[illegible]
Big Black:					
West, Miss.	12	Dec [illegible]	[illegible]	[illegible]	[illegible]
Bovina, Miss.	28	Dec 27	[illegible]	30.2 31.08	[illegible] 11
Amite:					
Denham Springs, La.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Atchafalaya Basin					
Atchafalaya:					
Morgan City, La.	[illegible]	22	[illegible]	[illegible]	[illegible]
WEST GULF OF MEXICO DRAINAGE					
Mermentau:					
Mermentau, La.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
West Fork Calcasieu:					
Sam Houston Park, La.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Calcasieu:					
Hineston, La.	[illegible]	[illegible]	[illegible]	A15.95	[illegible]
Oakdale, La.	[illegible]	[illegible]	[illegible]	12.28	[illegible]
Kinder, La.	16	Dec 31	[illegible]	[illegible]	[illegible]
Sabine:					
Deweyville, Tex.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Attoyac Bayou:					
Chireno, Tex. (near)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

FLOOD STAGE DATA

(All dates in January unless otherwise specified)

River and station	Flood stage	Above flood stages —dates From	To	Crest Stage	Date
	Ft			Ft	
[illegible]-Continued					
Angelina:					
[illegible]	8	[illegible]	1[illegible]	11.[illegible]	Nov 1[illegible]
Neches:					
Diboll, Tex. (near)	[illegible]	[illegible]	17	13.0	[illegible] 1[illegible]
Beaumont, Tex.	[illegible]	[illegible]	1[illegible]	[illegible]	1[illegible]
East Fork Trinity:					
Crandall, Tex.	1[illegible]	Nov 1[illegible]	7	A14.0	Dec 1[illegible]
		11	1[illegible]	13.5	1[illegible]
Trinity:					
Moss Bluff, Tex.	[illegible]	Oct [illegible]	19	[illegible]	10
PACIFIC SLOPE DRAINAGE					
South Fork Coquille:					
Myrtle Point, Ore.	3[illegible]	[illegible]	6	35.15	6
Wilson:					
Tillamook, Ore.	11	[illegible]	5	11.4	5
		13	16	13.1	13
Nehelam:					
Foss, Ore.	13	13	16	16.91	14
Walla Walla:					
Touchet, Wash.	11	2[illegible]	26	11.9	25
Umatilla:					
Pendleton, Ore.	8	25	26	11.5	25
South Yamhill:					
Willamina, Ore. (near)	5	[illegible]	10	9.8	[illegible]
Whiteson, Ore.	38	6	7	E38.3	6
PACIFIC SLOPE DRAINAGE-Continued					
Pudding:					
Aurora, Ore.	20	26	29	21.6	27
Tualatin:					
Farmington, Ore.	29	15	20	31.2	17
Johnson Creek:					
Sycamore, Ore.	8	25	26	10.7	25
Chehalis:					
Centralia, Wash.	65	14	16	65.8	15
Cedar:					
Renton, Wash.	9.5	17	18	9.7	18
Snoqualmie:					
Carnation, Wash	54	17	19	58.9	18
Snohomish:					
Snohomish, Wash.	25	17	19	#29.44	18
Stillaquamish:					
Arlington, Wash.	16	18	18	#16.15	18

A See Previous Monthly Reports for Additional Crest Information

B Above Flood Stage Entire Month

RAWINSONDE DATA

Average monthly values

ALBANY, NY
1009 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point *	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	31	86	-4.3	-7.2	28	.9
1000	26	175	-4.9	-9.3	28	1.7
950	31	558	-4.6	-8.9	26	4.1
900	31	982	-6.0	-10.8	27	6.8
850	31	1,429	-7.1	-13.7	27	9.9
800	31	1,901	-8.2	-15.2	27	12.9
750	31	2,401	-9.3	-17.7	27	15.7
700	31	2,933	-11.3	-20.8	27	18.7
650	31	3,500	-13.2	-22.4	27	21.6
600	31	4,106	-15.9	-25.7	26	24.7
550	31	4,757	-19.7	-28.8	26	27.5
500	31	5,459	-24.3	-32.7	27	29.8
450	31	6,219	-29.1	-36.0	26	30.6
400	30	7,059	-34.7	-41.2	26	31.9
350	30	7,982	-40.8	-43.6	26	36.3
300	30	9,014	-47.1		26	37.2
250	30	10,204	-53.1		26	39.9
200	28	11,625	-55.4		26	34.9
175	28	12,476	-55.5		26	33.4
150	27	13,465	-55.2		26	31.7
125	27	14,626	-56.9		26	29.4
100	27	16,030	-59.5		26	26.7
80	25	17,415	-60.3		27	20.0
70	25	18,250	-59.8		27	18.1
60	24	19,206	-59.9		27	14.2
50	22	20,346	-59.9		27	12.1
40	22	21,742	-59.1		27	9.9
30	18	23,569	-57.5		27	7.6
25	18	24,722	-57.1		27	7.7
20	15	26,135	-56.9			
15	10	27,952	-56.7			
10	5	30,514	-53.1			
7						

ALBUQUERQUE, NM
838 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point *	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	31	1,619	-4.7	-9.6	02	1.1
1000						
950						
900						
850						
800	31	1,989	-1.1	-11.2	31	2.7
750	31	2,503	-2.4	-14.0	30	6.7
700	31	3,049	-4.3	-15.7	30	9.3
650	31	3,630	-7.1	-19.5	30	11.2
600	31	4,250	-10.6	-23.5	30	13.6
550	31	4,914	-14.8	-27.8	29	15.0
500	31	5,629	-19.7	-31.8	29	17.2
450	31	6,403	-24.7	-36.9	29	19.5
400	31	7,250	-30.7	-41.4	29	18.7
350	30	8,187	-37.3	-45.7	29	19.1
300	30	9,231	-45.0		29	21.4
250	30	10,429	-52.3		29	23.6
200	30	11,857	-55.8		28	24.8
175	30	12,707	-56.1		28	22.8
150	30	13,684	-58.1		28	21.8
125	30	14,825	-60.8		28	18.6
100	30	16,197	-65.2		28	16.2
80	28	17,548	-65.6		27	11.7
70	27	18,366	-64.3		27	7.1
60	27	19,309	-64.0		27	4.8
50	27	20,432	-62.3		29	2.1
40	26	21,819	-60.4		35	1.4
30	24	23,624	-59.4		06	3.6
25	24	24,767	-59.1		07	5.4
20	24	26,168	-58.5		07	6.3
15	18	27,989	-56.6		07	7.4
10	6	30,599	-53.7			
7						

AMARILLO, TX
890 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point *	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	31	1,095	-1.6	-6.5	29	2.6
1000						
950						
900						
850	31	1,462	2.8	-8.1	29	5.3
800	31	1,954	2.4	-10.6	28	6.5
750	31	2,473	.4	-13.2	28	7.6
700	31	3,024	-2.4	-15.5	28	10.0
650	31	3,609	-5.5	-18.5	27	11.9
600	31	4,232	-9.5	-22.4	27	13.3
550	31	4,899	-14.2	-26.8	27	15.6
500	31	5,615	-19.4	-32.8	26	18.0
450	31	6,390	-24.8	-36.0	26	20.2
400	31	7,236	-31.1	-41.5	26	22.8
350	31	8,172	-37.7	-45.9	26	24.3
300	31	9,216	-44.7		27	26.0
250	31	10,418	-51.6		28	27.4
200	30	11,842	-55.8		27	26.8
175	30	12,693	-55.8		27	25.8
150	30	13,674	-56.8		28	24.9
125	29	14,821	-59.6		27	21.7
100	28	16,201	-63.4		27	18.3
80	27	17,563	-64.5		27	13.1
70	27	18,378	-64.7		27	11.3
60	26	19,324	-63.7		26	8.1
50	23	20,442	-62.3		27	3.8
40	22	21,820	-60.9		29	1.4
30	19	23,617	-59.4		06	1.7
25	16	24,768	-58.6		03	3.0
20	13	26,178	-57.7			
15	8	27,969	-56.9			
10						
7						

* ANCHORAGE, AK
1004 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point *	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	31	45	-10.5	-16.2	08	.6
1000	19	143	-12.1	-19.2	04	1.0
950	31	469	-8.8	-16.7	03	1.6
900	31	888	-9.9	-18.1	06	1.7
850	31	1,327	-11.9	-19.4	07	1.6
800	31	1,789	-14.2	-21.7	08	1.7
750	31	2,276	-16.8	-23.7	07	.6
700	31	2,792	-19.9	-26.5	22	.9
650	31	3,338	-22.9	-30.1	25	2.4
600	31	3,921	-26.5	-35.0	26	3.7
550	31	4,544	-30.7	-36.9	26	4.6
500	31	5,215	-35.2	-38.6	26	5.8
450	31	5,942	-39.8	-41.6	26	6.9
400	31	6,738	-45.1	-45.2	27	9.9
350	31	7,623	-50.1		27	12.2
300	31	8,618	-53.6		26	15.8
250	31	9,787	-54.5		26	17.3
200	31	11,227	-51.5		26	17.8
175	30	12,093	-50.8		26	18.9
150	30	13,097	-50.7		26	19.1
125	29	14,288	-51.1		26	19.8
100	29	15,739	-51.0		26	21.1
80	29	17,193	-50.4		26	20.6
70	29	18,066	-50.1		26	20.3
60	27	19,081	-50.3		26	19.6
50	26	20,265	-49.5		27	18.8
40	25	21,725	-49.3		26	17.3
30	22	23,602	-49.1		27	17.1
25	20	24,794	-47.3		27	14.7
20	18	26,271	-46.3		28	12.8
15	12	28,185	-45.2		28	7.5
10	10	30,933	-42.0			
7	6	33,412	-41.0			

* ANNETTE, AK
1008 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point *	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	31	37	-.8	-3.4	[illegible]	[illegible]
1000	22	144	-.5	-3.5	[illegible]	[illegible]
950	31	505	-2.7	-4.7	[illegible]	[illegible]
900	31	932	[illegible]	-7.9	[illegible]	[illegible]
850	31	1,379	[illegible]	-11.6	[illegible]	[illegible]
800	31	1,843	-10.2	-14.7	23	[illegible]
750	31	2,344	[illegible]	-18.1	24	[illegible]
700	31	2,867	-16.3	-23.1	25	[illegible]
650	31	3,421	-19.8	-27.2	[illegible]	[illegible]
600	31	4,010	-23.8	[illegible]	[illegible]	[illegible]
550	31	4,640	[illegible]	-35.7	26	[illegible]
500	31	[illegible]	-32.7	-41.0	27	14.9
450	31	6,053	[illegible]	-42.5	27	[illegible]
400	31	6,860	[illegible]	-44.5	27	[illegible]
350	31	7,759	-46.6		[illegible]	[illegible]
300	31	8,769	[illegible]		[illegible]	[illegible]
250	31	9,948	-52.9		[illegible]	[illegible]
200	31	11,394	-51.1		[illegible]	23.4
175	31	12,263	[illegible]		[illegible]	[illegible]
150	31	13,266	-51.4		[illegible]	[illegible]
125	31	14,448	[illegible]		[illegible]	[illegible]
100	30	15,887	[illegible]		[illegible]	[illegible]
80	29	17,325	[illegible]		[illegible]	[illegible]
70	29	18,185	[illegible]		[illegible]	[illegible]
60	29	19,180	[illegible]		[illegible]	[illegible]
50	29	20,355	[illegible]		[illegible]	[illegible]
40	28	21,787	[illegible]		[illegible]	[illegible]
30	[illegible]	23,640	[illegible]		[illegible]	[illegible]
25	25	24,814	[illegible]		[illegible]	[illegible]
20	21	26,250	[illegible]		34	[illegible]
15	19	28,123	[illegible]		36	[illegible]
10	15	30,753	[illegible]		[illegible]	[illegible]
7	10	33,139	-47.5			

ATHENS, GA
991 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point *	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	31	246	5.4	2.2	28	.4
1000						
950	31	593	7.4	1.0	24	3.8
900	31	1,038	7.0	-.8	24	6.9
850	31	1,507	5.9	-4.3	25	10.1
800	31	2,004	4.9	-5.2	25	12.9
750	31	2,528	2.6	-8.4	25	14.7
700	31	3,084	.1	-13.3	25	17.2
650	31	3,675	-2.9	-16.8	26	19.9
600	31	4,305	-6.5	-20.1	25	22.7
550	31	4,980	-10.6	-25.3	25	25.7
500	31	5,707	-15.4	-28.5	26	27.6
450	31	6,494	-21.1	-33.4	25	30.9
400	31	7,352	-27.5	-38.6	25	33.4
350	31	8,302	-34.6	-44.8	25	37.5
300	30	9,353	-43.2	-49.8	26	39.0
250	[illegible]	10,559	-51.8		25	42.4
200	30	11,979	-58.9		26	43.9
175	[illegible]	12,817	-59.0		26	41.2
150	[illegible]	13,782	-60.0		26	39.1
125	30	14,911	-63.6		26	34.4
100	30	16,265	-68.0		26	27.4
80	24	17,609	-69.6		26	19.8
70	24	18,411	-67.1		27	13.1
60	24	19,345	-65.8		27	9.2
50	24	20,455	-64.6		28	5.1
40	22	21,831	-62.9		32	1.5
30	21	23,611	-60.1		03	2.0
25	19	24,748	-59.0		04	2.8
20	19	26,152	-57.5		02	2.4
15	16	27,967	-55.9		02	[illegible]
10	7	30,592	-52.4			
7						

* BARROW, AK
1019 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point *	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	28	8	-32.3	-31.1	12	1.1
1000	28	141	-28.2	-28.4	10	2.0
950	28	513	-23.2	-25.4	09	2.4
900	28	911	-20.6	-25.2	07	.9
850	28	1,335	-20.5	-24.7	22	.2
800	28	1,783	-21.5	-26.2	29	1.1
750	28	2,257	-23.0	-28.2	29	2.4
700	28	2,761	-25.5	-30.2	28	4.0
650	28	3,296	-28.1	-33.3	28	4.8
600	28	3,866	-31.6	-35.6	28	5.7
550	28	4,477	-35.2	-38.0	27	7.2
500	28	5,135	-39.8	-38.5	27	7.1
450	27	5,859	-44.3	-41.2	27	7.8
400	27	6,639	-49.5		27	9.1
350	27	7,506	-54.6		27	11.3
300	27	8,480	-58.8		27	12.3
250	27	9,621	-59.4		27	12.8
200	27	11,028	-56.8		27	14.5
175	26	11,860	-55.8		27	14.8
150	25	12,832	-55.7		27	17.1
125	22	13,991	-55.8		27	18.9
100	21	15,420	-55.4		27	23.1
80	19	16,855	-55.1		27	25.2
70	18	17,718	-54.3		27	26.3
60	17	18,725	-53.5		27	28.5
50	13	19,912	-52.3		28	31.3
40	11	21,355	-51.7			
30	6	23,359	-52.7			
25						
20						
15						
10						
7						

BARTER ISLAND, AK
1019 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point *	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	28	15	-32.6	-31.3	28	1.3
1000	27	149	-29.8	-31.9	28	2.0
950	28	514	-24.0	-26.1	27	2.7
900	28	912	-20.6	-24.0	28	3.0
850	28	1,335	-20.8	-25.4	28	3.9
800	28	1,783	-21.8	-26.6	29	4.1
750	28	2,256	-23.6	-28.9	29	5.1
700	28	2,759	-25.7	-31.2	30	5.9
650	28	3,293	-28.1	-33.2	29	6.8
600	28	3,864	-31.2	-35.7	29	7.9
550	28	4,476	-35.0	-36.7	29	9.3
500	28	5,135	-39.1	-38.9	30	10.3
450	28	5,851	-43.6	-43.6	29	11.4
400	28	6,633	-49.0		29	12.4
350	28	7,503	-54.0		29	13.3
300	28	8,479	-58.3		29	14.4
250	28	9,624	-58.5		29	15.2
200	28	11,036	-55.4		29	16.6
175	28	11,890	-54.7		28	17.4
150	28	12,876	-54.8		28	18.9
125	28	14,043	-54.4		28	21.0
100	28	15,474	-54.2		28	23.7
80	28	16,908	-53.2		28	25.3
70	28	17,770	-52.8		28	28.8
60	28	18,766	-52.2		28	30.6
50	28	19,949	-51.1		28	31.2
40	28	21,402	-50.5		28	33.1
30	28	23,284	-49.0		28	32.3
25	28	24,484	-48.1		28	33.9
20	26	25,952	-47.8		28	33.0
15	24	27,840	-47.7		29	33.0
10	12	30,617	-44.0		28	29.7
7						

BETHEL, AK
1007 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point *	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	31	39	-18.7	-24.0	02	1.4
1000	22	149	-16.7	-19.5	03	1.0
950	31	479	-11.8	-16.1	05	1.7
900	31	894	-11.3	-18.4	04	.6
850	31	1,332	-12.4	-19.0	35	.4
800	31	1,793	-14.5	-20.7	29	.8
750	31	2,280	-17.2	-23.9	28	1.7
700	31	2,794	-20.3	-27.8	28	2.0
650	31	3,340	-23.6	-30.3	26	2.5
600	31	3,920	-27.4	-34.1	24	2.9
550	31	4,542	-31.6	-38.0	24	4.0
500	31	5,210	-36.1	-38.7	23	5.0
450	31	5,934	-40.8	-40.7	24	6.5
400	31	6,727	-46.1	-40.5	24	8.0
350	31	7,608	-51.1		25	9.4
300	31	8,599	-54.6		24	11.7
250	31	9,765	-54.0		25	13.3
200	30	11,203	-51.6		25	13.1
175	30	12,071	-50.9		25	14.7
150	30	13,076	-50.3		25	14.3
125	30	14,266	-50.7		25	15.1
100	30	15,720	-50.5		25	15.5
80	30	17,176	-50.3		25	16.1
70	30	18,048	-50.0		25	16.0
60	30	19,056	-49.8		25	15.7
50	30	20,251	-49.3		25	16.1
40	30	21,714	-49.0		26	13.5
30	29	23,604	-48.1		25	13.2
25	27	24,811	-48.7		26	12.2
20	24	26,285	-49.1		25	10.1
15	19	28,184	-48.0		25	8.8
10	10	30,765	-52.4			
7						

* BISMARCK, ND
953 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point *	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	31	503	-12.9	-16.2	30	2.3
1000						
950	21	543	-12.5	-15.5	31	2.7
900	31	945	-8.7	-12.5	30	[illegible]
850	31	1,390	-8.0	-15.8	31	10.2
800	31	1,860	-9.2	-18.3	31	[illegible]
750	31	2,357	-11.9	-21.0	31	[illegible]
700	31	2,883	-14.3	-24.4	31	13.6
650	31	3,442	[illegible]	-27.5	31	[illegible]
600	31	4,039	[illegible]	[illegible]	[illegible]	[illegible]
550	31	4,679	[illegible]	-33.3	30	[illegible]
500	31	5,368	-26.3	-37.9	30	[illegible]
450	31	6,117	-33.1	[illegible]	30	[illegible]
400	31	6,935	[illegible]	[illegible]	29	[illegible]
350	31	7,842	-45.4		29	24.5
300	31	8,852	[illegible]		[illegible]	[illegible]
250	30	10,020	-54.3		[illegible]	28.5
200	30	11,458	[illegible]		29	[illegible]
175	30	12,323	-51.8		[illegible]	[illegible]
150	30	13,323	[illegible]		[illegible]	[illegible]
125	30	14,501	-53.3		[illegible]	[illegible]
100	30	15,933	[illegible]		[illegible]	[illegible]
80	30	17,356	-55.0		[illegible]	[illegible]
70	29	18,208	-55.5		[illegible]	[illegible]
60	29	19,186	-55.9		[illegible]	[illegible]
50	29	20,341	-56.6		[illegible]	[illegible]
40	28	21,758	[illegible]		[illegible]	[illegible]
30	24	23,569	[illegible]		[illegible]	[illegible]
25	24	24,727	-55.5		32	[illegible]
20	23	26,135	[illegible]		33	7.4
15	17	28,001	-55.2		[illegible]	[illegible]
10	12	[illegible]	-52.9		[illegible]	[illegible]
7						

BOISE, ID
920 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point *	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	31	[illegible]	-3.6	[illegible]	15	.6
1000						
950						
900	31	1,047	-2.2	-7.8	21	.3
850	31	1,495	-2.4	-8.9	27	3.3
800	31	1,975	-4.5	-10.6	28	6.9
750	31	2,481	-7.0	-12.4	29	[illegible]
700	31	3,017	-9.9	-14.8	29	12.6
650	31	3,586	-12.6	-19.5	29	[illegible]
600	31	4,194	-15.7	-22.2	30	[illegible]
550	31	4,845	-19.3	-26.3	30	[illegible]
500	31	5,548	-24.0	-31.4	[illegible]	[illegible]
450	31	6,310	-28.9	-35.6	[illegible]	[illegible]
400	31	7,143	-34.4	-41.2	[illegible]	[illegible]
350	31	8,067	-40.5	[illegible]	[illegible]	[illegible]
300	31	9,098	-48.2		30	[illegible]
250	31	10,281	-54.3		30	34.4
200	31	11,703	-56.4		30	[illegible]
175	31	12,551	-55.8		30	[illegible]
150	31	[illegible]	-55.9		30	27.6
125	31	14,688	[illegible]		30	[illegible]
100	31	16,087	-60.3		30	17.8
80	31	17,475	[illegible]		29	[illegible]
70	31	18,306	-60.4		30	9.6
60	31	[illegible]	[illegible]		30	7.2
50	31	[illegible]	-59.3		32	[illegible]
40	31	21,808	-58.4		35	[illegible]
30	17	23,630	-58.2		02	3.9
25	25	[illegible]	-57.1		04	[illegible]
20	[illegible]	26,197	-56.7		05	7.1
15	19	28,020	-56.5		06	[illegible]
10						
7						

BOOTHVILLE, LA
1020 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point *	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	31	1	12.7	11.0	06	.9
1000	31	164	14.5	11.0	[illegible]	1.5
950	31	597	12.7	7.1	18	1.6
900	31	1,051	12.0	3.1	[illegible]	3.7
850	31	1,529	10.1	-.1	23	5.8
800	31	2,031	8.1	-4.8	24	7.9
750	31	2,562	6.2	-7.9	24	10.3
700	31	3,125	3.5	-12.5	24	11.6
650	31	3,723	.2	-14.8	24	13.1
600	31	4,360	-3.7	-18.0	24	14.7
550	31	5,042	-7.9	-22.5	24	16.9
500	31	5,776	-12.7	-27.0	24	18.9
450	30	6,571	-18.3	-32.0	24	21.4
400	30	7,439	-24.8	-37.7	24	24.0
350	30	8,399	-32.3	-43.7	24	27.2
300	30	9,464	-40.9	-52.0	24	29.3
250	30	10,679	-50.5		25	33.5
200	30	12,105	-58.3		25	35.3
175	30	12,944	-59.1		25	32.1
150	30	13,906	-61.2		25	29.7
125	30	15,025	-66.0		25	26.4
100	29	16,365	-71.0		25	22.3
80	27	17,681	-72.3		25	15.7
70	25	18,470	-71.2		[illegible]	[illegible]
60	24	[illegible]	-69.3		26	7.5
50	23	[illegible]	-66.3		[illegible]	4.2
40	22	21,848	-63.1		28	2.9
30	[illegible]	[illegible]	-60.4		28	[illegible]
25	20	24,769	-59.5		[illegible]	4.0
20	16	26,174	-57.7		33	1.6
15	[illegible]	28,016	-55.5		[illegible]	3.9
10						
7						

* BROWNSVILLE, TX
1017 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point *	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	31	7	13.4	11.1	29	.4
1000	30	153	14.7	12.4	16	1.7
950	31	583	14.4	9.0	17	4.6
900	31	1,040	13.2	4.4	18	5.7
850	31	1,520	12.0	.4	20	6.0
800	31	2,026	10.2	-2.3	22	5.7
750	31	2,561	8.2	-8.3	23	5.8
700	31	3,127	4.9	-11.5	24	6.6
650	31	3,728	1.1	-15.9	25	6.9
600	31	4,367	-3.0	-20.1	25	8.4
550	31	5,050	-7.2	-23.1	25	11.1
500	31	5,786	-12.2	-27.1	24	14.1
450	31	6,584	-17.8	-31.5	25	16.7
400	31	7,453	-24.6	-37.4	24	19.2
350	31	8,414	-31.9	-44.2	24	22.1
300	31	9,480	-40.6	-52.2	24	25.7
250	31	10,696	-50.3		24	28.2
200	31	12,123	-58.3		24	30.2
175	31	12,961	-59.7		25	27.3
150	31	13,919	-62.4		25	24.7
125	31	15,034	-66.7		24	22.8
100	31	16,366	-71.6		24	16.9
80	30	17,676	-73.3		24	12.4
70	29	18,460	-71.6		24	8.2
60	29	19,377	-69.0		24	5.7
50	28	20,475	-65.7		24	[illegible]
40	28	21,839	-63.2		27	3.9
30	21	23,622	-60.5		27	5.4
25	20	24,758	-59.2		27	6.6
20	19	26,161	-57.5		29	5.6
15	16	27,997	-53.7		29	5.8
10	8	[illegible]	-48.0			
7						

BUFFALO, NY
990 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point *	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	31	218	-2.1	-5.2	24	2.8
1000	5	236	-5.9	-8.7		
950	31	544	-3.6	-7.6	24	6.9
900	31	970	-5.4	-9.8	25	10.1
850	31	1,417	-7.2	-13.2	25	12.0
800	31	1,888	-8.7	-16.6	26	13.9
750	31	2,388	-10.0	-18.4	26	16.2
700	31	2,917	-12.1	-20.3	27	18.6
650	31	3,483	-14.1	-23.4	27	21.2
600	31	4,087	-16.7	-28.0	27	23.7
550	31	4,736	-20.3	-31.5	27	25.6
500	31	5,436	-25.0	-35.3	27	28.7
450	31	6,194	-29.8	-38.6	26	[illegible]
400	31	7,025	-35.2	-42.1	[illegible]	[illegible]
350	31	7,946	[illegible]	-45.2	26	[illegible]
300	31	[illegible]	-47.7		[illegible]	30.1
250	31	10,164	[illegible]		[illegible]	34.4
200	31	11,593	-55.1		[illegible]	[illegible]
175	30	[illegible]	-54.3		[illegible]	[illegible]
150	30	13,427	-54.7		[illegible]	31.2
125	30	14,590	-56.5		[illegible]	[illegible]
100	27	16,003	-58.3		[illegible]	23.5
80	23	17,411	-58.6		26	18.1
70	22	18,252	-59.1		[illegible]	[illegible]
60	20	19,215	-59.0		[illegible]	[illegible]
50	18	20,366	-58.5		[illegible]	[illegible]
40	17	21,764	-57.5		[illegible]	[illegible]
30	16	23,588	-57.7			
25	14	24,733	-56.9			
20	12	26,159	-55.9			
15	9	28,035	-54.4			
10	7	30,617	-53.4			
7						

CAPE HATTERAS, NC
1020 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point *	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	31	[illegible]	[illegible]	6.5	31	[illegible]
1000	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
950	31	598	[illegible]	2.3	26	[illegible]
900	31	1,045	[illegible]	[illegible]	[illegible]	[illegible]
850	31	1,514	[illegible]	-4.6	26	[illegible]
800	31	2,009	[illegible]	-9.1	26	[illegible]
750	31	2,533	[illegible]	[illegible]	[illegible]	[illegible]
700	31	[illegible]	.0	[illegible]	[illegible]	[illegible]
650	31	3,676	[illegible]	-17.1	26	[illegible]
600	31	4,308	-5.5	-20.8	26	[illegible]
550	31	[illegible]	-10.8	-24.8	26	26.9
500	31	5,708	[illegible]	-29.5	26	30.2
450	[illegible]	6,503	[illegible]	-33.6	26	33.7
400	[illegible]	[illegible]	-27.1	[illegible]	[illegible]	[illegible]
350	[illegible]	8,315	-34.2	-44.5	26	38.9
300	[illegible]	[illegible]	-42.2	-47.5	26	[illegible]
250	[illegible]	[illegible]	[illegible]		[illegible]	44.9
200	[illegible]	[illegible]	[illegible]		[illegible]	46.5
175	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
100	[illegible]	[illegible]	-67.3		[illegible]	[illegible]
80	26	17,622	[illegible]		[illegible]	23.7
70	24	18,427	[illegible]		[illegible]	[illegible]
60	22	19,358	[illegible]		[illegible]	11.9
50	21	20,474	[illegible]		[illegible]	7.1
40	[illegible]	[illegible]	[illegible]		[illegible]	6.3
30	17	23,620	[illegible]		[illegible]	[illegible]
25	13	24,782	[illegible]		[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]			
10						
7						

RAWINSONDE DATA

Average monthly values

JANUARY 1975

* CARIBOU, ME
991 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m p h)
SFC	31	191	-14.2	-18.3	31	1.7
1000	5	228	-20.7	-25.7		
950	31	515	-12.1	-15.2	29	3.9
900	31	929	-12.2	-15.5	28	6.1
850	31	1,366	-12.8	-19.1	28	8.8
800	31	1,828	-13.2	-20.1	27	11.9
750	31	2,319	-14.5	-22.5	27	13.9
700	31	2,841	-15.8	-23.8	27	16.0
650	31	3,397	-18.4	-26.9	27	17.9
600	31	3,990	-21.8	-29.3	27	19.6
550	31	4,627	-25.1	-33.7	27	22.1
500	31	5,313	-29.7	-37.0	27	25.0
450	30	6,045	-35.2	-42.0	27	27.1
400	30	6,857	-40.6	-43.1	27	31.0
350	30	7,759	-45.7		27	34.4
300	30	8,771	-51.0		27	39.2
250	30	9,950	-53.2		27	40.6
200	30	11,384	-53.5		27	39.1
175	29	12,236	-52.8		27	35.9
150	28	13,230	-53.7		26	35.7
125	28	14,400	-54.6		26	33.6
100	28	15,824	-56.5		26	30.7
80	28	17,235	-57.5		27	27.2
70	28	18,078	-57.9		27	25.1
60	26	19,032	-57.9		27	23.8
50	26	20,180	-58.4		27	22.7
40	26	21,585	-58.1		27	21.0
30	26	23,399	-57.3		27	19.1
25	24	24,565	-56.8		27	17.6
20	22	26,002	-56.0		27	14.2
15	19	27,855	-54.8		27	9.7
10	16	30,560	-51.4		32	3.7
7	6	32,875	-49.3			

CHARLESTON, SC
1019 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m p h)
SFC	31	13	9.4	6.7	28	.2
1000	31	170	11.2	5.9	23	.8
950	31	600	11.7	4.3	23	4.5
900	31	1,051	9.9	2.1	24	7.2
850	31	1,525	8.1	-2.1	24	9.3
800	31	2,025	6.8	-5.3	25	10.8
750	31	2,553	4.8	-8.6	25	13.9
700	31	3,113	1.9	-12.2	25	14.9
650	31	3,707	-1.3	-14.3	25	17.0
600	31	4,341	-5.1	-19.4	26	19.6
550	31	5,019	-9.2	-23.1	26	22.4
500	31	5,750	-14.0	-29.0	26	24.9
450	31	6,542	-19.5	-33.4	26	27.0
400	31	7,405	-26.0	-37.8	26	29.4
350	31	8,361	-33.2	-44.2	26	32.5
300	31	9,422	-41.6	-49.3	26	35.7
250	31	10,634	-50.8		26	39.9
200	31	12,057	-59.1		26	44.3
175	31	12,891	-60.1		26	42.4
150	31	13,852	-60.7		26	38.9
125	31	14,975	-65.3		26	34.0
100	30	16,317	-69.5		26	29.0
80	28	17,648	-70.9		26	21.0
70	28	18,440	-69.9		27	16.7
60	28	19,361	-68.4		27	11.4
50	26	20,461	-65.2		27	7.3
40	25	21,829	-63.1		27	4.5
30	24	23,608	-60.5		29	3.9
25	21	24,739	-59.0		30	4.2
20	20	26,137	-57.1		30	4.0
15	17	27,970	-55.4		29	4.3
10	10	30,559	-52.9			

CHATHAM, MA
1016 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m p h)
SFC	31	16	1.2	-2.0	31	1.1
1000	30	148	1.3	-3.9	30	1.9
950	31	553	-.9	-5.9	29	4.8
900	31	983	-2.7	-9.8	28	7.3
850	31	1,436	-3.8	-13.3	28	9.0
800	31	1,913	-5.1	-14.7	27	12.7
750	31	2,419	-6.5	-17.6	27	16.1
700	31	2,956	-8.9	-19.4	27	18.8
650	31	3,528	-11.0	-22.2	27	23.0
600	31	4,140	-14.1	-25.7	27	25.4
550	31	4,795	-18.1	-28.7	27	27.5
500	31	5,500	-23.0	-32.4	27	30.2
450	31	6,265	-28.0	-36.8	27	32.4
400	31	7,101	-33.4	-40.9	27	36.8
350	31	8,030	-39.2	-45.1	26	40.9
300	31	9,068	-46.2		27	45.8
250	31	10,263	-52.2		26	47.0
200	31	11,694	-55.9		27	43.6
175	30	12,548	-56.4		27	43.3
150	30	13,527	-56.7		27	39.2
125	28	14,672	-58.7		27	34.0
100	26	16,070	-60.2		27	28.9
80	24	17,457	-61.2		27	22.7
70	24	18,287	-60.8		27	18.4
60	23	19,247	-60.8		27	17.2
50	22	20,379	-60.8		27	13.4
40	21	21,774	-59.6		28	11.7
30	19	23,599	-58.6		29	8.3
25	18	24,748	-58.6		30	7.3
20	17	26,164	-57.1		29	5.3
15	15	27,992	-56.3		31	6.3
10	10	30,613	-52.9			

CHIHUAHUA, MEXICO
858 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m p h)
SFC	31	1,428	3.2	-3.6	24	1.7
1000						
950						
900						
850	29	1,515	6.1	-3.3	26	1.5
800	31	2,007	7.2	-5.4	26	3.5
750	31	2,536	5.2	-8.4	26	5.3
700	31	3,097	3.0	-12.6	26	7.7
650	31	3,694	-.5	-16.7	26	8.1
600	31	4,329	-4.6	-21.1	26	9.1
550	31	5,008	-9.4	-24.7	25	8.9
500	31	5,737	-14.7	-28.9	26	10.1
450	31	6,526	-20.5	-34.2	25	11.6
400	31	7,386	-26.9	-40.2	26	14.1
350	31	8,338	-34.3	-45.9	25	15.6
300	31	9,395	-42.6	-48.1	25	16.5
250	31	10,603	-51.2		25	19.6
200	31	12,030	-57.7		26	20.7
175	31	12,871	-58.1		26	18.9
150	31	13,838	-60.3		26	16.4
125	31	14,964	-64.6		26	16.0
100	31	16,315	-68.0		26	13.1
80	29	17,642	-70.3		26	10.8
70	29	18,437	-69.0		26	7.7
60	27	19,363	-67.1		26	5.0
50	24	20,471	-63.4		27	4.2
40	23	21,845	-61.8		28	2.2
30	23	23,635	-59.9		29	.8
25	23	24,777	-58.8		29	1.4
20	23	26,181	-57.7		30	1.9
15	17	28,002	-55.3		29	5.3
10	5	30,606	-51.3			

* COLD BAY, AK
1005 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m p h)
SFC	31	30	-4.3	-7.4	11	.1
1000	22	140	-4.2	-8.8	26	.9
950	31	469	-4.9	-10.3	29	1.3
900	31	893	-7.4	-13.3	29	2.4
850	31	1,336	-9.8	-16.7	28	2.2
800	31	1,802	-12.0	-19.9	27	2.3
750	31	2,294	-14.5	-23.3	25	3.5
700	31	2,814	-17.3	-25.9	26	5.2
650	31	3,366	-20.6	-28.9	26	6.7
600	31	3,954	-24.0	-32.6	25	8.5
550	31	4,584	-27.9	-36.2	25	10.3
500	31	5,263	-32.0	-39.6	25	11.5
450	31	6,001	-36.5	-42.1	25	11.7
400	31	6,808	-42.0	-45.2	25	13.9
350	31	7,702	-47.9		25	15.5
300	30	8,689	-53.6		24	17.9
250	29	9,853	-53.9		25	17.1
200	28	11,284	-50.4		25	16.8
175	27	12,160	-49.4		25	16.5
150	26	13,170	-49.8		25	17.0
125	26	14,364	-49.9		25	16.6
100	26	15,821	-50.2		25	16.6
80	26	17,273	-51.8		25	14.8
70	25	18,146	-50.9		25	12.8
60	25	19,151	-50.9		25	11.9
50	25	20,338	-50.8		25	11.2
40	24	21,797	-50.9		24	8.7
30	21	23,666	-49.1		23	7.4
25	21	24,863	-48.9		23	7.0
20	16	26,335	-49.7		22	4.6
15	8	28,227	-51.1			

DAYTON, OH
982 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m p h)
SFC	31	299	-1.0	-3.7	24	1.9
1000						
950	31	562	-1.4	-3.6	24	5.7
900	31	993	-2.3	-6.8	25	9.9
850	31	1,446	-3.3	-9.7	26	12.4
800	31	1,925	-4.3	-12.5	26	14.6
750	31	2,433	-5.9	-14.8	26	16.6
700	31	2,971	-7.9	-17.1	26	19.2
650	31	3,545	-10.2	-20.0	26	22.1
600	31	4,158	-13.8	-24.2	26	24.5
550	31	4,815	-17.5	-27.2	26	26.9
500	31	5,523	-21.6	-32.1	26	30.3
450	31	6,292	-26.7	-37.6	26	33.1
400	31	7,131	-32.9	-43.2	26	34.6
350	30	8,065	-39.0	-46.6	26	41.0
300	30	9,103	-46.3		26	45.4
250	30	10,296	-52.6		26	47.1
200	30	11,725	-55.1		26	45.7
175	30	12,577	-55.7		26	42.2
150	30	13,559	-56.0		26	40.1
125	30	14,715	-58.0		26	33.2
100	30	16,110	-61.0		27	26.1
80	30	17,490	-62.8		27	19.3
70	30	18,313	-62.8		27	17.4
60	28	19,261	-61.9		27	12.2
50	27	20,400	-61.0		27	9.2
40	26	21,793	-60.1		28	4.6
30	23	23,585	-59.2		30	4.4
25	20	24,726	-58.8		32	3.1
20	18	26,150	-57.5		03	4.8
15	16	27,954	-55.8		03	3.7
10	10	30,586	-51.8			

DEL RIO, TX
981 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m p h)
SFC	31	314	7.5	4.0	35	.6
1000						
950	31	579	10.4	2.1	21	.9
900	31	1,029	10.1	-.8	24	3.0
850	31	1,504	9.0	-4.9	27	4.0
800	31	2,004	7.2	-7.3	26	5.6
750	31	2,534	5.6	-11.1	26	7.4
700	31	3,095	2.5	-14.8	27	9.6
650	31	3,690	-1.0	-17.3	26	11.3
600	31	4,324	-4.9	-21.0	26	12.4
550	31	5,002	-9.7	-25.8	26	13.6
500	31	5,730	-14.8	-30.8	26	14.9
450	31	6,519	-20.6	-36.0	26	16.8
400	31	7,379	-27.2	-41.0	25	18.3
350	31	8,330	-34.3	-47.0	25	20.6
300	31	9,387	-42.3	-49.8	25	24.1
250	30	10,599	-50.8		26	27.7
200	30	12,027	-57.3		25	29.5
175	30	12,868	-58.9		25	27.1
150	30	13,831	-60.8		25	25.9
125	30	14,958	-64.4		26	21.8
100	29	16,305	-68.4		25	17.8
80	29	17,633	-70.7		25	13.4
70	29	18,427	-69.8		25	9.7
60	28	19,352	-67.4		25	6.6
50	28	20,458	-64.6		26	3.6
40	27	21,831	-62.4		28	1.8
30	25	23,616	-60.4		33	1.3
25	25	24,754	-59.5		35	1.5
20	25	26,156	-58.0		34	2.2
15	23	27,983	-56.0		31	2.3
10	13	30,579	-50.5			

DENVER, CO
834 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m p h)
SFC	31	1,611	-4.1	-11.7	26	1.5
1000						
950						
900						
850						
800	31	1,942	-1.0	-14.5	29	4.8
750	31	2,455	-3.0	-17.0	30	7.4
700	31	2,998	-6.4	-19.3	30	9.4
650	31	3,573	-10.0	-21.8	30	10.9
600	31	4,186	-14.0	-25.7	30	13.5
550	31	4,841	-17.9	-29.5	30	15.4
500	31	5,547	-22.7	-33.5	30	16.9
450	31	6,313	-27.3	-39.3	30	18.5
400	31	7,150	-33.5	-44.7	30	20.0
350	31	8,077	-40.5	-47.8	30	22.3
300	31	9,108	-47.7		30	24.0
250	31	10,297	-52.8		29	26.7
200	31	11,725	-55.6		28	24.5
175	30	12,573	-55.0		29	22.5
150	30	13,558	-55.7		29	21.8
125	30	14,714	-57.8		29	18.1
100	30	16,111	-60.6		28	15.0
80	29	17,493	-62.1		28	9.4
70	29	18,319	-62.0		28	7.7
60	29	19,273	-61.3		29	5.8
50	28	20,409	-60.2		30	4.2
40	28	21,804	-59.2		33	2.6
30	26	23,607	-58.6		02	3.2
25	26	24,753	-58.3		03	3.6
20	23	26,174	-56.9		06	6.0
15	17	28,036	-55.3		09	8.8
10						

DODGE CITY, KS
924 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m p h)
SFC	31	791	-3.4	-7.6	29	1.9
1000						
950						
900	31	998	-.9	-9.4	30	3.5
850	31	1,457	.4	-11.9	30	5.8
800	31	1,943	-.2	-13.3	29	8.2
750	31	2,457	-2.4	-15.7	29	11.1
700	31	3,002	-5.4	-17.3	28	13.7
650	31	3,581	-8.2	-19.7	28	15.7
600	31	4,198	-12.0	-22.6	28	16.8
550	31	4,858	-16.2	-26.4	27	19.1
500	31	5,569	-21.4	-33.0	27	20.2
450	31	6,337	-26.9	-37.7	27	22.7
400	31	7,177	-32.9	-43.4	27	25.0
350	31	8,107	-39.2	-45.7	27	27.1
300	31	9,144	-46.3		27	27.9
250	31	10,338	-53.1		27	31.0
200	30	11,773	-55.9		27	31.0
175	30	12,623	-55.6		27	29.1
150	30	13,606	-56.1		27	26.0
125	30	14,758	-58.7		27	24.7
100	27	16,142	-62.2		27	18.8
80	24	17,517	-63.5		27	12.4
70	24	18,339	-62.3		26	10.6
60	24	19,290	-62.5		28	6.5
50	24	20,419	-61.1		27	4.1
40	23	21,811	-60.1		32	1.6
30	23	23,610	-59.7		04	3.4
25	21	24,758	-58.9		05	4.3
20	20	26,168	-57.5		06	5.4
15	18	27,993	-56.5		07	5.3
10	8	30,611	-53.1			

EL PASO, TX
884 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m p h)
SFC	31	1,193	1.0	-5.3	28	.9
1000						
950						
900						
850	31	1,507	5.6	-8.4	29	2.4
800	31	2,001	3.7	-10.5	29	5.0
750	31	2,523	1.7	-11.9	28	7.1
700	31	3,076	-1.2	-14.7	27	9.0
650	31	3,664	-4.2	-18.6	27	11.1
600	31	4,291	-8.1	-21.6	27	12.4
550	31	4,961	-12.4	-26.0	28	14.3
500	31	5,682	-17.5	-31.3	28	16.4
450	31	6,463	-22.8	-36.3	27	18.0
400	31	7,316	-29.3	-42.0	28	19.4
350	31	8,259	-36.3	-48.8	27	19.2
300	31	9,308	-44.1		27	19.7
250	31	10,510	-52.0		27	20.2
200	31	11,935	-57.0		27	22.5
175	31	12,777	-58.3		27	22.4
150	31	13,746	-59.2		27	21.5
125	31	14,881	-62.5		27	16.9
100	31	16,242	-67.1		27	14.8
80	31	17,581	-68.8		27	10.4
70	31	18,381	-68.1		26	9.3
60	31	19,311	-65.9		27	5.6
50	30	20,426	-63.6		28	3.0
40	29	21,801	-61.5		32	1.5
30	28	23,596	-60.5		03	2.5
25	25	24,739	-59.4		03	3.3
20	23	26,139	-58.4		05	3.8
15	16	27,964	-56.1		03	3.6
10						

ELY, NV
810 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m p h)
SFC	30	1,908	-8.9	-12.8	19	3.2
1000						
950						
900						
850						
800	27	2,014	-3.7	-10.0	21	1.6
750	30	2,511	-4.1	-13.0	31	3.1
700	30	3,053	-6.3	-15.1	31	7.3
650	30	3,630	-9.0	-17.4	31	10.8
600	30	4,247	-12.2	-20.9	31	13.1
550	30	4,907	-16.3	-24.9	30	15.7
500	30	5,618	-20.8	-29.4	30	18.5
450	30	6,389	-25.6	-34.6	30	21.4
400	29	7,231	-31.6	-40.6	31	23.0
350	29	8,166	-38.3	-45.0	31	24.0
300	26	9,209	-46.4		32	24.6
250	26	10,401	-53.1		32	26.5
200	26	11,825	-57.1		31	28.6
175	24	12,681	-56.8		31	27.9
150	23	13,664	-58.0		31	25.1
125	23	14,805	-60.9		31	21.5
100	23	16,184	-64.0		30	19.6
80	23	17,544	-65.1		31	11.0
70	23	18,360	-64.5		32	7.5
60	22	19,302	-63.7		33	5.3
50	19	20,432	-61.5		35	2.9
40	18	21,823	-59.8		04	2.8
30	18	23,625	-59.0		06	4.9
25	18	24,768	-59.0		06	6.0
20	16	26,176	-58.5		06	7.1
15	10	28,015	-56.6			
10						

EMPALME, MEXICO
1015 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m p h)
SFC	30	12	9.6	2.9	32	1.4
1000	30	134	14.9	.7	34	2.2
950	30	570	16.6	-1.2	36	2.9
900	30	1,028	15.0	-3.2	33	1.1
850	30	1,509	12.5	-6.3	27	1.0
800	30	2,014	10.1	-8.5	28	1.3
750	30	2,548	7.6	-11.0	28	2.6
700	30	3,112	3.9	-14.4	29	2.8
650	29	3,711	.3	-18.1	29	4.3
600	29	4,348	-3.9	-21.8	29	5.4
550	29	5,029	-8.6	-26.0	28	6.8
500	29	5,760	-14.0	-30.4	28	8.3
450	29	6,551	-19.9	-35.4	28	9.2
400	29	7,412	-26.8	-41.3	28	10.2
350	29	8,365	-34.1	-46.9	28	10.0
300	29	9,422	-42.7	-49.5	27	11.3
250	29	10,628	-51.5		27	14.4
200	29	12,055	-57.4		27	14.0
175	29	12,897	-58.4		27	14.7
150	29	13,862	-60.7		27	14.6
125	29	14,988	-63.9		27	14.0
100	28	16,337	-68.6		27	13.6
80	27	17,666	-70.0		27	9.0
70	27	18,464	-68.7		26	7.1
60	24	19,397	-66.4		27	5.8
50	24	20,505	-64.4		27	5.4
40	23	21,880	-61.2		29	2.6
30	20	23,676	-59.6		28	1.3
25	18	24,814	-58.9		29	1.2
20	18	26,223	-57.1		29	2.4
15	12	28,059	-54.9		29	4.1
10						

* FAIRBANKS, AK
999 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m p h)
SFC	31	135	-27.4	-25.6	35	.4
1000	16	204	-29.5	-23.0	26	.6
950	31	501	-19.6	-22.0	09	1.0
900	31	904	-17.7	-21.4	17	.9
850	31	1,333	-16.9	-21.8	23	2.6
800	31	1,788	-17.8	-22.7	26	2.7
750	31	2,269	-19.4	-24.9	28	2.4
700	31	2,780	-22.2	-28.6	29	3.1
650	31	3,321	-25.4	-31.7	29	4.2
600	31	3,898	-29.1	-34.4	28	5.2
550	31	4,514	-33.4	-36.9	28	6.9
500	31	5,177	-38.0	-39.5	27	8.7
450	30	5,892	-43.2	-42.4	27	9.5
400	30	6,676	-48.5		27	10.9
350	30	7,547	-53.3		27	12.9
300	30	8,529	-56.7		27	14.5
250	30	9,683	-56.9		27	14.5
200	30	11,107	-53.9		27	17.2
175	30	11,968	-52.7		27	18.9
150	30	12,964	-52.5		27	20.3
125	30	14,144	-52.0		27	21.6
100	30	15,590	-51.7		27	23.3
80	29	17,041	-51.3		27	24.4
70	29	17,909	-51.2		27	25.6
60	29	18,913	-50.6		27	26.4
50	27	20,094	-49.6		27	26.4
40	26	21,566	-49.2		27	25.8
30	25	23,465	-48.6		27	23.9
25	23	24,661	-47.1		27	22.7
20	21	26,143	-46.3		27	21.6
15	16	28,111	-43.8		26	16.5
10						

FLINT, MI
986 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m p h)
SFC	31	236	-3.0	-6.7	23	2.3
1000						
950	31	528	-4.5	-6.4	24	5.6
900	31	953	-5.4	-8.5	25	9.8
850	31	1,401	-6.4	-12.7	26	11.7
800	31	1,874	-7.6	-15.5	26	13.0
750	31	2,375	-9.4	-18.1	26	15.2
700	31	2,906	-11.3	-21.1	26	17.2
650	31	3,473	-13.7	-23.2	26	19.5
600	31	4,078	-16.8	-27.6	27	20.6
550	31	4,727	-20.4	-31.5	26	23.6
500	31	5,426	-25.0	-35.7	26	27.2
450	31	6,185	-29.8	-38.4	26	30.9
400	31	7,015	-35.3	-44.3	26	34.6
350	31	7,936	-41.6	-45.6	26	38.3
300	31	8,964	-48.2		26	41.8
250	31	10,152	-53.0		26	44.0
200	31	11,586	-54.1		26	40.6
175	30	12,442	-52.7		26	36.5
150	30	13,435	-53.9		26	33.4
125	30	14,605	-55.0		26	30.3
100	30	16,021	-57.7		27	25.3
80	29	17,425	-59.1		27	20.0
70	28	18,271	-59.1		27	16.7
60	27	19,239	-58.9		27	13.6
50	24	20,396	-58.0		27	10.2
40	23	21,797	-57.8		28	7.5
30	20	23,625	-57.1		28	3.9
25	17	24,767	-56.7		31	4.2
20	14	26,194	-56.1		32	3.4
15	9	28,039	-54.5			
10						

GLASGOW, MT
932 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m p h)
SFC	31	696	-9.4	-13.5	33	1.2
1000						
950						
900	31	965	-6.3	-12.0	30	5.8
850	31	1,412	-6.6	-13.9	30	9.5
800	31	1,885	-8.3	-16.1	31	11.8
750	31	2,383	-11.2	-18.7	31	12.4
700	31	2,910	-14.5	-21.5	30	13.1
650	31	3,468	-17.5	-25.5	30	14.0
600	31	4,064	-20.9	-29.1	30	15.2
550	31	4,702	-24.6	-32.3	30	17.0
500	31	5,390	-28.8	-35.9	30	18.0
450	31	6,137	-33.4	-39.6	30	21.0
400	31	6,955	-38.8	-42.2	30	22.5
350	31	7,862	-44.9		30	24.0
300	31	8,876	-51.1		30	27.7
250	31	10,051	-54.6		30	29.5
200	31	11,486	-52.7		30	26.2
175	31	12,350	-51.6		30	23.6
150	31	13,350	-52.1		30	23.9
125	31	14,528	-53.0		30	22.0
100	31	15,963	-54.1		29	18.2
80	31	17,389	-55.5		30	17.5
70	31	18,240	-55.8		30	15.4
60	31	19,221	-56.2		30	13.0
50	30	20,381	-56.3		30	12.7
40	28	21,810	-55.9		31	10.9
30	28	23,644	-55.5		32	7.0
25	28	24,806	-55.3		33	6.8
20	24	26,237	-54.7		35	6.1
15	19	28,063	-54.2		36	5.8
10	6	30,674	-52.9			

RAWINSONDE DATA

Average monthly values

GRAND JUNCTION, CO
854 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	1,472	-9.8	-12.9	11	1.9
1000						
950						
900						
850	20	1,562	-8.3	-13.0	12	2.2
800	31	1,987	-5.3	-11.8	16	2.2
750	31	2,494	-5.9	-13.4	24	3.3
700	31	3,032	-8.1	-16.0	28	6.6
650	31	3,606	-10.6	-19.7	29	9.1
600	31	4,218	-14.0	-23.9	30	11.6
550	31	4,874	-17.3	-26.9	30	14.9
500	31	5,582	-21.9	-31.5	30	17.8
450	31	6,349	-27.1	-35.2	30	20.7
400	31	7,187	-33.3	-41.3	30	22.8
350	31	8,115	-40.0	-45.2	30	23.9
300	31	9,148	-47.5		30	26.1
250	30	10,335	-52.9		30	27.2
200	30	11,762	-55.8		30	28.0
175	30	12,614	-54.8		30	25.4
150	30	13,598	-56.0		30	23.8
125	29	14,750	-58.4		29	19.4
100	29	16,142	-62.3		28	13.7
80	28	17,510	-63.8		29	10.3
70	28	18,330	-62.6		29	8.1
60	26	19,283	-61.9		30	9.1
50	26	20,414	-60.7		31	3.8
40	24	21,817	-58.8		01	1.8
30	21	23,623	-58.4		03	3.2
25	15	24,774	-58.2		03	4.4
20	12	26,175	-56.6		05	5.6
15	9	28,021	-55.3			
10						
7						

* GREAT FALLS, MT
885 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	30	1,118	-6.3	-11.5	22	5.5
1000						
950						
900						
850	30	1,434	-4.8	-14.1	24	9.2
800	30	1,910	-6.8	-14.8	27	9.7
750	30	2,411	-9.9	-15.9	28	11.1
700	30	2,939	-13.3	-18.9	29	12.7
650	30	3,501	-16.2	-22.8	29	14.4
600	30	4,099	-19.7	-27.0	29	16.8
550	30	4,741	-23.2	-31.7	30	18.8
500	30	5,433	-27.6	-35.6	30	21.6
450	30	6,184	-32.3	-39.2	30	24.1
400	30	7,005	-37.9	-41.8	30	25.5
350	30	7,915	-44.1		30	27.8
300	30	8,932	-50.2		30	26.0
250	30	10,110	-54.2		30	29.0
200	30	11,541	-54.2		30	26.7
175	30	12,400	-53.2		30	24.6
150	30	13,395	-52.7		29	24.2
125	30	14,568	-54.2		29	21.2
100	28	15,989	-55.7		29	16.7
80	24	17,405	-56.2		29	13.3
70	22	18,259	-56.9		29	11.6
60	20	19,235	-57.2		30	10.8
50	18	20,391	-56.9		29	9.2
40	16	21,803	-56.7		30	8.0
30	14	23,644	-55.7		31	5.9
25	14	24,806	-55.6		33	6.3
20	14	26,232	-54.4		02	5.6
15	10	28,071	-54.0		05	6.4
10						
7						

GREEN BAY, WI
987 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	30	210	-7.5	-10.1	24	2.5
1000						
950	30	502	-7.9	-10.8	26	4.6
900	30	922	-8.9	-12.5	27	6.3
850	30	1,363	-9.6	-15.8	27	7.6
800	30	1,831	-10.3	-18.3	27	9.6
750	30	2,327	-11.8	-20.6	27	11.4
700	30	2,854	-13.6	-24.0	27	13.1
650	30	3,415	-16.1	-27.0	27	14.7
600	30	4,014	-19.4	-29.6	27	16.9
550	30	4,656	-23.3	-33.2	27	19.2
500	30	5,348	-27.9	-37.4	27	21.3
450	30	6,097	-32.9	-41.9	27	24.6
400	30	6,916	-38.2	-44.8	27	27.3
350	30	7,827	-43.7	-47.5	27	30.4
300	30	8,848	-49.3		26	33.1
250	30	10,034	-52.6		26	34.8
200	30	11,476	-52.5		26	32.4
175	30	12,340	-52.2		27	28.6
150	30	13,337	-52.6		27	28.5
125	30	14,510	-54.3		27	25.2
100	29	15,933	-56.5		27	24.6
80	29	17,344	-58.4		28	19.7
70	28	18,191	-58.8		28	17.9
60	28	19,160	-58.4		28	14.9
50	28	20,308	-58.1		28	13.4
40	27	21,709	-58.6		29	14.1
30	25	23,534	-58.2		30	9.1
25	20	24,668	-57.4		30	11.3
20	17	26,057	-57.0		31	10.4
15	14	27,867	-57.6		31	9.8
10						
7						

GREENSBORO, NC
987 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	275	2.4	-.6	25	.6
1000						
950	31	588	5.1	-2.0	27	4.3
900	31	1,030	4.9	-6.4	27	7.2
850	31	1,496	4.4	-9.6	27	10.2
800	31	1,989	3.0	-8.4	26	13.2
750	31	2,510	1.3	-11.7	26	15.9
700	31	3,063	-1.6	-15.1	26	18.7
650	31	3,650	-4.5	-18.3	26	21.1
600	31	4,276	-8.0	-21.0	26	23.9
550	31	4,948	-11.9	-24.6	26	28.7
500	31	5,670	-16.8	-28.7	26	31.9
450	31	6,453	-22.4	-33.0	26	33.7
400	31	7,308	-28.7	-38.2	26	37.1
350	31	8,253	-35.5	-42.7	26	41.1
300	31	9,305	-43.4		26	42.9
250	31	10,510	-51.8		27	45.7
200	31	11,932	-57.7		27	49.3
175	31	12,779	-58.6		27	45.8
150	31	13,741	-59.0		27	44.8
125	31	14,877	-62.6		27	37.1
100	29	16,234	-65.6		27	33.2
80	27	17,574	-66.0		27	23.6
70	26	18,387	-65.4		27	19.9
60	25	19,322	-64.3		27	14.6
50	25	20,441	-63.2		27	9.2
40	25	21,820	-61.3		29	5.4
30	24	23,615	-59.3		33	2.7
25	24	24,759	-58.5		01	1.4
20	23	26,162	-57.2		01	2.3
15	21	27,984	-55.2		31	4.2
10	15	30,600	-51.2		01	3.3
7						

GUADALUPE IS., MEXICO
1015 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	23	13.0	9.4	33	3.8
1000	31	158	12.9	6.1	33	4.2
950	31	590	13.7	-1.3	34	3.3
900	31	1,045	12.8	-5.1	35	3.8
850	31	1,523	10.7	-8.3	35	4.3
800	31	2,017	9.6	-10.8	34	4.7
750	31	2,560	7.2	-13.7	34	4.4
700	31	3,124	4.0	-16.6	33	4.2
650	31	3,722	.2	-19.7	33	4.7
600	31	4,358	-4.1	-23.7	31	4.9
550	31	5,038	-8.8	-27.8	31	5.0
500	31	5,767	-14.7	-32.0	31	5.3
450	31	6,556	-20.8	-36.0	32	5.8
400	31	7,415	-27.4	-42.0	32	5.6
350	31	8,365	-34.4	-47.6	31	6.0
300	31	9,423	-42.3	-53.4	30	7.9
250	31	10,633	-50.2		31	11.7
200	30	12,071	-56.2		31	14.8
175	30	12,916	-57.9		32	13.5
150	30	13,882	-60.6		31	10.7
125	29	15,006	-64.5		31	6.7
100	28	16,351	-68.4		30	3.7
80	27	17,676	-70.2		31	5.5
70	26	18,473	-68.6		31	3.7
60	26	19,399	-67.5		30	2.9
50	25	20,507	-64.4		32	1.9
40	24	21,881	-61.6		34	1.9
30	22	23,674	-59.6		01	1.2
25	20	24,820	-58.7		[illegible]	[illegible]
20	18	26,227	-57.1		27	2.5
15	9	28,067	-55.3			
10						
7						

* GUAM, MARIANA IS.
1000 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	111	24.6	22.2	08	4.1
1000	9	127	25.1	20.9		
950	31	557	22.3	19.1	07	10.0
900	31	1,027	19.4	15.7	08	10.7
850	31	1,517	16.7	9.8	08	9.7
800	31	2,033	14.9	3.3	08	9.0
750	31	2,578	13.0	-1.5	08	8.1
700	31	3,155	10.6	-7.4	08	7.9
650	31	3,769	7.7	-11.5	09	8.0
600	31	4,424	3.8	-15.1	10	7.7
550	31	5,125	-.4	-18.3	09	8.1
500	31	5,880	-5.0	-23.1	09	7.4
450	31	6,700	-10.0	-28.2	09	6.9
400	31	7,598	-16.0	-32.6	09	5.7
350	31	8,595	-22.6	-39.2	09	4.3
300	31	9,704	-31.1	-46.4	09	2.1
250	30	10,970	-41.3		16	1.9
200	30	12,445	-53.6		17	4.0
175	30	13,291	-60.5		17	3.7
150	30	14,233	-68.2		16	6.0
125	28	15,305	-76.4		15	7.9
100	26	16,564	-83.7		12	9.1
80	24	17,793	-84.6		10	10.2
70	21	18,539	-80.1		10	8.6
60	21	19,428	-71.7		09	8.1
50	21	20,523	-65.9		09	9.6
40	21	21,887	-63.1		09	12.3
30	20	23,679	-57.9		09	14.5
25	20	24,832	-56.8		09	12.0
20	20	26,257	-53.0		08	2.1
15	18	28,128	-48.6		29	8.0
10	12	30,817	-44.0		28	11.1
7						

HILO, HI
1015 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	10	19.5	15.8	22	1.1
1000	31	143	20.3	16.2	18	.9
950	31	584	17.2	14.4	12	2.9
900	31	1,044	14.1	11.8	11	4.0
850	31	1,525	10.9	8.5	11	4.2
800	31	2,030	8.3	2.8	10	4.0
750	31	2,562	6.8	-4.3	10	3.6
700	31	3,126	4.1	-10.0	10	3.3
650	31	3,726	1.1	-13.2	09	2.6
600	31	4,366	-2.6	-16.6	05	1.6
550	31	5,050	-7.1	-21.8	36	1.9
500	31	5,787	-11.9	-27.3	34	3.3
450	31	6,586	-17.0	-32.2	32	5.1
400	31	7,459	-23.4	-37.2	30	6.2
350	31	8,426	-29.7	-42.2	29	9.6
300	31	9,510	-35.3	-48.5	29	15.5
250	31	10,759	-43.2	-53.7	29	20.0
200	31	12,233	-52.0		29	22.1
175	31	13,088	-57.2		29	19.6
150	30	14,045	-63.4		30	19.3
125	30	15,148	-69.9		30	16.8
100	29	16,455	-76.5		31	9.5
80	27	17,731	-77.8		34	3.8
70	26	18,499	-75.4		03	2.0
60	26	19,403	-70.1		05	2.4
50	24	20,503	-65.4		09	1.9
40	23	21,874	-61.9		09	1.2
30	23	23,668	-59.2		01	1.6
25	23	24,813	-58.4		27	.8
20	23	26,220	-56.7		28	3.7
15	22	28,060	-52.5		28	5.2
10	13	30,709	-47.8			
7						

HUNTINGTON, WV
989 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	29	246	1.1	-2.4	25	1.2
1000						
950	29	573	2.1	-3.1	24	5.4
900	29	1,008	.2	-5.4	24	9.8
850	29	1,466	-.6	-9.3	25	12.4
800	29	1,950	-1.7	-11.1	26	14.6
750	29	2,462	-3.3	-12.6	25	17.6
700	29	3,006	-5.3	-14.7	26	20.2
650	29	3,585	-8.0	-17.3	26	22.7
600	29	4,204	-11.1	-21.5	26	26.0
550	29	4,867	-15.1	-26.3	26	29.4
500	29	5,582	-19.4	-30.5	26	31.3
450	29	6,357	-24.7	-35.5	26	33.8
400	28	7,208	-30.8	-39.8	26	36.3
350	28	8,146	-37.4	-44.1	27	40.8
300	28	9,190	-44.9		26	46.3
250	27	10,382	-51.7		26	48.2
200	26	11,806	-56.0		26	47.2
175	25	12,651	-55.9		26	42.8
150	25	13,630	-56.8		26	42.5
125	24	14,772	-58.9		26	36.8
100	23	16,160	-62.1		27	30.3
80	22	17,530	-62.9		27	22.3
70	21	18,355	-62.9		27	18.7
60	20	19,311	-62.5		27	14.0
50	17	20,450	-61.3		27	8.8
40	15	21,845	-59.4		28	5.5
30	13	23,645	-58.6		31	2.9
25	11	24,779	-58.1		31	5.1
20	9	26,162	-56.3			
15	6	28,003	-55.9			
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* INTERNATIONAL FALLS, MN
968 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	359	-14.8	-19.8	28	.9
1000						
950	30	509	-13.5	-15.2	27	2.4
900	31	911	-12.7	-15.9	28	4.7
850	31	1,347	-12.7	-17.4	29	6.6
800	31	1,810	-13.0	-18.6	30	8.1
750	31	2,301	-14.3	-20.9	30	9.1
700	31	2,822	-16.4	-23.2	30	9.6
650	31	3,377	-19.0	-24.5	30	10.2
600	31	3,969	-22.2	-27.6	29	11.4
550	31	4,604	-26.0	-31.7	29	12.3
500	31	5,288	-30.4	-36.2	29	14.2
450	31	6,030	-35.2	-39.5	28	14.6
400	31	6,842	-40.7	-42.5	28	15.3
350	30	7,740	-46.8		28	17.5
300	30	8,745	-52.8		27	18.9
250	30	9,916	-54.1		27	22.6
200	30	11,358	-51.4		28	23.9
175	30	12,226	-51.0		28	24.0
150	30	13,228	-51.6		28	22.9
125	30	14,410	-52.4		28	22.3
100	30	15,846	-54.1		28	21.4
80	29	17,280	-54.8		29	19.8
70	29	18,134	-55.4		29	18.1
60	29	19,116	-55.9		29	16.1
50	29	20,276	-56.1		29	15.4
40	26	21,696	-55.9		30	13.8
30	24	23,515	-56.2		31	11.8
25	22	24,674	-55.4		32	10.3
20	21	26,101	-55.2		33	8.4
15	16	27,931	-54.5		35	7.6
10	13	30,539	-53.0		02	6.7
7	6	33,036	-46.4			

JACKSON, MS
1008 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	100	8.2	6.0	21	1.4
1000	26	183	7.7	4.6	22	1.7
950	31	591	8.7	3.6	23	5.0
900	31	1,038	7.9	-.4	24	7.2
850	31	1,509	7.1	-4.1	25	9.7
800	31	2,007	5.4	-6.8	26	12.0
750	31	2,532	2.9	-8.3	26	13.2
700	31	3,088	-.2	-12.3	26	14.8
650	31	3,678	-2.8	-16.5	26	16.7
600	31	4,308	-6.3	-20.4	25	19.4
550	31	4,984	-10.4	-25.2	25	21.5
500	31	5,711	-15.3	-30.5	25	23.4
450	31	6,498	-20.8	-34.5	25	27.3
400	31	7,358	-27.1	-39.0	25	30.6
350	31	8,309	-34.2	-45.5	24	33.7
300	31	9,366	-42.4	-51.3	25	36.9
250	31	10,575	-51.2		25	39.8
200	31	12,001	-57.6		25	39.2
175	30	12,845	-58.0		25	35.9
150	29	13,816	-60.3		25	35.0
125	28	14,944	-64.3		25	31.3
100	28	16,294	-68.4		26	23.4
80	26	17,624	-69.1		26	19.0
70	26	18,422	-68.5		25	14.9
60	26	19,350	-67.1		26	10.1
50	26	20,458	-64.7		26	6.9
40	25	21,826	-62.7		29	3.9
30	22	23,601	-60.7		29	4.1
25	20	24,737	-59.5		30	4.1
20	19	26,140	-58.1		33	2.9
15	15	27,966	-56.4		30	4.3
10	8	30,584	-52.1			
7						

JOHN F. KENNEDY INT. AP NY
1018 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	5	1.7	-4.8	29	2.4
1000	30	160	.6	-4.8	32	2.9
950	31	563	-.8	-6.8	31	5.0
900	31	994	-2.1	-9.5	28	6.1
850	31	1,448	-3.1	-11.5	27	8.7
800	31	1,927	-4.3	-14.6	27	11.9
750	31	2,435	-5.6	-15.5	27	15.8
700	31	2,974	-7.4	-19.4	27	18.8
650	31	3,549	-10.1	-20.3	27	21.2
600	31	4,162	-13.6	-22.9	27	23.6
550	31	4,819	-17.6	-27.4	27	26.6
500	31	5,527	-22.0	-32.2	27	29.7
450	31	6,294	-27.1	-36.6	27	33.0
400	31	7,133	-32.8	-40.9	27	36.2
350	31	8,063	-39.1	-43.2	27	39.2
300	31	9,102	-45.8		27	43.2
250	31	10,298	-52.2		27	48.7
200	31	11,729	-55.9		27	43.6
175	30	12,575	-56.6		27	42.5
150	29	13,548	-57.0		27	40.2
125	29	14,700	-58.3		27	35.8
100	26	16,090	-60.6		27	31.6
80	25	17,478	-62.2		27	23.7
70	25	18,306	-61.3		27	20.9
60	25	19,263	-61.4		27	17.0
50	25	20,396	-60.6		27	14.4
40	25	21,789	-59.7		28	10.8
30	24	23,590	-58.3		28	9.1
25	22	24,736	-57.7		28	7.9
20	21	26,150	-57.0		29	5.2
15	15	27,995	-55.2		33	2.6
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JOHNSTON IS., PACIFIC AREA
1012 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	3	24.4	19.8	08	5.9
1000	31	111	23.3	18.8	07	6.5
950	31	557	19.6	16.6	08	7.2
900	31	1,021	16.1	12.7	08	7.0
850	31	1,505	13.1	8.2	08	6.6
800	31	2,014	11.4	-1.8	08	6.1
750	31	2,551	9.3	-7.3	07	5.0
700	31	3,120	7.1	-12.7	05	4.8
650	31	3,727	4.5	-15.5	04	4.5
600	31	4,375	1.2	-18.9	02	4.3
550	31	5,069	-2.9	-22.7	36	5.3
500	31	5,817	-7.6	-26.9	35	6.8
450	31	6,629	-12.9	-31.3	34	9.1
400	31	7,517	-18.7	-36.4	33	11.4
350	31	8,503	-24.7	-41.5	32	13.8
300	31	9,606	-31.7	-47.4	31	14.3
250	31	10,873	-40.4	-53.6	29	15.8
200	31	12,357	-51.9		29	15.4
175	31	13,209	-58.7		29	15.6
150	31	14,160	-66.2		29	14.3
125	31	15,245	-73.8		30	12.2
100	31	16,523	-80.8		31	7.7
80	31	17,770	-82.4		03	3.6
70	31	18,522	-79.2		08	4.9
60	31	19,413	-71.4		09	4.9
50	31	20,511	-65.0		09	5.4
40	31	21,882	-62.2		09	7.9
30	31	23,675	-58.2		08	6.8
25	30	24,826	-56.8		07	5.0
20	29	26,244	-55.4		01	1.2
15	27	28,089	-51.8		28	5 3
10	23	30,753	-45.9		26	13.0

KEY WEST, FL
1019 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	3	21.7	18.8	10	2.7
1000	31	167	21.2	18.4	10	4.1
950	31	610	18.2	14.8	11	5.1
900	31	1,072	15.3	10.6	13	4.4
850	31	1,554	12.2	7.9	16	3.3
800	31	2,062	10.5	1.6	17	2.9
750	31	2,598	8.5	-6.3	17	2.6
700	31	3,165	6.0	-12.5	20	2.7
650	31	3,769	3.8	-15.8	21	3.7
600	31	4,415	.4	-18.9	22	4.1
550	31	5,107	-4.2	-23.0	23	5.3
500	31	5,851	-9.6	-28.5	24	6.7
450	31	6,656	-15.2	-32.7	24	8.3
400	31	7,534	-21.8	-36.8	24	10.0
350	31	8,506	-29.2	-42.0	25	12.3
300	31	9,585	-37.9	-50.6	25	14.5
250	31	10,814	-48.2		25	16.4
200	31	12,249	-58.5		25	20.4
175	31	13,082	-61.6		25	22.1
150	31	14,033	-63.6		25	21.9
125	30	15,137	-68.5		25	18.1
100	30	16,456	-74.0		25	13.8
80	30	17,747	-76.5		24	7.3
70	30	18,518	-75.3		24	4.1
60	29	19,421	-71.9		23	1.6
50	29	20,512	-66.1		26	2.4
40	28	21,881	-61.6		29	4.1
30	28	23,675	-59.3		28	6.7
25	28	24,819	-58.5		28	8.4
20	28	26,229	-56.3		28	7.3
15	25	28,074	-52.4		27	11.0
10	13	30,725	-46.4			

KING SALMON, AK
1007 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	15	-15.8	-15.8	07	.8
1000	22	137	-14.6	-19.5	01	2.0
950	31	460	-10.0	-15.2	03	3.4
900	31	877	-10.4	-16.1	36	2.3
850	31	1,317	-11.5	-16.8	32	2.4
800	31	1,781	-13.2	-20.0	30	3.0
750	31	2,270	-15.4	-22.9	29	3.2
700	31	2,789	-18.2	-26.6	28	4.5
650	31	3,339	-21.7	-29.2	28	5.0
600	31	3,924	-25.2	-33.0	27	6.0
550	31	4,551	-29.2	-37.0	27	7.8
500	31	5,226	-33.9	-38.4	26	8.3
450	31	5,957	-38.9	-40.0	25	10.2
400	31	6,756	-44.0	-44.7	25	13.2
350	31	7,646	-48.5		26	16.4
300	31	8,648	-52.5		26	18.3
250	31	9,820	-53.9		26	18.9
200	31	11,262	-51.0		25	17.5
175	30	12,125	-50.6		25	18.4
150	30	13,132	-50.0		26	19.5
125	30	14,324	-50.3		26	18.9
100	30	15,780	-50.2		26	18.8
80	29	17,240	-50.6		26	18.1
70	26	18,087	-49.6		25	18.7
60	26	19,097	-49.8		25	17.9
50	26	20,290	-49.6		25	16.3
40	22	21,755	-48.5		25	14.1
30	22	23,646	-48.6		26	13.2
25	19	24,849	-48.1		26	10.7
20	13	26,315	-46.9		25	9.4
15	6	28,232	-46.4			
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◆ KOROR, CAROLINE IS.
1007 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	30	30	26.8	24.1	06	3.2
1000	29	91	26.1	23.5	05	4.6
950	30	539	22.9	21.0	06	8.3
900	30	1,010	19.9	17.4	06	9.0
850	30	1,502	17.2	13.8	06	8.3
800	30	2,019	15.0	10.1	06	7.6
750	30	2,565	12.6	4.7	06	7.1
700	30	3,141	9.8	.5	07	6.1
650	30	3,754	6.7	-4.2	08	7.0
600	30	4,408	3.3	-8.6	09	8.6
550	30	5,109	-.7	-12.4	09	9.5
500	30	5,864	-5.0	-17.5	09	10.1
450	30	6,686	-9.7	-22.0	09	10.2
400	30	7,586	-15.1	-27.4	10	9.5
350	30	8,585	-22.1	-34.1	10	9.2
300	30	9,697	-30.4	-41.4	10	9.3
250	30	10,966	-40.8	-50.4	10	8.8
200	29	12,443	-53.2		11	10.1
175	28	13,292	-60.0		11	10.9
150	28	14,237	-67.6		11	12.7
125	28	15,314	-75.3		10	13.8
100	28	16,581	-82.9		10	14.5
80	28	17,817	-82.7		09	12.8
70	28	18,574	-76.2		09	10.2
60	26	19,480	-69.0		09	9.5
50	26	20,582	-65.2		09	14.1
40	26	21,951	-62.2		09	20.7
30	24	23,755	-56.2		09	24.0
25	24	24,923	-52.1		10	18.4
20	21	26,384	-49.2		19	[illegible]
15	14	28,275	-47.7		27	15.1
10	6	31,011	-43.5			

RAWINSONDE DATA

Average monthly values

JANUARY 1975

KOTZEBUE, AK — 1015 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	28	5	-22.6	-26.2	10	3.2
1000	23	140	-19.9	-24.6	10	3.4
950	28	495	-16.2	-20.7	10	3.2
900	28	903	-15.9	-21.0	13	2.0
850	28	1,334	-16.2	-22.4	17	1.6
800	28	1,789	-17.6	-22.8	23	1.1
750	28	2,270	-20.0	-25.4	25	1.7
700	28	2,779	-23.0	-29.1	25	2.7
650	28	3,319	-26.0	-32.3	25	3.2
600	28	3,894	-29.7	-36.4	26	3.4
550	28	4,509	-33.6	-36.3	26	4.1
500	28	5,171	-38.4	-38.0	26	4.8
450	28	5,888	-43.6	-41.2	26	5.5
400	28	6,670	-49.2		25	6.2
350	28	7,538	-54.5		25	7.9
300	28	8,512	-58.6		25	10.6
250	27	9,661	-57.9		25	12.2
200	27	11,080	-54.2		26	14.3
175	27	11,939	-53.4		26	15.7
150	27	12,932	-52.9		26	16.6
125	27	14,110	-52.6		26	19.1
100	27	15,554	-51.7		26	21.9
80	27	17,002	-51.3		26	24.0
70	27	17,871	-51.0		26	25.5
60	27	18,875	-50.5		26	25.8
50	27	20,067	-49.8		26	24.9
40	26	21,524	-48.5		26	27.0
30	21	23,404	-47.4		26	27.2
25	18	24,619	-47.2		26	27.2
20	13	26,101	-47.8		27	24.4
15	6	28,017	-47.4			
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KWAJALEIN, MARSHALL IS. — 1009 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	5	4	27.0	23.1		
1000	5	82	26.4	22.8		
950	5	533	23.0	21.0		
900	5	1,004	19.7	17.7		
850	5	1,496	17.2	13.8		
800	5	2,014	15.6	7.7		
750	5	2,560	13.3	2.2		
700	5	3,139	10.9	-3.9		
650	5	3,753	7.6	-9.1		
600	5	4,408	4.1	-11.8		
550	5	5,110	-.1	-14.8		
500	5	5,867	-4.6	-22.4		
450	5	6,690	-8.8	-26.3		
400	5	7,592	-15.4	-35.6		
350	5	8,588	-21.6	-41.1		
300	5	9,706	-29.9	-44.8		
250	5	10,977	-40.4	-51.1		
200	5	12,458	-52.6	-60.6		
175	5	13,306	-60.0			
150	5	14,248	-68.5			
125	5	15,318	-76.8			

LAKE CHARLES, LA — 1019 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	31	5	11.0	9.2	07	1.3
1000	30	164	12.0	8.0	14	1.2
950	31	589	11.6	5.5	20	4.9
900	31	1,040	10.4	1.4	22	5.7
850	31	1,515	8.8	-2.3	23	7.1
800	31	2,016	7.0	-6.7	24	8.5
750	31	2,544	4.4	-9.8	25	9.7
700	31	3,103	1.9	-13.0	25	11.6
650	31	3,698	-1.1	-17.8	25	13.0
600	31	4,332	-5.0	-22.5	25	14.2
550	31	5,009	-9.6	-26.8	25	15.3
500	31	5,738	-14.4	-30.9	25	18.4
450	31	6,529	-19.7	-34.3	25	22.0
400	31	7,393	-26.1	-39.5	24	25.4
350	31	8,348	-33.3	-46.0	25	28.8
300	31	9,410	-41.3	-52.5	25	31.3
250	31	10,624	-50.5		25	34.8
200	31	12,052	-57.4		25	34.9
175	31	12,894	-58.3		25	32.0
150	30	13,861	-60.1		25	30.2
125	29	14,989	-65.0		25	27.9
100	28	16,337	-69.2		25	21.9
80	27	17,664	-70.4		25	15.9
70	27	18,460	-69.5		25	11.8
60	25	19,383	-68.1		25	9.9
50	23	20,487	-65.0		26	5.6
40	23	21,857	-62.3		25	3.1
30	21	23,645	-60.2		25	1.7
25	20	24,787	-59.2		29	1.4
20	18	26,190	-57.6		35	2.0
15	13	27,996	-55.7		32	1.6
10	7	30,597	-51.1			

LANDER, WY — 826 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	31	1,697	-8.9	-14.4	23	1.1
1000						
950						
900						
850						
800	31	1,943	-4.7	-14.7	23	.8
750	31	2,450	-6.3	-17.2	29	3.7
700	31	2,987	-8.9	-18.4	29	8.2
650	31	3,557	-12.5	-20.6	29	12.5
600	31	4,165	-15.7	-24.9	30	17.6
550	31	4,816	-19.3	-28.9	30	20.9
500	31	5,519	-22.9	-33.8	30	22.2
450	31	6,280	-29.3	-37.6	29	23.6
400	31	7,111	-35.5	-42.6	29	25.8
350	31	8,032	-41.8	-48.1	29	27.9
300	31	9,059	-48.3		29	30.1
250	31	10,243	-54.5		29	29.3
200	31	11,665	-56.1		29	27.2
175	31	12,517	-54.2		29	26.8
150	31	13,508	-54.1		29	24.8
125	31	14,671	-56.7		29	19.8
100	31	16,076	-59.4		28	17.6
80	31	17,473	-59.6		28	13.4
70	31	18,306	-60.3		29	10.3
60	31	19,269	-59.9		30	7.6
50	31	20,408	-59.4		30	6.2
40	29	21,819	-57.6		33	3.4
30	26	23,634	-58.1		35	3.4
25	24	24,781	-57.5		01	3.4
20	20	26,202	-57.0		05	5.9
15	15	28,024	-56.0		03	5.5
10	[illegible]	30,643	-53.0			

LIHUE KAUAI, HI — 1012 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	31	36	21.1	18.0	06	2.6
1000	31	142	21.3	16.7	07	3.4
950	31	585	17.8	14.6	08	5.2
900	31	1,046	14.5	11.6	08	5.1
850	31	1,527	11.3	7.4	09	4.3
800	31	2,033	9.3	1.3	11	3.3
750	31	2,567	7.9	-6.2	12	2.5
700	31	3,133	4.8	-10.0	14	1.7
650	31	3,734	1.7	-14.6	15	1.4
600	31	4,375	-1.9	-18.7	20	.5
550	31	5,061	-6.3	-23.9	32	1.6
500	31	5,800	-11.2	-27.9	30	3.3
450	31	6,599	-17.0	-32.3	29	3.9
400	31	7,472	-23.7	-37.5	30	6.2
350	31	8,438	-30.1	-44.0	31	10.5
300	31	9,519	-36.0	-48.6	30	17.2
250	31	10,769	-42.6	-53.5	30	21.8
200	31	12,246	-51.6		30	23.7
175	31	13,103	-56.7		30	25.5
150	31	14,066	-62.9		30	22.4
125	30	15,175	-69.5		30	17.5
100	30	16,483	-76.0		30	10.9
80	27	17,761	-78.4		32	4.9
70	27	18,528	-75.0		01	2.8
60	27	19,433	-71.0		07	3.2
50	27	20,527	-65.2		09	2.3
40	26	21,901	-62.2		20	.5
30	25	23,695	-59.3		32	2.5
25	25	24,839	-58.4		31	1.9
20	23	26,246	-57.0		27	2.0
15	22	28,083	-53.1		28	4.3
10	19	30,725	-47.8		27	9.9
7	7	33,059	-44.8			

LITTLE ROCK, AR — 1010 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	31	79	4.2	1.5	27	.4
1000	28	171	4.9	-.7	28	.7
950	31	576	6.0	-1.5	26	4.9
900	31	1,019	5.1	-5.5	26	7.0
850	31	1,485	4.2	-8.6	26	9.6
800	31	1,977	2.9	-12.0	26	11.5
750	31	2,498	.7	-14.1	26	13.2
700	31	3,049	-2.6	-17.3	26	14.5
650	31	3,634	-5.2	-19.7	26	16.5
600	31	4,259	-8.8	-22.6	26	19.8
550	31	4,927	-12.9	-26.8	26	22.0
500	31	5,650	-17.9	-31.6	26	25.0
450	30	6,430	-23.2	-36.2	26	27.5
400	30	7,282	-29.3	-42.2	26	29.8
350	30	8,225	-36.4	-47.5	26	31.6
300	30	9,273	-44.3		26	34.7
250	30	10,474	-51.8		26	40.0
200	29	11,906	-57.0		26	41.5
175	29	12,753	-56.5		25	38.9
150	29	13,729	-57.9		25	36.6
125	29	14,870	-61.3		26	32.4
100	29	16,240	-65.3		26	24.3
80	27	17,595	-66.4		26	18.5
70	26	18,402	-65.7		26	14.4
60	26	19,340	-65.0		26	9.5
50	26	20,458	-62.7		27	5.7
40	24	21,839	-61.6		30	2.8
30	22	23,628	-59.8		36	2.1
25	18	24,776	-58.9		04	3.7
20	17	26,184	-57.8		05	3.4
15	14	28,008	-55.8		04	4.5
10						

MCGRATH, AK — 1001 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	29	103	-25.8	-21.2	01	.6
1000	16	196	-27.7	-27.2	01	.5
950	29	490	-17.4	-19.7	07	2.1
900	29	898	-13.8	-17.9	10	2.8
850	29	1,333	-13.3	-18.8	12	2.0
800	29	1,794	-14.2	-20.6	18	1.1
750	29	2,282	-16.6	-22.7	25	2.0
700	29	2,798	-19.4	-26.1	28	2.4
650	29	3,345	-23.2	-29.8	27	2.9
600	29	3,926	-27.1	-33.4	27	3.7
550	29	4,548	-31.0	-37.8	28	4.7
500	29	5,218	-35.6	-38.7	27	5.1
450	28	5,951	-40.3	-42.5	25	6.7
400	28	6,744	-46.0	-44.6	24	9.2
350	28	7,624	-51.8		25	11.6
300	28	8,612	-55.3		25	11.8
250	28	9,774	-55.2		26	13.8
200	28	11,209	-52.0		26	15.4
175	28	12,076	-51.1		26	16.5
150	28	13,081	-50.4		26	18.2
125	28	14,269	-51.2		26	19.6
100	27	15,716	-50.8		26	21.2
80	27	17,170	-50.4		26	21.2
70	27	18,043	-50.1		27	21.8
60	27	19,051	-49.9		26	21.0
50	27	20,243	-49.9		27	21.4
40	26	21,709	-49.7		27	19.0
30	20	23,597	-49.9		27	18.4
25	15	24,773	-47.5		27	18.7
20	9	26,215	-46.3			

MAJURO, MARSHALL IS. — 1009 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	31	3	28.0	22.9	07	6.8
1000	31	83	26.8	21.4	06	8.4
950	31	536	23.0	19.6	06	10.7
900	31	1,006	19.7	15.8	07	10.4
850	31	1,497	17.1	11.4	08	9.4
800	31	2,014	15.4	6.5	08	7.0
750	31	2,560	13.7	1.3	09	5.8
700	31	3,139	11.2	-4.3	09	5.8
650	31	3,755	8.4	-10.1	08	7.0
600	31	4,412	4.9	-13.3	08	8.2
550	31	5,116	.8	-17.1	08	10.7
500	31	5,875	-3.9	-21.3	08	11.2
450	31	6,700	-8.4	-26.1	08	11.2
400	31	7,604	-14.0	-31.3	07	8.4
350	31	8,607	-20.6	-37.6	06	5.4
300	30	9,727	-28.7	-43.7	04	1.7
250	30	11,005	-39.0	-52.1	25	2.4
200	30	12,495	-51.3		24	4.6
175	30	13,350	-58.1		24	4.0
150	30	14,303	-66.0		24	2.0
125	30	15,388	-74.0		07	1.7
100	30	16,660	-82.6		08	8.5
80	30	17,893	-84.9		09	13.2
70	30	18,642	-78.2		09	10.6
60	30	19,543	-69.7		09	9.4
50	30	20,643	-65.0		09	14.6
40	30	22,015	-61.5		09	22.2
30	30	23,824	-54.7		09	24.0
25	28	25,001	-51.0		09	13.1
20	26	26,462	-49.0		26	1.8
15	22	28,357	-47.2		27	13.3
10	9	31,071	-42.6			

MEDFORD, OR — 976 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	31	401	1.6	-.7	12	.1
1000						
950	31	617	1.2	-.3	22	.8
900	31	1,054	2.2	-3.4	23	1.9
850	31	1,515	1.5	-6.9	25	3.6
800	31	2,007	-.4	-9.5	27	6.5
750	31	2,516	-2.8	-12.8	28	9.9
700	31	3,060	-5.7	-16.2	29	12.3
650	31	3,638	-8.8	-19.1	29	14.1
600	31	4,254	-12.2	-24.0	29	16.6
550	31	4,914	-16.4	-27.8	30	18.9
500	31	5,625	-20.8	-33.4	30	22.0
450	31	6,396	-26.1	-37.7	30	23.2
400	31	7,239	-31.8	-41.4	30	25.1
350	31	8,172	-38.3	-45.7	30	27.7
300	31	9,213	-45.7		30	29.0
250	30	10,414	-52.9		30	30.5
200	30	11,835	-58.1		30	31.3
175	30	12,678	-57.7		30	30.6
150	29	13,657	-57.8		30	29.8
125	29	14,802	-60.0		29	23.9
100	28	16,185	-61.9		30	19.4
80	24	17,569	-61.5		30	12.0
70	24	18,396	-61.9		31	7.8
60	23	19,356	-61.6		32	6.6
50	23	20,489	-60.4		34	5.1
40	22	21,882	-58.5		02	4.4
30	20	23,693	-57.9		04	5.9
25	19	24,842	-57.3		04	7.0
20	17	26,259	-56.9		05	7.8
15	11	28,059	-57.2		05	7.3

MERIDA, MEXICO — 1015 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	31	11	19.6	18.5	08	1.1
1000	31	144	21.3	18.8	10	3.6
950	31	589	19.3	15.6	12	6.3
900	31	1,053	17.1	11.0	11	5.0
850	31	1,539	14.0	8.1	11	4.4
800	31	2,049	11.6	3.0	11	3.7
750	31	2,588	9.7	-2.9	12	2.9
700	31	3,157	6.6	-6.8	14	2.4
650	31	3,763	3.8	-10.3	17	2.8
600	31	4,409	.2	-14.5	19	3.2
550	31	5,101	-3.8	-21.2	20	4.5
500	31	5,847	-8.7	-26.2	20	5.3
450	31	6,654	-14.5	-30.9	22	7.2
400	31	7,535	-21.2	-36.3	23	8.0
350	31	8,509	-28.7	-42.8	23	10.1
300	31	9,590	-37.4	-49.9	23	10.5
250	31	10,822	-47.4		23	11.7
200	30	12,261	-58.5		23	14.2
175	29	13,093	-61.5		23	15.6
150	28	14,044	-64.2		23	16.2
125	28	15,149	-68.6		22	14.7
100	28	16,46[illegible]	-74.0		22	11.0
80	26	17,759	-77.3		20	5.6
70	26	18,528	-75.2		17	2.4
60	25	19,434	-70.5		11	2.3
50	24	20,528	-66.1		09	1.9
40	23	21,900	-61.4		30	1.7
30	21	23,695	-59.0		28	3.7
25	21	24,840	-58.3		29	5.6
20	21	26,252	-56.3		28	7.5
15	17	28,094	-52.5		27	11.3

MIAMI, FL — 1020 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	4	20.2	16.9	07	1.9
1000	30	175	20.5	16.2	11	2.8
950	30	617	17.5	13.5	13	4.1
900	30	1,077	14.9	10.4	15	3.1
850	30	1,560	12.1	7.1	17	2.8
800	30	2,066	10.2	1.2	18	2.8
750	30	2,602	8.7	-5.7	20	2.9
700	30	3,170	5.9	-12.7	22	3.7
650	30	3,774	3.7	-16.0	22	4.4
600	30	4,420	.2	-19.4	23	5.8
550	30	5,111	-4.4	-23.4	24	6.1
500	30	5,854	-9.8	-28.3	25	8.4
450	30	6,658	-15.2	-32.7	25	10.6
400	30	7,537	-21.8	-37.3	25	12.4
350	30	8,509	-29.0	-42.8	25	15.3
300	30	9,589	-37.7	-50.2	25	17.5
250	30	10,819	-48.2		26	19.5
200	30	12,255	-58.1		26	23.0
175	30	13,089	-61.2		26	23.7
150	30	14,041	-63.3		26	22.9
125	30	15,151	-67.9		26	19.8
100	30	16,475	-73.0		26	15.3
80	29	17,767	-76.1		26	9.2
70	29	18,540	-74.6		26	6.1
60	29	19,445	-70.6		25	2.8
50	29	20,541	-65.6		27	2.4
40	29	21,910	-62.0		29	3.6
30	29	23,702	-59.3		28	4.8
25	29	24,847	-58.1		28	7.5
20	26	26,254	-56.4		28	8.2
15	26	28,093	-53.0		27	8.2
10	21	30,728	-48.2		27	17.6

MIDLAND, TX — 917 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	31	874	2.9	-2.8	31	1.7
1000						
950						
900	31	1,025	4.8	-3.8	31	2.5
850	31	1,493	6.4	-7.4	29	5.3
800	31	1,990	5.4	-8.6	28	5.9
750	31	2,514	2.8	-10.8	28	7.7
700	31	3,070	-.1	-14.8	27	9.7
650	31	3,660	-3.3	-18.9	26	11.8
600	31	4,289	-7.3	-22.7	26	13.6
550	31	4,960	-12.1	-27.7	26	15.7
500	31	5,682	-17.0	-33.0	26	18.2
450	31	6,465	-22.4	-36.6	26	19.4
400	31	7,319	-28.9	-42.3	26	21.5
350	31	8,263	-36.1	-47.5	26	23.3
300	31	9,312	-43.9	-51.2	26	26.1
250	31	10,516	-51.4		26	25.4
200	31	11,945	-56.4		26	26.7
175	31	12,791	-57.2		26	25.8
150	30	13,768	-58.9		27	23.9
125	29	14,902	-62.4		26	21.5
100	29	16,264	-66.7		26	18.3
80	28	17,610	-68.8		26	13.3
70	27	18,416	-67.8		26	11.2
60	24	19,351	-66.1		26	7.0
50	22	20,463	-64.1		26	3.0
40	19	21,844	-61.6		02	1.5
30	18	23,634	-59.8		07	4.5
25	18	24,775	-59.2		06	4.1
20	16	26,178	-57.7		05	4.1
15	13	28,006	-56.3		06	4.7

MONTERREY, MEXICO — 965 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	27	423	9.2	5.1	30	2.2
1000						
950	27	579	12.1	5.7	32	2.0
900	27	1,034	12.5	2.4	28	1.0
850	27	1,513	12.7	-1.1	24	2.0
800	27	2,022	11.7	-4.8	25	3.5
750	27	2,559	9.0	-8.3	26	5.1
700	27	3,126	5.1	-10.9	26	7.8
650	27	3,726	1.0	-14.6	26	8.8
600	27	4,365	-2.7	-19.1	26	9.2
550	27	5,049	-7.2	-23.2	25	10.2
500	27	5,785	-12.2	-27.6	25	12.5
450	27	6,582	-18.0	-31.8	24	15.4
400	27	7,451	-24.8	-37.9	24	17.5
350	27	8,410	-32.2	-44.7	24	19.0
300	27	9,476	-40.6	-50.6	25	22.7
250	27	10,693	-49.9		25	24.1
200	27	12,122	-57.8		25	25.5
175	27	12,961	-59.5		25	22.2
150	27	13,921	-62.0		25	21.1
125	27	15,037	-66.3		24	18.5
100	27	16,373	-71.1		24	18.4
80	28	17,684	-73.0		24	13.7
70	23	18,466	-72.0		24	9.8
60	22	19,381	-69.1		25	6.7
50	21	20,482	-65.3		25	5.7
40	21	21,852	-62.7		26	4.4
30	20	23,639	-60.6		26	5.4
25	18	24,775	-59.9		26	7.1
20	14	26,178	-57.3		27	4.6
15	11	28,008	-54.3			

MONETT, MO — 965 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	31	438	-.5	-3.8	23	.7
1000						
950	30	572	-.1	-5.1	25	1.8
900	31	1,000	2.2	-5.6	26	7.5
850	31	1,462	1.9	-9.1	27	10.6
800	31	1,950	.2	-11.3	27	11.9
750	31	2,466	-1.8	-12.7	27	13.5
700	31	3,012	-4.7	-14.3	27	15.4
650	30	3,589	-7.6	-18.2	27	17.9
600	30	4,208	-11.0	-20.8	27	20.7
550	30	4,872	-15.1	-24.7	27	23.2
500	30	5,586	-19.9	-29.9	26	25.4
450	30	6,359	-25.6	-35.8	26	26.9
400	29	7,201	-31.2	-41.8	26	30.4
350	29	8,137	-37.9	-45.5	26	33.2
300	29	9,180	-45.5		26	34.8
250	29	10,376	-52.4		26	39.6
200	29	11,805	-56.2		26	38.1
175	29	12,653	-56.0		26	37.1
150	29	13,634	-56.0		26	33.8
125	29	14,788	-59.0		26	29.1
100	29	16,175	-62.7		26	21.6
80	28	17,541	-64.1		26	16.2
70	28	18,359	-63.9		26	12.8
60	27	19,307	-62.4		27	9.1
50	26	20,435	-61.8		28	6.4
40	24	21,831	-60.3		30	2.9
30	23	23,626	-59.3		03	2.1
25	22	24,774	-58.9		04	3.9
20	22	26,179	-57.7		05	3.9
15	18	28,006	-57.1		05	4.5
10	13	30,595	-53.7		04	5.8

NASHVILLE, TN — 998 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	31	180	3.4	.7	19	1.2
1000	13	215	-.8	-4.6	03	1.6
950	31	580	3.6	-1.5	22	5.4
900	31	1,018	2.9	-6.0	24	9.0
850	31	1,480	1.8	-7.8	25	10.6
800	31	1,969	.7	-9.3	25	12.8
750	31	2,486	-1.1	-12.3	25	15.8
700	31	3,033	-3.8	-15.9	25	19.3
650	31	3,616	-6.4	-20.0	25	21.8
600	31	4,237	-10.0	-22.6	26	25.2
550	31	4,903	-14.0	-26.8	26	28.0
500	31	5,621	-18.3	-31.4	26	30.7
450	30	6,398	-23.5	-37.3	25	34.0
400	30	7,249	-29.6	-41.7	26	37.1
350	30	8,191	-36.6	-46.5	26	41.1
300	29	9,242	-44.3		25	43.7
250	29	10,443	-52.1		26	46.6
200	29	11,869	-57.1		26	44.6
175	29	12,716	-56.5		26	43.7
150	29	13,691	-58.3		26	40.5
125	29	14,830	-61.6		26	35.0
100	27	16,203	-65.0		26	27.7
80	27	17,557	-66.4		26	21.9
70	26	18,366	-65.7		26	17.4
60	25	19,304	-64.9		27	11.2
50	22	20,415	-63.8		28	8.0
40	21	21,794	-61.8		28	5.8
30	20	23,582	-60.3		33	1.9
25	18	24,723	-58.9		01	2.8
20	17	26,133	-57.7		36	2.7
15	12	27,921	-56.4		30	7.7
10	6	30,453	-53.9			

RAWINSONDE DATA

Average monthly values

* NOME, AK
1012 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	5	-18.1	-20.8	07	1.6
1000	24	135	-15.7	-18.8	12	1.3
950	31	484	-13.6	-17.9	13	1.1
900	31	894	-14.3	-19.7	15	.8
850	31	1,327	-15.0	-20.2	15	.7
800	31	1,785	-16.5	-22.8	20	.9
750	31	2,268	-19.0	-24.9	23	1.0
700	31	2,779	-22.0	-28.6	23	1.9
650	31	3,321	-25.3	-32.5	24	1.8
600	31	3,897	-29.2	-36.2	24	2.5
550	31	4,514	-33.2	-39.2	22	3.6
500	31	5,177	-37.8	-38.2	22	3.9
450	31	5,896	-42.8	-38.5	22	4.1
400	31	6,682	-48.0		23	4.7
350	30	7,557	-53.0		24	6.2
300	30	8,539	-57.1		23	7.4
250	30	9,692	-56.4		25	10.6
200	30	11,121	-53.0		25	12.4
175	30	11,984	-51.8		25	14.5
150	30	12,983	-51.6		25	15.7
125	28	14,179	-51.1		25	17.3
100	28	15,630	-51.3		25	18.9
80	28	17,082	-50.8		25	20.5
70	28	17,952	-50.4		25	21.6
60	28	18,960	-49.7		26	22.0
50	28	20,155	-49.0		25	21.8
40	28	21,621	-49.1		26	21.2
30	26	23,511	-47.9		25	19.2
25	25	24,711	-48.0		25	20.8
20	21	26,187	-47.6		26	19.2
15	19	28,094	-48.0		25	17.6
10	10	30,879	-40.4			

NORTH PLATTE, NE
915 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	29	847	-6.3	-9.4	32	1.6
1000						
950						
900	28	985	-3.8	-10.4	31	5.6
850	29	1,432	-3.2	-12.5	31	9.0
800	29	1,911	-4.5	-14.0	31	10.2
750	29	2,417	-6.7	-15.3	31	12.0
700	29	2,953	-9.1	-17.2	31	13.5
650	29	3,524	-12.0	-20.0	30	15.8
600	29	4,133	-15.4	-23.2	30	18.3
550	29	4,785	-19.4	-27.6	29	19.2
500	29	5,488	-23.3	-31.5	29	21.4
450	29	6,251	-28.7	-35.5	29	22.7
400	29	7,084	-34.7	-42.0	29	24.5
350	29	8,006	-41.4	-45.5	29	26.1
300	29	9,033	-48.5		28	27.4
250	29	10,219	-53.3		28	30.4
200	28	11,659	-54.0		27	31.8
175	28	12,517	-53.5		27	29.0
150	28	13,508	-54.6		27	28.1
125	27	14,674	-56.5		27	24.8
100	25	16,091	-59.5		28	21.5
80	25	17,481	-61.0		28	14.6
70	25	18,310	-61.6		28	11.6
60	24	19,269	-60.7		28	8.8
50	24	20,406	-60.0		29	6.9
40	19	21,799	-59.3		32	4.9
30	14	23,633	-58.2		35	2.8
25	10	24,784	-58.1		03	3.2
20	9	26,192	-56.9			

OAKLAND, CA
1021 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	6	6.2	3.8	09	.2
1000	31	179	9.0	.6	03	.6
950	31	605	10.0	-2.1	36	2.6
900	31	1,055	9.8	-5.5	34	4.7
850	31	1,527	7.8	-7.4	32	6.1
800	31	2,025	5.4	-10.5	31	7.3
750	31	2,549	2.3	-13.2	31	8.2
700	31	3,103	-.9	-17.5	30	10.1
650	31	3,691	-4.2	-20.5	31	12.1
600	31	4,317	-8.3	-23.9	31	14.4
550	31	4,987	-12.4	-26.2	31	15.7
500	31	5,709	-17.4	-30.2	30	16.9
450	31	6,490	-22.9	-35.4	30	18.6
400	31	7,344	-29.1	-40.6	31	20.0
350	30	8,298	-36.5	-45.6	31	21.5
300	30	9,345	-44.9		31	22.2
250	29	10,533	-52.8		31	24.5
200	29	11,954	-58.6		31	27.4
175	28	12,793	-58.7		31	24.5
150	28	13,759	-59.7		30	22.4
125	28	14,894	-62.2		30	18.9
100	26	16,263	-65.3		30	15.1
80	25	17,619	-65.8		31	10.6
70	24	18,428	-65.0		31	7.6
60	23	19,367	-63.7		32	5.9
50	23	20,491	-62.0		35	3.6
40	20	21,880	-60.3		03	3.2
30	14	23,681	-58.6		04	5.8
25	12	24,829	-57.5		05	6.9
20	11	26,244	-57.6		07	6.5
15	9	28,049	-56.6			

OMAHA, NE
967 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	403	-6.8	-10.0	29	1.7
1000						
950	30	546	-4.6	-8.8	28	3.3
900	31	968	-3.3	-11.9	29	6.6
850	31	1,419	-4.4	-14.3	29	8.6
800	31	1,896	-5.8	-14.7	29	10.4
750	31	2,400	-7.5	-16.4	29	11.6
700	31	2,935	-9.6	-19.7	29	12.9
650	31	3,505	-12.6	-21.5	28	15.1
600	31	4,112	-15.7	-24.9	28	19.0
550	31	4,764	-19.3	-28.1	28	20.8
500	31	5,466	-24.0	-33.4	28	22.0
450	31	6,228	-28.9	-38.9	28	24.2
400	31	7,060	-34.9	-42.8	28	25.8
350	31	7,982	-41.4	-46.4	27	28.3
300	31	9,010	-48.1		27	31.2
250	31	10,198	-52.8		27	34.0
200	31	11,635	-52.8		27	29.4
175	31	12,498	-52.5		27	28.3
150	31	13,494	-52.7		28	25.6
125	31	14,663	-55.7		27	23.3
100	31	16,076	-58.3		28	19.4
80	31	17,474	-59.7		28	15.6
70	30	18,307	-59.9		28	13.7
60	29	19,269	-60.0		28	11.6
50	28	20,411	-59.5		29	9.1
40	26	21,808	-58.9		31	6.9
30	24	23,614	-58.3		32	5.8
25	22	24,762	-57.8		33	6.1
20	22	26,171	-57.2		36	4.5
15	19	28,002	-55.4		02	4.1
10	5	30,746	-52.0			

PAGO PAGO, AMERICAN SAMOA
+ 1007 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	5	28.7	23.2	35	2.5
1000	31	63	27.2	22.7	36	2.7
950	31	516	23.5	20.0	36	3.4
900	31	988	20.3	18.1	35	3.5
850	31	1,480	17.4	14.4	35	3.5
800	31	1,998	15.1	11.4	35	3.3
750	31	2,543	12.4	8.4	35	3.2
700	31	3,120	9.3	4.9	34	2.7
650	31	3,733	6.4	1.2	35	2.9
600	31	4,386	2.8	-3.3	36	2.2
550	31	5,087	-.9	-6.9	36	2.1
500	31	5,843	-4.8	-12.3	36	2.0
450	31	6,665	-9.4	-17.9	01	1.7
400	31	7,567	-14.8	-25.4	01	1.3
350	31	8,568	-21.5	-32.3	32	1.0
300	31	9,684	-29.8	-41.5	22	1.3
250	31	10,957	-40.2	-48.3	21	2.7
200	31	12,439	-52.8		21	5.1
175	31	13,288	-59.9		20	6.2
150	31	14,234	-67.4		19	6.6
125	31	15,314	-74.7		18	6.8
100	31	16,588	-81.3		16	4.7
80	31	17,835	-81.6		11	8.9
70	31	18,594	-76.0		10	12.5
60	31	19,498	-70.2		09	16.1
50	31	20,597	-65.1		09	19.0
40	31	21,974	-60.3		09	23.4
30	29	23,786	-55.1		09	26.0
25	29	24,956	-53.1		09	25.7
20	28	26,401	-50.7		09	24.3
15	26	28,285	-46.6		09	20.5
10	14	30,986	-44.2		09	19.7

* PEORIA, IL
993 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	200	-4.0	-6.4	24	1.9
1000	8	237	-7.5	-10.2		
950	31	543	-3.7	-7.6	26	5.9
900	31	971	-3.8	-11.5	27	8.7
850	31	1,422	-4.2	-14.3	27	10.8
800	31	1,899	-5.1	-16.4	27	12.3
750	31	2,405	-6.9	-19.0	27	14.5
700	31	2,941	-9.3	-21.0	27	17.2
650	31	3,511	-12.2	-24.4	27	19.4
600	31	4,119	-15.4	-26.3	27	21.8
550	31	4,771	-19.4	-29.5	26	24.0
500	31	5,473	-23.9	-34.6	26	26.4
450	31	6,235	-28.8	-38.5	26	29.7
400	31	7,068	-34.6	-42.8	26	32.9
350	31	7,990	-41.0	-43.6	26	36.4
300	31	9,021	-47.7		26	39.7
250	31	10,212	-52.7		26	42.0
200	31	11,646	-54.2		26	39.7
175	31	12,503	-53.9		26	38.1
150	31	13,490	-55.3		26	34.1
125	30	14,657	-56.6		27	29.7
100	30	16,061	-60.0		26	25.0
80	30	17,450	-61.1		27	19.2
70	30	18,279	-61.3		27	14.9
60	29	19,236	-61.7		28	13.0
50	29	20,367	-61.2		28	10.1
40	29	21,756	-60.1		30	7.0
30	29	23,555	-59.2		31	4.4
25	27	24,706	-58.8		33	3.8
20	25	26,104	-58.6		35	4.2
15	23	27,919	-57.7		36	3.9
10	18	30,460	-55.9		33	7.1
7	10	32,711	-51.5			

* PITTSBURGH, PA
974 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	359	-.7	-5.5	24	3.1
1000						
950	31	561	-.9	-5.0	25	5.7
900	31	991	-2.5	-7.7	25	9.4
850	31	1,444	-4.1	-11.5	26	12.2
800	31	1,921	-5.4	-12.7	26	13.9
750	31	2,427	-6.7	-15.5	26	16.7
700	31	2,964	-8.4	-17.3	26	19.6
650	31	3,537	-10.7	-18.9	26	22.3
600	31	4,149	-13.9	-21.9	26	25.4
550	31	4,805	-17.6	-27.1	26	28.2
500	31	5,513	-22.0	-32.1	26	31.3
450	31	6,280	-27.4	-36.6	26	34.4
400	31	7,118	-33.1	-41.3	26	37.6
350	31	8,048	-39.2	-44.4	26	42.5
300	31	9,086	-46.0		27	47.1
250	31	10,282	-52.1		26	50.2
200	29	11,704	-55.3		27	46.2
175	29	12,555	-55.3		26	42.0
150	29	13,538	-56.0		26	39.8
125	27	14,702	-58.4		27	35.8
100	26	16,098	-60.6		27	30.9
80	25	17,481	-61.3		27	23.0
70	24	18,318	-60.7		27	17.9
60	22	19,270	-60.9		27	13.1
50	20	20,394	-60.8		27	10.8
40	19	21,788	-60.3		28	10.7
30	17	23,574	-58.7		29	6.9
25	17	24,722	-57.7		30	6.4
20	15	26,146	-57.0		31	3.2
15	13	27,981	-55.0		34	2.8
10	12	30,605	-50.6		01	3.0

PONAPE, CAROLINE IS.
+ 1004 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	39	28.2	23.2	05	4.5
1000	31	75	27.0	22.1	06	5.1
950	31	527	23.1	20.4	06	9.0
900	31	998	19.5	16.8	07	10.4
850	31	1,488	16.9	12.5	08	9.3
800	31	2,005	15.4	4.6	08	7.2
750	31	2,551	13.7	-1.1	09	6.6
700	31	3,129	10.7	-4.2	09	7.4
650	31	3,744	7.6	-8.2	09	9.1
600	31	4,399	3.8	-12.6	08	11.0
550	31	5,100	-.2	-16.7	08	12.3
500	31	5,857	-4.5	-20.9	09	12.0
450	31	6,680	-9.2	-24.9	09	11.5
400	31	7,581	-14.7	-30.0	09	11.2
350	31	8,582	-21.4	-35.8	08	8.9
300	31	9,697	-29.8	-42.2	09	6.8
250	31	10,970	-40.0	-48.8	12	6.8
200	31	12,454	-52.3		13	8.1
175	31	13,304	-59.4		13	7.8
150	31	14,250	-67.7		11	7.6
125	31	15,325	-76.0		09	10.3
100	31	16,586	-83.9		09	14.6
80	31	17,813	-85.3		09	15.1
70	31	18,562	-77.3		09	11.7
60	31	19,465	-69.9		10	9.7
50	31	20,562	-65.7		09	14.3
40	31	21,929	-62.4		09	21.7
30	30	23,732	-55.7		09	24.3
25	29	24,905	-52.3		09	16.9
20	27	26,362	-49.0		09	.3
15	21	28,261	-47.5		27	13.1
10	12	30,963	-42.6			

PORTLAND, ME
1015 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	20	-6.0	-10.2	32	1.8
1000	30	146	-4.7	-9.5	31	2.5
950	31	541	-5.1	-11.6	28	4.7
900	31	965	-6.5	-13.1	28	7.0
850	31	1,411	-7.2	-16.1	28	9.2
800	31	1,883	-8.4	-18.2	28	11.3
750	31	2,382	-9.8	-18.8	27	14.2
700	31	2,913	-11.7	-22.1	27	17.3
650	31	3,478	-14.6	-24.2	27	20.2
600	31	4,081	-17.5	-27.1	27	22.4
550	31	4,728	-21.2	-31.3	27	25.5
500	31	5,425	-25.7	-33.8	27	29.7
450	30	6,174	-31.0	-39.8	27	33.4
400	30	7,000	-36.5	-42.1	27	37.7
350	30	7,918	-41.9	-45.5	27	41.7
300	30	8,946	-47.8		27	37.9
250	29	10,130	-52.5		27	37.1
200	29	11,564	-54.7		27	34.6
175	29	12,418	-54.6		27	32.1
150	29	13,405	-54.7		27	31.6
125	29	14,568	-56.1		27	28.5
100	29	15,979	-58.5		27	24.0
80	29	17,377	-59.6		27	19.9
70	29	18,212	-59.6		27	16.9
60	29	19,177	-59.4		27	14.9
50	29	20,320	-59.0		27	10.5
40	27	21,727	-58.7		27	8.1
30	27	23,539	-57.4		26	3.6
25	27	24,693	-56.9		26	2.6
20	26	26,101	-56.5		34	1.6
15	26	27,931	-55.4		36	1.6
10	16	30,567	-52.5			

* QUILLAYUTE, WA
1012 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	30	58	3.2	1.9	13	.8
1000	28	164	3.5	1.6	17	.4
950	30	568	2.0	-.6	22	2.7
900	30	1,003	-.1	-4.4	24	4.3
850	30	1,459	-2.8	-8.8	26	5.2
800	30	1,938	-4.9	-12.7	27	7.5
750	30	2,443	-7.3	-16.4	27	10.3
700	30	2,978	-9.9	-20.0	27	12.7
650	30	3,547	-12.8	-21.7	27	14.6
600	30	4,154	-16.0	-23.5	28	17.2
550	30	4,805	-19.6	-26.1	28	20.4
500	30	5,507	-24.2	-31.6	28	22.8
450	30	6,268	-29.2	-35.5	28	25.4
400	30	7,099	-35.0	-40.6	28	29.3
350	30	8,021	-41.3	-44.8	28	32.5
300	30	9,050	-48.2		28	33.1
250	30	10,232	-54.9		29	33.8
200	30	11,652	-56.2		29	28.5
175	30	12,502	-55.5		29	27.0
150	30	13,486	-55.4		29	24.6
125	30	14,647	-56.3		29	23.3
100	28	16,058	-57.5		29	18.3
80	26	17,468	-58.2		29	13.3
70	25	18,312	-58.3		30	12.1
60	22	19,276	-57.8		30	8.6
50	20	20,423	-56.7		30	7.7
40	17	21,831	-56.0		32	6.8
30	13	23,675	-56.0		35	5.8
25	11	24,831	-55.8		02	3.0
20	8	26,269	-54.6			
15	8	28,113	-54.0			
10	5	30,728	-52.3			

RAPID CITY, SD
902 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	966	-5.7	-10.6	33	3.6
1000						
950						
900	19	1,021	-5.1	-11.6	33	4.4
850	31	1,434	-4.4	-13.3	32	8.2
800	31	1,909	-7.2	-14.8	32	10.3
750	31	2,410	-9.5	-16.9	31	12.2
700	31	2,941	-12.1	-19.6	31	13.2
650	31	3,505	-14.7	-23.0	30	14.7
600	31	4,108	-17.9	-27.2	30	15.9
550	31	4,753	-22.0	-32.2	29	17.6
500	31	5,448	-26.4	-36.1	29	19.3
450	31	6,202	-31.5	-39.9	29	21.9
400	31	7,026	-37.0	-45.3	30	24.7
350	31	7,939	-43.4		30	27.4
300	31	8,958	-50.5		29	27.6
250	31	10,134	-54.5		29	29.0
200	31	11,564	-53.8		29	27.5
175	30	12,421	-53.0		29	25.2
150	30	13,414	-53.5		28	22.8
125	30	14,584	-55.0		28	22.7
100	30	16,003	-57.1		28	19.9
80	28	17,405	-58.3		28	16.1
70	28	18,244	-59.1		29	14.4
60	26	19,208	-59.3		29	10.9
50	24	20,356	-58.5		30	9.3
40	23	21,762	-58.0		31	6.2
30	19	23,590	-57.6		34	6.3
25	17	24,743	-56.8		34	4.8
20	13	26,187	-55.8		01	4.3
15	9	28,011	-55.0			
10						
7						
5						

ST CLOUD, MN
976 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	316	-13.0	-15.7	31	1.5
1000						
950	30	528	-10.2	-11.8	29	3.0
900	31	938	-8.5	-13.1	29	6.2
850	31	1,381	-9.1	-14.3	29	7.9
800	31	1,850	-10.0	-16.3	29	9.0
750	31	2,345	-12.3	-18.5	29	10.2
700	31	2,870	-14.8	-20.3	29	11.5
650	31	3,428	-17.5	-23.2	29	12.7
600	31	4,024	-20.6	-26.9	29	14.7
550	31	4,664	-24.4	-31.2	28	16.6
500	31	5,352	-28.4	-35.6	28	19.1
450	31	6,100	-33.4	-40.6	28	21.5
400	31	6,917	-39.3	-42.8	28	22.5
350	31	7,822	-45.5		28	24.5
300	30	8,843	-51.3		28	27.0
250	30	10,020	-53.4		27	31.4
200	30	11,461	-52.0		27	29.2
175	30	12,326	-52.5		27	29.0
150	30	13,321	-52.9		28	28.0
125	30	14,494	-54.4		28	25.3
100	29	15,920	-56.4		28	24.4
80	29	17,330	-58.0		28	21.7
70	29	18,172	-57.9		28	18.0
60	29	19,143	-58.1		29	15.9
50	27	20,289	-57.8		29	14.4
40	27	21,696	-57.6		30	12.3
30	26	23,513	-57.1		30	9.1
25	25	24,661	-57.1		31	8.0
20	22	26,068	-56.7		32	10.4
15	15	27,876	-55.8		33	9.0
10	7	30,584	-53.1			

* ST PAUL ISLAND, AK
1009 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	10	-8.1	-10.6	02	2.6
1000	22	146	-6.0	-10.6	04	.9
950	31	480	-9.8	-12.4	34	1.7
900	31	897	-10.9	-14.5	34	.5
850	31	1,335	-12.3	-18.8	22	1.1
800	31	1,797	-14.4	-24.4	23	1.6
750	30	2,290	-17.5	-28.5	23	3.1
700	30	2,803	-20.4	-31.7	23	3.4
650	30	3,349	-23.4	-33.0	23	4.3
600	30	3,930	-27.2	-37.0	24	5.8
550	30	4,553	-30.7	-40.2	24	8.0
500	30	5,223	-35.0	-43.2	24	8.9
450	30	5,951	-39.4	-43.8	24	10.1
400	30	6,749	-44.4	-45.5	23	10.3
350	30	7,636	-49.8		23	11.9
300	30	8,632	-53.6		23	15.1
250	30	9,802	-53.5		24	13.7
200	30	11,247	-50.7		24	13.9
175	30	12,118	-50.1		24	15.2
150	30	13,126	-49.7		24	15.2
125	30	14,321	-49.5		24	15.6
100	29	15,782	-49.8		25	15.8
80	28	17,242	-50.2		24	15.5
70	27	18,124	-50.1		24	15.6
60	27	19,131	-50.1		25	14.6
50	24	20,316	-49.9		25	14.6
40	22	21,773	-49.3		24	13.0
30	19	23,649	-49.0		24	10.9
25	19	24,847	-48.9		24	10.8
20	18	26,307	-48.8		23	7.9
15	15	28,201	-47.5		22	6.8
10	9	30,978	-40.8			
7	8	33,436	-37.3			
5	9	35,770	-36.7			

SALEM, IL
996 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	174	.1	-3.2	22	1.7
1000	14	206	-4.0	-7.7	34	1.4
950	31	551	.1	-5.3	25	5.0
900	31	985	-.2	-8.6	26	8.6
850	31	1,442	-.8	-11.2	27	11.2
800	31	1,925	-2.3	-14.0	27	12.4
750	31	2,436	-4.4	-16.8	26	13.6
700	31	2,977	-6.8	-18.9	26	16.8
650	31	3,553	-9.3	-20.6	26	19.1
600	31	4,168	-12.5	-23.8	26	22.4
550	31	4,828	-16.5	-28.0	26	25.2
500	31	5,538	-21.1	-33.0	26	27.1
450	31	6,308	-26.5	-36.6	26	29.7
400	31	7,149	-32.5	-41.8	26	34.0
350	31	8,081	-38.7	-45.7	26	35.6
300	31	9,120	-45.7		25	38.2
250	31	10,317	-52.1		26	43.4
200	30	11,749	-54.9		26	44.7
175	30	12,602	-55.4			
150	30	13,586	-55.7			
125	30	14,741	-58.4			
100	29	16,133	-61.4			
80	29	17,512	-62.6			
70	27	18,345	-62.2			
60	26	19,297	-61.4			
50	26	20,429	-61.2			
40	24	21,820	-59.5			
30	22	23,618	-59.4		07	3.7
25	19	24,755	-58.6		03	2.8
20	17	26,149	-57.8			
15	13	27,965	-56.7			

SALEM, OR
1013 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	61	3.4	2.1	19	2.8
1000	29	179	5.7	3.3	20	3.9
950	31	586	4.2	.7	22	6.2
900	31	1,025	2.5	-1.8	24	7.9
850	31	1,486	.3	-4.8	26	9.7
800	31	1,970	-2.0	-8.2	26	11.0
750	31	2,481	-4.7	-12.3	27	12.2
700	31	3,071	-7.6	-17.3	28	13.7
650	31	3,595	-10.7	-21.7	28	15.9
600	31	4,206	-14.2	-25.0	29	18.6
550	31	4,862	-18.2	-28.2	29	21.2
500	31	5,568	-22.5	-32.4	29	23.6
450	31	6,333	-27.6	-36.8	29	25.8
400	31	7,171	-33.4	-39.6	30	28.2
350	31	8,098	-40.1	-45.0	30	29.4
300	31	9,132	-47.0		30	30.0
250	31	10,321	-53.5		30	32.1
200	31	11,745	-55.7		30	26.6
175	31	12,593	-55.9		30	27.3
150	30	13,579	-55.1		30	25.6
125	30	14,732	-58.3		29	23.0
100	30	16,130	-59.9		30	20.0
80	29	17,530	-59.4		31	12.7
70	28	18,373	-60.4		31	9.5
60	28	19,333	-60.2		31	7.4
50	28	20,472	-59.4		33	6.1
40	26	21,874	-57.7		34	4.8
30	24	23,698	-56.7		02	5.2
25	24	24,856	-56.0		03	6.6
20	23	26,278	-55.6		05	7.7
15	17	28,125	-54.7		06	9.5
10	10	30,764	-50.2			

RAWINSONDE DATA

Average monthly values

JANUARY 1975

SALT LAKE CITY, UT
875 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.h.
SFC	31	1,288	-4.6	-7.9	17	2.1
1000						
950						
900						
850	31	1,513	-3.3	-10.1	19	2.3
800	31	1,993	-3.6	-12.5	23	3.1
750	31	2,501	-6.2	-15.1	27	5.3
700	31	3,037	-9.4	-18.3	29	8.2
650	31	3,607	-12.3	-19.7	30	11.3
600	31	4,216	-15.1	-23.8	30	14.6
550	31	4,869	-18.8	-26.9	29	17.3
500	31	5,573	-23.1	-32.0	29	20.2
450	31	6,338	-27.9	-36.9	29	23.6
400	31	7,174	-33.7	-41.9	29	26.9
350	31	8,101	-39.9	-46.7	30	28.4
300	31	9,135	-47.3		30	29.8
250	31	10,321	-54.2		30	30.5
200	31	11,742	-56.1		30	31.1
175	31	12,592	-55.6		30	28.2
150	31	13,573	-56.7		29	25.7
125	31	14,723	-58.7		29	21.5
100	30	16,118	-61.8		29	17.0
80	30	17,495	-63.0		29	11.8
70	28	18,315	-61.9		30	8.9
60	28	19,270	-61.6		31	6.0
50	27	20,401	-60.4		31	4.2
40	25	21,794	-59.3		34	2.6
30	24	23,604	-58.6		04	2.5
25	23	24,749	-57.9		03	4.0
20	20	26,144	-57.9		04	5.6
15	16	27,965	-56.5		05	7.7
10	6	30,628	-53.1			
7						

SAN DIEGO, CA
1003 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.h.
SFC	31	124	8.1	1.5	03	.7
1000	26	158	11.1	-2.2	04	.8
950	31	581	13.4	-2.4	32	.3
900	31	1,035	11.6	-5.0	35	1.5
850	31	1,510	9.5	-8.5	32	3.2
800	31	2,011	7.6	-11.5	32	4.4
750	31	2,540	5.3	-14.7	31	6.0
700	31	3,101	2.8	-16.9	32	7.8
650	31	3,697	-.8	-19.6	32	8.9
600	31	4,331	-5.0	-23.4	32	9.4
550	31	5,008	-9.8	-27.9	31	10.7
500	31	5,736	-15.3	-32.5	31	11.5
450	31	6,523	-21.3	-36.8	31	11.6
400	31	7,380	-28.1	-42.8	31	12.5
350	31	8,326	-35.8	-47.6	31	12.8
300	31	9,377	-43.5	-48.5	31	14.5
250	31	10,582	-51.3		30	13.6
200	31	12,011	-57.0		31	17.4
175	31	12,852	-58.8		31	19.7
150	31	13,818	-60.0		30	17.4
125	31	14,948	-63.2		30	15.7
100	30	16,303	-66.8		29	13.0
80	29	17,644	-68.0		29	9.1
70	29	18,448	-67.2		30	6.9
60	29	19,382	-65.5		31	4.0
50	29	20,497	-63.0		35	2.2
40	29	21,878	-60.9		04	1.7
30	28	23,672	-59.5		08	3.0
25	26	24,819	-58.8		08	4.4
20	20	26,228	-57.8		08	2.8
15	14	28,050	-55.9		03	3.0
10	5	30,679	-53.5			
7						

SAN JUAN, P. R.
1017 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.h.
SFC	31	6	23.3	17.6	09	3.6
1000	31	155	22.7	18.0	07	6.3
950	31	601	19.1	15.6	08	9.7
900	31	1,064	15.7	12.3	08	9.4
850	31	1,547	12.4	9.2	08	8.8
800	31	2,054	10.0	3.9	08	8.3
750	31	2,591	9.9	-6.4	08	8.4
700	31	3,163	8.3	-11.6	08	8.3
650	31	3,771	5.2	-14.8	07	7.4
600	31	4,420	1.5	-18.1	07	6.7
550	31	5,115	-2.7	-22.1	07	6.8
500	31	5,863	-7.9	-26.5	06	6.4
450	31	6,674	-13.5	-32.1	05	5.6
400	31	7,559	-20.0	-37.5	03	5.1
350	31	8,537	-27.5	-43.8	35	5.7
300	31	9,624	-36.0	-50.8	32	6.8
250	31	10,866	-45.1		30	12.7
200	31	12,324	-54.5		28	18.2
175	31	13,171	-58.9		28	17.8
150	31	14,127	-64.0		29	15.7
125	31	15,230	-69.4		30	12.2
100	30	16,539	-75.9		33	8.6
80	29	17,814	-79.8		02	6.6
70	29	18,573	-77.7		05	5.6
60	29	19,472	-70.2		06	4.4
50	28	20,573	-64.1		07	3.5
40	27	21,954	-60.5		08	4.7
30	25	23,756	-57.1		08	5.9
25	25	24,915	-55.5		09	4.2
20	24	26,350	-53.1		10	1.4
15	23	28,213	-50.5		26	7.3
10	12	30,870	-46.0			
7						

* SAULT STE MARIE, MI
986 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.h.
SFC	31	221	-9.1	-12.5	12	1.0
1000						
950	31	504	-8.6	-10.3	23	1.5
900	31	922	-10.5	-12.3	25	4.6
850	31	1,361	-11.6	-15.4	26	7.0
800	31	1,926	-12.4	-17.0	27	9.0
750	31	2,318	-13.6	-19.2	27	10.6
700	31	2,841	-15.2	-21.0	26	12.4
650	31	3,399	-17.7	-24.8	27	14.5
600	31	3,994	-21.0	-29.8	27	15.9
550	31	4,632	-24.4	-33.9	27	17.1
500	31	5,321	-28.9	-36.8	27	19.1
450	31	6,067	-33.7	-41.2	27	21.8
400	31	6,884	-39.0	-44.8	27	25.7
350	31	7,791	-44.8		27	28.4
300	31	8,806	-50.6		27	30.4
250	31	9,983	-53.5		26	35.1
200	31	11,422	-52.8		27	35.0
175	31	12,285	-52.3		27	32.6
150	31	13,281	-52.5		27	30.8
125	30	14,462	-53.9		27	29.3
100	29	15,893	-55.3		27	25.9
80	29	17,313	-56.7		27	21.6
70	28	18,152	-57.1		27	21.0
60	28	19,127	-57.4		28	18.8
50	28	20,279	-57.6		28	16.9
40	26	21,700	-57.2		29	14.1
30	24	23,545	-56.3		29	8.4
25	21	24,712	-56.1		30	7.9
20	20	26,146	-55.7		31	7.6
15	18	27,993	-54.1		34	4.2
10	16	30,589	-51.4		35	5.0
7	10	32,807	-49.6			

* SHREVEPORT, LA
1010 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.h.
SFC	31	79	7.3	4.4	15	.3
1000	28	171	8.0	4.4	19	.7
950	31	582	8.5	1.1	22	3.6
900	31	1,029	8.0	-2.9	25	6.3
850	31	1,500	6.9	-6.5	26	8.7
800	31	1,996	4.6	-7.5	26	10.1
750	31	2,520	2.6	-11.7	25	11.9
700	31	3,075	-.5	-13.0	25	13.8
650	31	3,665	-2.9	-18.7	26	15.3
600	31	4,295	-6.5	-22.4	25	17.8
550	31	4,969	-10.9	-26.5	25	18.9
500	31	5,695	-15.5	-31.8	25	20.4
450	31	6,481	-21.3	-36.4	25	21.6
400	31	7,338	-27.9	-40.9	25	24.0
350	31	8,287	-35.0	-46.6	25	26.6
300	31	9,341	-42.7	-48.6	25	29.5
250	31	10,549	-51.5		25	34.8
200	31	11,974	-57.4		26	33.9
175	31	12,818	-57.9		26	32.6
150	31	13,787	-59.5		26	29.5
125	31	14,919	-63.2		26	28.5
100	29	16,268	-67.0		26	23.6
80	23	17,610	-68.6		26	16.7
70	22	18,412	-67.5		26	14.4
60	22	19,342	-66.7		26	10.2
50	22	20,452	-64.2		25	5.9
40	22	21,823	-62.7		26	4.0
30	21	23,607	-60.5		30	2.0
25	17	24,745	-59.7		36	1.7
20	16	26,145	-58.4		31	1.9
15	14	27,964	-55.5		01	1.7
10	13	30,557	-51.4		28	4.0
7	11	32,894	-46.7			

SPOKANE, WA
932 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.h.
SFC	31	720	-4.8	-6.7	22	2.1
1000						
950						
900	31	998	-2.8	-5.6	22	3.9
850	31	1,450	-4.1	-10.2	24	6.0
800	31	1,926	-6.4	-13.2	26	7.6
750	31	2,429	-8.7	-15.4	27	9.1
700	31	2,961	-11.7	-18.3	28	11.4
650	31	3,526	-14.4	-22.1	28	13.8
600	31	4,129	-17.5	-26.2	28	16.2
550	31	4,776	-21.1	-29.8	29	18.8
500	31	5,474	-25.2	-33.3	29	22.4
450	31	6,232	-30.3	-37.7	29	24.7
400	30	7,064	-36.1	-40.8	30	27.8
350	30	7,982	-42.2	-43.5	30	31.0
300	30	9,006	-48.9		30	35.2
250	30	10,189	-54.2		30	36.0
200	30	11,616	-54.2		30	34.9
175	30	12,474	-53.2		29	31.7
150	30	13,467	-53.5		30	27.5
125	30	14,636	-55.1		29	24.8
100	29	16,052	-56.8		29	19.7
80	29	17,465	-56.9		29	15.4
70	29	18,311	-57.1		29	12.6
60	29	19,286	-57.5		30	11.3
50	29	20,438	-56.9		30	8.3
40	29	21,853	-56.4		31	6.6
30	27	23,677	-55.8		34	6.5
25	24	24,845	-55.5		35	6.2
20	23	26,269	-55.0		02	6.4
15	16	28,112	-54.5		05	7.8
10						
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5						

* SWAN ISLAND, W. I.
1014 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.h.
SFC	31	10	24.5	21.0	09	4.5
1000	31	129	24.4	20.5	09	5.8
950	31	577	20.6	18.5	09	7.9
900	31	1,043	17.6	13.8	10	8.5
850	31	1,530	14.8	9.0	09	7.9
800	31	2,041	11.8	4.9	10	6.0
750	31	2,580	9.6	-2.1	10	6.1
700	31	3,150	6.9	-7.0	11	6.4
650	31	3,756	4.4	-11.2	11	6.4
600	31	4,405	1.7	-16.8	11	6.1
550	31	5,101	-2.4	-21.1	11	4.7
500	31	5,850	-7.2	-26.0	12	2.7
450	31	6,663	-13.0	-30.6	16	1.6
400	31	7,549	-19.8	-35.6	20	2.6
350	31	8,528	-27.3	-41.4	22	4.0
300	30	9,615	-36.3	-48.8	22	5.3
250	30	10,853	-46.1		23	9.3
200	30	12,304	-55.9		23	13.1
175	30	13,146	-60.1		23	14.3
150	30	14,098	-64.1		23	13.1
125	30	15,201	-69.4		22	10.8
100	30	16,513	-75.5		19	6.9
80	30	17,790	-78.8		14	5.0
70	29	18,553	-76.8		11	5.2
60	28	19,454	-71.3		09	5.2
50	27	20,548	-64.9		09	4.3
40	27	21,922	-61.2		09	5.3
30	26	23,726	-58.0		08	5.9
25	25	24,877	-57.0		07	3.9
20	23	26,299	-54.2		32	2.7
15	21	28,160	-49.6		27	11.2
10	21	30,851	-43.8		26	22.8
7	14	33,251	-41.5		26	30.2
5	6	35,528	-39.6			

TAMPA, FL
1020 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.h.
SFC	31	8	14.7	13.0	11	1.5
1000	31	174	16.9	13.3	13	2.7
950	31	612	15.9	9.5	18	3.8
900	31	1,071	14.1	5.9	21	3.9
850	31	1,551	11.8	2.1	22	4.4
800	31	2,057	9.9	-3.8	23	5.6
750	31	2,592	8.0	-7.9	24	6.5
700	31	3,157	5.1	-11.8	24	7.3
650	31	3,759	1.9	-14.1	24	8.3
600	31	4,400	-1.6	-18.0	24	10.0
550	31	5,087	-5.7	-23.2	25	11.8
500	31	5,827	-11.1	-27.7	25	13.8
450	31	6,627	-16.7	-32.8	25	15.7
400	31	7,501	-23.4	-37.3	25	18.2
350	31	8,467	-30.6	-43.0	25	20.7
300	31	9,540	-39.1	-50.4	25	24.0
250	31	10,763	-49.1		25	26.9
200	30	12,189	-59.4		26	31.4
175	30	13,021	-61.5		25	30.3
150	30	13,975	-62.7		25	28.0
125	30	15,086	-67.4		25	24.5
100	29	16,414	-72.4		26	19.1
80	28	17,717	-74.7		25	13.0
70	27	18,494	-73.2		26	8.5
60	27	19,403	-70.2		26	7.5
50	27	20,498	-66.2		28	4.4
40	27	21,860	-63.7		28	3.7
30	26	23,644	-59.8		28	5.5
25	26	24,787	-58.6		28	5.0
20	24	26,198	-56.5		29	4.6
15	20	28,031	-54.0		28	5.1
10	8	30,671	-49.0			
7						
5						

TOPEKA, KS
986 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.h.
SFC	31	268	-2.8	-5.3	27	.8
1000						
950	31	559	-1.8	-7.9	28	3.4
900	31	990	-.8	-10.7	29	6.0
850	31	1,446	-1.7	-13.3	28	7.9
800	31	1,928	-3.1	-14.9	28	9.8
750	31	2,437	-4.6	-15.9	28	12.9
700	31	2,978	-7.0	-17.7	28	15.1
650	31	3,553	-10.0	-19.2	27	16.9
600	31	4,166	-13.9	-23.0	27	19.0
550	31	4,822	-17.9	-27.0	27	21.5
500	31	5,528	-22.7	-31.1	27	24.3
450	30	6,298	-27.7	-36.8	27	26.6
400	30	7,135	-33.6	-42.3	27	29.4
350	30	8,062	-40.0	-46.4	27	31.9
300	30	9,096	-47.1		27	34.7
250	30	10,286	-53.2		27	35.0
200	30	11,713	-54.7		27	32.6
175	30	12,568	-54.2		27	32.4
150	30	13,557	-54.5		27	28.2
125	30	14,717	-57.3		27	22.6
100	30	16,115	-60.7		27	19.6
80	27	17,497	-62.3		27	15.7
70	24	18,316	-61.5		28	12.4
60	24	19,272	-61.3		29	9.6
50	22	20,409	-60.5		30	7.9
40	22	21,803	-59.5		31	4.5
30	19	23,614	-58.6		02	3.5
25	18	24,764	-57.6		03	3.1
20	15	26,202	-56.9		04	6.4
15	12	28,006	-56.1			
10						
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5						

* TRUK, CAROLINE IS.
1010 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.h.
SFC	31	2	27.9	23.6	05	4.6
1000	31	93	26.9	21.7	06	6.1
950	31	546	23.6	19.6	07	8.6
900	31	1,017	20.4	16.0	07	9.4
850	31	1,509	17.4	12.1	08	8.5
800	31	2,026	15.8	4.4	08	7.3
750	31	2,573	13.7	.0	09	7.3
700	31	3,151	11.0	-3.7	09	7.7
650	31	3,766	7.9	-8.2	09	9.4
600	31	4,422	4.1	-12.8	09	11.5
550	31	5,124	-.3	-15.1	09	11.2
500	31	5,881	-4.4	-19.1	09	11.2
450	31	6,704	-9.0	-24.9	09	11.8
400	31	7,606	-14.4	-29.6	09	10.7
350	31	8,609	-21.1	-34.4	09	9.6
300	31	9,725	-29.6	-40.6	10	8.0
250	30	11,003	-39.7	-49.0	12	8.1
200	30	12,488	-52.2		13	10.0
175	30	13,339	-59.3		12	10.4
150	30	14,286	-67.3		11	11.6
125	30	15,363	-75.7		10	13.8
100	30	16,677	-83.6		09	16.1
80	30	17,857	-84.3		10	16.4
70	30	18,612	-75.4		09	12.0
60	30	19,521	-68.8		09	9.7
50	30	20,623	-65.0		09	12.8
40	30	21,992	-62.3		09	20.1
30	30	23,795	-55.3		09	24.3
25	30	24,968	-52.0		09	19.1
20	30	26,426	-48.8		11	2.3
15	26	28,318	-47.4		27	13.0
10	13	31,010	-43.4		27	20.7
7						
5						

* TUCSON, AZ
927 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.h.
SFC	31	789	4.7	-4.8	16	1.9
1000						
950						
900	31	1,029	9.4	-7.2	14	1.8
850	31	1,502	8.3	-8.6	19	1.1
800	31	2,000	6.1	-10.0	23	2.2
750	31	2,526	3.3	-12.0	26	3.5
700	31	3,083	.4	-16.5	28	5.3
650	31	3,674	-2.8	-19.1	28	7.3
600	31	4,303	-6.8	-23.6	30	8.7
550	31	4,977	-11.0	-27.3	31	10.5
500	31	5,702	-16.0	-30.9	30	12.1
450	31	6,487	-21.6	-36.1	30	13.6
400	31	7,343	-28.5	-41.4	30	13.7
350	31	8,288	-35.9	-46.9	30	14.8
300	31	9,338	-44.0		30	16.9
250	31	10,540	-51.9		29	18.0
200	31	11,965	-57.5		29	20.3
175	31	12,808	-57.9		30	19.0
150	30	13,780	-59.4		29	17.3
125	30	14,913	-63.0		29	15.9
100	30	16,272	-67.1		28	12.8
80	29	17,617	-68.6		28	9.5
70	29	18,419	-67.4		28	6.9
60	29	19,352	-65.8		28	4.5
50	29	20,465	-63.0		30	2.5
40	29	21,843	-61.2		01	.7
30	28	23,635	-60.1		05	2.2
25	26	24,780	-59.5		04	3.0
20	25	26,181	-58.1		05	3.6
15	20	27,998	-56.8		04	3.6
10	17	30,596	-52.0		32	2.8
7	9	32,929	-46.9			

* VANDENBERG AFB, CA
1009 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.h.
SFC	31	100	7.6	1.6	02	1.3
1000	31	170	10.6	1.0	01	2.4
950	31	601	13.5	-2.5	36	4.6
900	31	1,054	11.9	-4.0	35	5.8
850	31	1,530	9.5	-6.3	35	6.7
800	31	2,031	7.0	-10.6	34	7.8
750	31	2,559	4.6	-14.1	33	8.9
700	31	3,118	1.7	-18.2	33	9.8
650	31	3,711	-1.6	-20.7	33	10.4
600	31	4,343	-5.8	-24.1	32	11.3
550	31	5,019	-10.5	-27.5	32	12.0
500	31	5,745	-15.8	-31.5	31	13.1
450	31	6,531	-21.7	-35.1	31	14.0
400	31	7,387	-28.2	-41.1	31	14.5
350	31	8,333	-35.8	-45.5	31	14.5
300	30	9,384	-43.9		31	15.7
250	30	10,587	-51.3		31	18.0
200	30	12,016	-57.5		31	19.9
175	30	12,857	-59.0		31	20.6
150	29	13,813	-60.7		30	18.6
125	29	14,940	-63.7		30	16.3
100	29	16,298	-67.0		30	13.3
80	28	17,642	-68.1		31	8.3
70	25	18,442	-66.5		31	5.9
60	25	19,377	-65.6		33	4.5
50	24	20,496	-62.9		36	2.9
40	23	21,879	-60.3		05	2.3
30	22	23,677	-59.2		07	4.1
25	22	24,821	-58.4		09	5.3
20	22	26,230	-57.2		08	5.9
15	21	28,052	-56.0		08	4.8
10	17	30,648	-52.8		06	4.3
7	10	32,980	-48.1			

VICTORIA, TX
1014 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.h.
SFC	31	33	10.6	8.9	32	.1
1000	30	153	13.2	8.2	14	.7
950	31	580	12.7	5.1	19	3.5
900	31	1,033	10.9	.8	21	4.9
850	31	1,510	9.7	-3.1	23	6.3
800	31	2,012	7.7	-5.8	24	7.9
750	31	2,542	5.7	-8.8	24	8.3
700	31	3,103	2.8	-14.3	25	9.1
650	31	3,700	-.1	-17.0	25	10.0
600	31	4,336	-4.3	-21.5	25	10.8
550	31	5,016	-8.6	-26.6	25	13.3
500	31	5,747	-13.7	-31.2	25	16.2
450	31	6,539	-19.4	-35.0	25	18.8
400	31	7,403	-26.1	-40.4	25	22.4
350	31	8,358	-33.4	-45.6	25	26.1
300	31	9,420	-41.4	-52.1	25	29.0
250	31	10,633	-50.4		25	33.1
200	31	12,061	-57.4		25	32.1
175	31	12,902	-59.0		25	31.0
150	30	13,861	-60.8		25	27.5
125	29	14,989	-65.2		25	23.9
100	29	16,330	-70.1		25	21.2
80	28	17,652	-71.1		25	16.8
70	26	18,441	-69.9		26	12.7
60	24	19,361	-68.0		25	7.9
50	24	20,465	-65.0		26	5.2
40	23	21,834	-62.8		28	2.8
30	23	23,617	-60.4		27	3.8
25	21	24,761	-59.3		30	4.4
20	20	26,163	-58.1		30	4.8
15	18	27,981	-55.8		29	5.0
10	12	30,599	-49.8		27	15.6
7						

* WAKE IS., PACIFIC AREA
1015 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.h.
SFC	31	5	25.4	20.8	07	5.4
1000	31	135	24.5	18.8	07	6.4
950	31	583	20.5	17.0	08	6.8
900	31	1,048	17.4	12.6	09	5.8
850	31	1,535	14.6	7.3	09	4.6
800	31	2,047	13.9	.3	09	3.4
750	31	2,590	12.5	-5.2	07	2.2
700	31	3,166	10.1	-11.5	05	1.6
650	31	3,778	7.4	-14.4	36	1.8
600	31	4,432	3.7	-17.7	31	2.1
550	31	5,133	-.6	-21.2	32	3.6
500	31	5,887	-5.9	-25.5	31	4.6
450	31	6,703	-11.5	-30.3	31	6.3
400	30	7,598	-16.8	-34.9	30	8.3
350	30	8,589	-24.0	-40.9	30	10.2
300	30	9,692	-32.3	-47.8	30	11.7
250	30	10,955	-41.4		29	13.3
200	30	12,433	-52.8		29	12.6
175	30	13,282	-59.4		28	11.7
150	30	14,231	-66.6		28	11.0
125	30	15,313	-74.3		28	9.1
100	30	16,587	-81.5		26	4.5
80	30	17,830	-83.4		10	1.3
70	30	18,578	-80.2		10	3.7
60	30	19,467	-72.5		10	4.8
50	28	20,561	-64.6		09	5.2
40	28	21,933	-61.9		11	3.7
30	28	23,729	-59.1		03	2.0
25	28	24,878	-57.4		02	2.4
20	27	26,292	-55.5		35	1.9
15	26	28,149	-51.1		31	2.5
10	23	30,813	-46.6		27	9.2
7	12	33,193	-42.9			

* WALLOPS ISLAND, VA NASA
1019 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.h.
SFC	31	4	3.1	1.0	29	1.8
1000	30	165	4.6	-.6	30	3.2
950	31	578	4.3	-3.1	28	6.9
900	31	1,017	3.1	-6.3	28	9.0
850	31	1,479	1.9	-10.5	27	10.2
800	31	1,967	.5	-11.9	27	12.7
750	31	2,484	-1.3	-13.8	27	15.5
700	31	3,032	-3.4	-16.1	27	19.0
650	31	3,615	-6.5	-19.2	27	22.1
600	31	4,236	-10.0	-23.1	27	25.2
550	31	4,902	-13.7	-26.8	27	28.0
500	31	5,620	-18.6	-30.8	27	31.7
450	31	6,398	-23.5	-34.1	27	35.2
400	31	7,250	-29.5	-39.0	27	39.1
350	31	8,193	-36.0	-42.9	27	42.9
300	31	9,244	-43.3	-49.0	27	48.1
250	31	10,450	-51.7		27	50.6
200	31	11,877	-57.0		27	51.5
175	31	12,720	-58.2		27	49.1
150	31	13,690	-58.4		27	45.3
125	30	14,820	-60.6		27	40.1
100	30	16,198	-63.9		27	33.8
80	28	17,558	-64.8		27	25.4
70	26	18,377	-64.2		27	18.9
60	24	19,326	-62.3		27	13.5
50	24	20,455	-61.4		27	9.6
40	24	21,845	-59.8		28	6.1
30	24	23,648	-58.7		32	2.3
25	22	24,791	-57.8		33	1.9
20	20	26,205	-56.5		35	2.1
15	16	28,031	-54.3		33	2.5
10	8	30,652	-52.4			
7						

RAWINSONDE DATA

Average monthly values

JANUARY 1975

Standard pressure surface (mb)	WASHINGTON DULLES INT. AP 1009 MB No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	31	85	-1.2	-4.7	29	.9
1000	27	178	-.2	-4.7	29	1.6
950	31	572	1.7	-5.4	26	4.7
900	31	1,007	-.1	-6.4	27	8.0
850	31	1,463	-.7	-11.0	27	10.8
800	31	1,947	-1.2	-13.5	27	13.9
750	31	2,461	-2.5	-14.8	27	16.4
700	31	3,006	-5.1	-16.0	27	19.0
650	31	3,586	-7.7	-18.7	27	21.8
600	31	4,205	-11.2	-24.1	27	24.5
550	31	4,868	-15.3	-27.6	26	27.1
500	31	5,581	-20.3	-31.5	27	30.6
450	30	6,353	-25.7	-35.7	27	33.4
400	30	7,196	-31.4	-40.3	26	36.6
350	30	8,133	-37.5	-44.5	26	40.7
300	30	9,178	-44.8		26	45.3
250	30	10,376	-52.3		27	49.5
200	30	11,803	-56.5		27	44.3
175	30	12,649	-56.9		27	43.0
150	30	13,625	-57.3		26	40.2
125	29	14,768	-59.8		26	33.0
100	29	16,152	-63.0		26	30.7
80	29	17,523	-63.3		27	23.0
70	29	18,343	-63.8		27	17.4
60	29	19,290	-62.7		27	14.0
50	29	20,419	-61.1		28	12.9
40	25	21,800	-60.4		27	10.1
30	24	23,595	-59.3		28	6.6
25	22	24,742	-58.5		30	5.1
20	19	26,148	-56.6		31	4.7
15	15	27,957	-55.2		29	8.1
10	10	30,558	-53.4			

Standard pressure surface (mb)	WAYCROSS, GA 1015 MB No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	31	44	9.7	8.3	22	.3
1000	31	167	11.9	9.2	21	.8
950	31	598	12.5	7.1	21	4.6
900	31	1,052	11.1	2.5	23	6.1
850	31	1,528	9.7	-1.9	24	8.1
800	31	2,030	8.1	-4.9	24	9.2
750	31	2,561	6.0	-7.7	24	10.8
700	31	3,123	3.1	-11.0	25	13.0
650	31	3,720	.0	-14.6	25	14.8
600	31	4,357	-3.6	-18.0	25	17.3
550	31	5,039	-8.1	-23.3	25	19.4
500	31	5,773	-13.0	-27.2	25	20.9
450	31	6,567	-18.5	-32.5	25	23.8
400	31	7,435	-25.0	-38.3	25	25.4
350	31	8,394	-32.3	-42.8	25	29.4
300	31	9,460	-40.8	-48.6	25	31.8
250	31	10,676	-50.1		25	36.8
200	31	12,100	-59.3		25	41.1
175	31	12,935	-60.0		26	40.6
150	31	13,895	-61.4		26	37.0
125	30	15,011	-65.4		26	31.1
100	27	16,342	-69.8		26	23.7
80	24	17,664	-72.1		26	18.2
70	23	18,453	-70.4		26	14.2
60	20	19,374	-67.8		26	10.4
50	20	20,479	-64.8		27	5.2
40	19	21,849	-62.5		28	2.2
30	18	23,636	-59.8		28	1.2
25	17	24,776	-59.0		28	2.0
20	16	26,182	-57.3		32	1.2
15	16	28,012	-54.7		26	.9
10	11	30,637	-49.7			

Standard pressure surface (mb)	WINNEMUCCA, NV 872 MB No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	1,312	-5.7	-9.5	21	.5
1000						
950						
900						
850	30	1,510	.2	-6.9	21	1.9
800	30	1,996	-.6	-10.0	25	4.8
750	30	2,510	-2.7	-12.5	27	7.4
700	30	3,053	-5.7	-15.4	28	11.1
650	30	3,631	-9.0	-17.4	29	13.6
600	30	4,247	-12.8	-21.0	29	17.2
550	30	4,906	-16.5	-25.0	30	19.7
500	30	5,617	-20.6	-29.2	30	21.6
450	30	6,388	-25.7	-34.2	30	23.5
400	30	7,232	-31.3	-40.0	30	24.4
350	30	8,168	-38.3	-44.9	30	28.2
300	30	9,207	-46.0		30	29.1
250	29	10,411	-53.3		31	30.7
200	29	11,832	-57.8		30	33.1
175	29	12,675	-57.2		30	32.0
150	29	13,649	-57.7		30	28.1
125	29	14,794	-60.2		30	22.9
100	29	16,180	-62.1		30	15.9
80	28	17,553	-64.0		31	12.3
70	28	18,372	-63.0		31	9.4
60	28	19,322	-62.6		32	6.5
50	28	20,450	-61.1		34	4.0
40	28	21,840	-59.9		35	2.4
30	25	23,650	-58.6		05	4.1
25	21	24,814	-58.0		05	4.8
20	19	26,219	-57.9		06	7.1
15	12	28,044	-56.2			
10						

Standard pressure surface (mb)	WINSLOW, AZ 853 MB No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	31	1,487	-8.3	-10.2	19	1.2
1000						
950						
900						
850	19	1,562	-6.1	-9.3	33	.2
800	31	2,002	.6	-10.0	27	2.1
750	31	2,519	-.3	-12.0	29	3.4
700	31	3,069	-2.3	-15.1	30	5.3
650	31	3,655	-5.0	-18.8	31	8.2
600	31	4,280	-8.5	-21.6	31	10.7
550	31	4,949	-13.0	-26.5	30	12.8
500	31	5,668	-18.2	-30.4	30	14.3
450	31	6,447	-23.9	-35.3	30	16.0
400	31	7,296	-30.3	-40.9	30	16.6
350	31	8,235	-37.2	-46.6	30	19.2
300	31	9,280	-45.0		30	21.4
250	31	10,478	-52.6		29	23.7
200	30	11,904	-56.5		31	23.0
175	29	12,752	-57.4		30	21.5
150	27	13,731	-59.1		30	19.8
125	27	14,866	-62.5		30	17.5
100	25	16,229	-66.6		30	14.3
80	25	17,577	-67.2		30	9.7
70	24	18,385	-66.1		29	7.3
60	22	19,320	-64.2		31	5.0
50	22	20,435	-63.5		33	3.0
40	20	21,824	-61.1		01	1.7
30	18	23,618	-59.8		03	3.1
25	18	24,758	-59.6		04	3.7
20	15	26,150	-58.9		05	3.7
15	10	27,980	-55.7		07	4.7
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Standard pressure surface (mb)	YAKUTAT, AK 1007 MB No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed
SFC	28	12	-4.4	-8.6	08	[illegible]
1000	20	117	-2.7	-9.6	09	[illegible]
950	28	449	-3.9	-9.0	[illegible]	3.6
900	28	894	-6.5	-12.2	11	2.7
850	28	1,338	-9.2	-15.4	14	[illegible]
800	28	1,805	-11.8	-18.9	19	2.7
750	28	2,297	-14.9	-22.4	21	[illegible]
700	29	2,815	-18.3	-25.9	23	3.1
650	28	3,365	-21.7	-28.3	24	3.3
600	28	3,950	-25.5	-31.2	24	4.5
550	28	4,576	-29.7	-34.5	25	5.8
500	28	5,250	-34.1	-39.5	26	7.3
450	28	5,980	-39.1	-41.9	26	8.9
400	28	6,778	-44.3	-46.3	27	10.5
350	28	7,665	-48.9		27	12.6
300	28	8,668	-52.8		27	16.1
250	28	9,840	-54.0		28	19.4
200	28	11,282	-51.1		28	18.6
175	28	12,152	-50.5		28	18.5
150	28	13,157	-50.7		28	18.9
125	27	14,337	-50.7		27	20.6
100	27	15,792	-50.8		27	[illegible]
80	24	17,240	-50.8		27	19.4
70	24	18,110	-51.1		27	18.7
60	24	19,113	-50.9		28	17.8
50	23	20,307	-51.0		27	16.2
40	22	21,757	-50.5		28	15.1
30	20	23,628	-50.9		29	12.2
25	20	24,815	-50.5		26	12.2
20	16	26,287	-49.2		29	9.4
15	10	28,154	-50.0			
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Standard pressure surface (mb)	YAP, CAROLINE IS. 1009 MB No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	31	16	27.1	23.7	07	4.6
1000	31	90	26.0	23.1	07	6.0
950	31	542	22.9	20.7	07	11.2
900	31	1,013	20.1	17.5	07	11.9
850	31	1,505	17.2	14.0	08	10.9
800	31	2,022	15.1	9.1	08	10.2
750	31	2,567	12.7	3.8	08	10.0
700	31	3,144	10.1	-1.5	08	9.6
650	31	3,758	7.2	-5.4	09	10.3
600	31	4,413	3.6	-9.7	09	11.6
550	31	5,114	-.2	-13.8	09	11.9
500	30	5,872	-4.8	-18.9	09	12.0
450	29	6,695	-9.6	-23.6	09	11.7
400	29	7,595	-15.2	-29.2	10	10.3
350	29	8,594	-21.8	-35.1	09	9.0
300	29	9,707	-30.4	-42.6	10	8.4
250	28	10,976	-40.8	-50.9	11	8.4
200	28	12,455	-53.0		12	9.4
175	28	13,302	-59.9		11	10.9
150	28	14,248	-67.7		12	12.2
125	28	15,324	-75.5		11	13.0
100	27	16,589	-83.0		10	13.7
80	27	17,822	-84.5		10	13.6
70	27	18,573	-76.6		09	10.1
60	27	19,476	-69.6		09	8.2
50	26	20,580	-65.0		09	12.9
40	26	21,949	-62.5		09	19.4
30	24	23,748	-56.8		09	23.7
25	24	24,912	-53.9		09	19.8
20	22	26,356	-49.8		09	6.8
15	21	28,247	-47.4		26	8.4
10	13	30,933	-44.4			

Standard pressure surface (mb)	YUCCA FLAT, NV 884 MB No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	31	1,198	-4.5	-9.2	33	1.3
1000						
950						
900						
850	31	1,515	2.9	-11.4	35	3.4
800	31	2,005	2.1	-12.4	34	3.2
750	31	2,525	.5	-13.9	33	4.9
700	31	3,076	-2.3	-16.6	32	6.5
650	31	3,661	-5.4	-20.8	31	8.9
600	31	4,285	-9.2	-23.6	31	11.5
550	31	4,953	-13.2	-28.2	31	14.0
500	31	5,672	-18.0	-32.7	31	16.1
450	31	6,450	-23.6	-37.0	31	18.1
400	31	7,300	-30.0	-41.7	31	18.9
350	31	8,239	-37.4	-46.0	31	20.4
300	31	9,283	-45.7		31	20.3
250	31	10,479	-52.1		31	22.9
200	31	11,904	-57.3		30	23.6
175	31	12,746	-58.3		30	23.8
150	30	13,708	-59.2		30	21.1
125	30	14,845	-61.4		30	18.5
100	30	16,218	-64.5		30	14.6
80	28	17,575	-65.8		30	10.0
70	28	18,388	-64.8		32	7.0
60	28	19,333	-63.5		33	4.4
50	28	20,456	-61.7		34	2.6
40	23	21,848	-60.5		03	2.3
30	22	23,649	-59.0		07	3.6
25	20	24,801	-58.6		07	3.9
20	16	26,205	-58.3		07	7.0
15	6	27,998	-56.7			
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SOLAR RADIATION INTENSITIES

Tabulated in langleys per minute on a surface normal to the direction of the sun. JANUARY 1975

ALBUQUERQUE, N. MEX.

Date	A.M. 78.7°	A.M. 75.7°	A.M. 70.7°	A.M. 60.0°	*	P.M. 60.0°	P.M. 70.7°	P.M. 75.7°	P.M. 78.7°
Air mass	4.19	3.35	2.51	1.67	*	1.67	2.51	3.35	4.19
2-----	----	----	----	----	----	----	1.05	.97	.82
3-----	.91	1.02	1.14	1.31	1.35	1.30	1.11	1.00	.89
4-----	1.02	1.11	1.22	1.38	1.39	1.34	1.18	1.08	.97
5-----	1.02	1.12	1.24	1.38	1.40	1.36	1.23	----	.99
6-----	1.01	1.12	1.22	1.37	1.39	1.38	1.21	----	(.96)
8-----	(1.04)	(1.18)	----	----	----	----	----	----	----
11----	1.02	1.12	1.23	----	1.40	----	----	----	----
12----	1.03	1.14	1.27	1.41	1.43	1.40	1.22	1.11	1.00
14----	1.02	1.14	1.23	1.39	1.42	----	----	1.08	1.02
15----	1.08	1.18	1.28	1.42	1.45	1.39	1.25	1.11	1.01
17----	.99	1.09	1.21	1.36	----	1.34	1.21	1.07	(.86)
18----	1.01	1.11	1.21	1.34	1.36	(1.27)	1.17	1.07	.96
19----	.98	1.08	1.20	1.33	1.37	1.32	1.14	1.05	.96
20----	----	----	(1.15)	1.39	----	----	----	----	----
21----	1.02	1.12	1.25	----	----	----	----	----	----
22----	.86	.98	1.15	1.30	1.36	1.31	1.18	1.02	.92
23----	.99	1.10	1.22	1.38	1.40	(1.34)	----	(1.04)	.92
24----	1.04	1.14	1.25	1.38	1.41	1.38	1.25	1.12	1.02
25----	1.02	1.11	1.23	1.38	1.42	1.37	1.21	1.10	1.00
26----	1.04	1.14	1.25	1.39	1.46	1.39	1.24	1.13	1.02
28----	.94	1.03	1.12	(1.20)	(1.50)	1.28	1.15	1.04	.94
Averages	1.00	1.10	1.22	1.37	1.40	1.35	1.19	1.07	.96

MADISON, WIS.

Date	A.M. 78.7°	A.M. 75.7°	A.M. 70.7°	A.M. 60.0°	*	P.M. 60.0°	P.M. 70.7°	P.M. 75.7°	P.M. 78.7°
Air mass	4.69	3.75	2.81	1.88	*	1.88	2.81	3.75	4.69
1-----	S .93	S 1.20	----	----	----	----	----	----	----
4-----	----	----	----	----	----	----	----	S .92	S .82
14----	S .90	S 1.00	S 1.12	----	S 1.18	----	----	----	----
16----	----	----	S 1.08	----	S 1.19	----	S 1.07	S .94	S .86
19----	----	----	----	----	----	----	S 1.14	----	----
Averages	.91	1.10	1.10	----	1.18	----	1.10	.93	.84

MAUNA LOA OBSERVATORY, HAWAII

Date	A.M. 78.7°	A.M. 75.7°	A.M. 70.7°	A.M. 60.0°	*	P.M. 60.0°	P.M. 70.7°	P.M. 75.7°	P.M. 78.7°
Air mass	3.36	2.69	2.01	1.34	*	1.34	2.01	2.69	3.36
1-----	1.22	1.31	1.40	1.54	1.65	1.54	1.40	1.30	1.21
2-----	1.26	1.33	1.43	1.50	----	1.59	1.39	1.27	1.08
14----	----	----	----	----	1.59	1.53	----	1.24	1.14
15----	1.17	1.25	1.36	1.51	1.60	1.49	1.36	1.25	1.16
16----	1.21	1.29	1.40	1.53	1.63	1.53	1.42	1.30	1.22
17----	1.25	1.34	1.43	1.55	1.63	----	1.37	1.27	1.19
18----	1.24	1.32	1.42	1.54	1.58	----	----	----	----
19----	1.18	1.28	1.38	1.50	----	----	----	----	----
20----	1.19	1.26	1.37	1.50	----	----	----	----	----
21----	1.21	1.29	1.40	1.53	1.60	1.50	1.40	1.28	1.47
22----	1.22	1.32	1.41	1.52	1.61	1.50	----	----	----
23----	1.13	1.34	1.38	1.51	1.59	----	1.34	1.23	1.15
24----	1.20	1.29	1.39	1.52	1.62	1.49	1.37	1.27	1.16
25----	1.31	1.38	1.47	1.57	----	1.55	1.44	1.34	1.23
26----	1.30	1.36	1.46	1.57	1.67	1.53	1.39	1.29	1.21
27----	1.28	1.35	1.45	1.57	1.62	----	1.33	1.24	1.16
28----	1.23	1.33	1.44	1.58	----	----	----	----	----
29----	1.09	----	1.32	1.45	----	----	----	----	----
Averages	1.22	1.32	1.41	1.53	1.62	1.53	1.38	1.27	1.20

BLUE HILL OBSERVATORY, MASS.

Date	A.M. 78.7°	A.M. 75.7°	A.M. 70.7°	A.M. 60.0°	*	P.M. 60.0°	P.M. 70.7°	P.M. 75.7°	P.M. 78.7°
Air mass	4.89	3.92	2.94	1.96	*	1.96	2.94	3.92	4.89
2-----	.58	.65	.78	----	----	----	----	.76	.69
4-----	.59	.66	.77	----	----	----	----	----	----
5-----	.68	.77	.85	----	----	----	----	----	.66
6-----	.70	.70	.85	----	----	----	.69	----	----
8-----	.58	----	----	----	.82	----	----	----	----
12----	.67	.77	.75	----	.90	----	----	----	----
15----	.62	.70	.80	----	----	----	.78	----	----
23----	.65	.72	.80	----	.89	----	.78	.68	.58
Averages	.63	.71	.80	----	.87	----	.75	.72	.64

TUCSON, ARIZ.

Date	A.M. 78.7°	A.M. 75.7°	A.M. 70.7°	A.M. 60.0°	*	P.M. 60.0°	P.M. 70.7°	P.M. 75.7°	P.M. 78.7°
Air mass	4.56	3.65	2.74	1.83	*	1.83	2.74	3.65	4.56
2-----	.68	.86	1.06	1.21	----	----	----	----	.88
3-----	.87	1.01	1.12	1.33	1.40	1.36	1.15	1.01	.89
4-----	1.04	1.16	1.28	1.41	1.45	1.40	1.22	1.06	.97
5-----	.95	1.04	1.15	1.38	1.42	1.38	1.18	1.05	.95
6-----	.95	1.07	1.21	1.37	1.41	1.33	1.16	1.03	.92
7-----	----	----	----	----	1.36	1.32	1.14	----	.92
8-----	.98	1.07	1.22	1.35	----	1.35	----	----	----
10----	----	1.03	----	----	----	----	----	----	----
12----	1.05	1.17	1.29	1.45	1.52	1.44	1.28	1.15	1.05
13----	1.04	1.14	1.25	1.39	1.48	1.40	1.25	1.09	.97
14----	1.06	1.15	1.26	1.41	1.46	1.39	1.22	1.08	.97
15----	1.06	1.16	1.26	1.42	1.46	1.41	1.23	1.11	.99
16----	1.01	1.11	1.26	1.41	----	----	----	----	----
17----	.94	1.05	1.18	1.36	1.42	1.34	1.15	1.04	.90
18----	.98	1.07	1.20	1.34	1.42	1.36	1.17	1.06	.97
19----	1.00	1.09	1.23	1.39	1.45	1.40	1.22	1.10	1.01
20----	1.04	1.12	1.27	1.41	1.46	1.40	1.23	----	----
21----	.91	1.04	1.16	1.34	1.38	1.36	1.15	1.06	.93
22----	.80	.88	1.07	1.29	1.34	1.27	1.05	.90	.76
23----	.81	.95	1.09	1.31	----	1.28	1.07	.93	.81
24----	.92	1.03	1.17	1.32	1.36	1.32	1.10	.97	.84
25----	.97	1.09	1.22	1.37	1.45	1.36	1.20	1.07	.97
26----	1.03	1.13	1.26	1.39	1.46	1.36	1.19	1.07	.99
27----	----	----	----	1.32	1.39	----	----	----	----
28----	----	----	----	----	1.31	----	----	----	----
31----	----	----	----	----	----	1.31	1.09	.92	.79
Averages	.96	1.06	1.20	1.36	1.42	1.36	1.18	1.04	.92

OMAHA, NEBR.

Date	A.M. 78.7°	A.M. 75.7°	A.M. 70.7°	A.M. 60.0°	*	P.M. 60.0°	P.M. 70.7°	P.M. 75.7°	P.M. 78.7°
Air mass	4.78	3.82	2.87	1.91	*	1.91	2.87	3.82	4.78

NO DATA RECEIVED

NET RADIATION

Net radiation in langleys per day (8 a.m. to 8 a.m.) at Palmer, Alaska.

JANUARY 1975

Date.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Avg.
Langleys. . .	- 75	- 86	- 61	- 60	- 81	- 87	- 77	- 23	9	- 6	- 59	- 44	- 47	- 5	- 6	- 45	- 43	- 34	- 8	- 59	- 56	- 48	- 65	- 37	- 78	16	- 25	- 28	-105	-102	- 75	- 48

SOLAR ULTRA-VIOLET RADIATION DATA

Daily totals and monthly average (< 3900 Å) at Ames, Iowa

Date.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Avg.
Langleys. . .																																

NO DATA RECEIVED

TOTAL OZONE DATA

These provisional ozone data are obtained from measurements made with a Dobson ozone spectrophotometer, and are applicable approximately to local apparent noon. The data are presented in the code [illegible] defined in the August 1962 WMO circular entitled "PUBLICATION OF DATA FOR METEOROLOGICAL RESEARCH, WORLD OZONE DATA."

Units Milli atmo-cms.

Station	Day of month																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean O_3

NO DATA RECEIVED

REFERENCE NOTES

OBSERVED EXTREMES OF TEMPERATURE AND PRECIPITATION -- BY STATES: Dates in the table apply to the period 24 hours prior to time of observation. In some cases the actual occurrence is on the calendar date preceding that shown. (See individual Climatological Data for times of observations)

+	And also on an earlier date or dates.
D	Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch of water equivalent to every 10 inches of snowfall.

CLIMATOLOGICAL DATA - METRIC UNITS: Data from airport unless otherwise specified.

Precipitation data in column headed "Greatest in 24 hours" are computed on a 24-hour basis without regard to calendar day - data may include precipitation with a measurable amount from the last day of the previous month or the first day of the following month.

Wind directions under resultant direction are in tens of degrees.

Value entered in column "Fastest Mile" is the highest observed 1-minute wind speed when the direction is in tens of degrees. These stations are not equipped with a recording anemometer from which "Fastest Mile data can be evaluated.

B	Number of days maximum 21.1°C. or above for Alaskan Stations.
Y	Peak Gust.
+	And also on an earlier date or dates.
U	Indicates Urban site.
R	Indicates Rural site.
Ø	Station pressures apply to elevations shown in the "Elevations" table of the annual issue of this publication.

Conversion formulae to English Units are as follows:

1 foot = 0.3048 meters
$^{\circ}F. = \frac{9}{5} \times {}^{\circ}C + 32$
1 inch = 25.4 millimeters
1 mile per hour = 0.447 meters per second

HEATING DEGREE DAYS: Data from airport unless otherwise specified.

U	Indicates Urban site.
R	Indicates Rural site.

COOLING DEGREE DAYS: Data from airport unless otherwise specified.

U	Indicates Urban site.
R	Indicates Rural site.

STORM SUMMARY:

°	Includes crop damage.
C	Crop damage.
*	No occurrence of storms or unusual weather phenomena reported.
@	Includes heavy sleet storm.
#	Freezing drizzle and freezing rain, commonly known as glaze.
Ø	For breakdown of "All Others," and for detailed listing of other storms, see the Environmental Data Service, NOAA, monthly publication STORM DATA.
‡	No Storm Data Report received for this State.
<>	Report Incomplete.
†	Storm damages are placed in categories varying from 1 to 9 as follows:

1	Less than $50
2	$50 to $500
3	$500 to $5,000
4	$5,000 to $50,000
5	$50,000 to $500,000
6	$500,000 to $5 Million
7	$5 Million to $50 Million
8	$50 Million to $500 Million
9	$500 Million to $5 Billion.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS:

1	Flooding continued at the end of the month.
NA	Not available.

FLOOD STAGE DATA:

#	Highest Stage Observed
1/	Continued at end of month
___	Highest Stage of Record
E	Estimated
P	Provisional (Flood Stage)
U	Unknown

RAWINSONDE DATA (Average Monthly Values):

All observations scheduled at 1200, G.C.T. Pressures shown under station names are the average monthly station pressures for the month of record, corrected to the height of the floors of the instrument shelters used for rawinsonde purposes. "Number of observations" refers to those of dynamic height only. Although the number of temperature observations at any given pressure surface is usually the same as for height, it is possible for temperature to be missing for one or more pressure surfaces of some observations. Dew Point averages are limited to those observations with temperatures warmer than -40°C. Observations of wind speed and direction are sometimes lost due to limiting angles, i.e., elevation angles less than 6° above the horizon, or any obstruction above the horizon. The temperature and wind values are based on 15 or more observations at the surface or 5 observations at a standard pressure level for temperature and 10 for wind. Dew Point data are not published for standard pressure surfaces for which less than 5 observations are available. Dew Point data are computed and expressed on the basis of vapor pressure over water. Unless otherwise indicated, they are obtained from carbon hygristors. These average values for standard pressure surfaces were obtained by rawinsondes; dynamic height (geopotential) in units of .98 dynamic meter, temperature and dew point in degrees Celsius, and resultant winds in tens of degrees and meters per second.

*	Rawinsondes at this station were equipped with hypsometers to permit more accurate evaluations of pressure, and consequently height, at pressures lower than 50 mb. These rawinsondes were carried aloft by special high altitude balloons, in an effort to consistently reach higher altitudes.
+	Observations for these stations are scheduled at 0000 G.C.T.
†	Dew Point temperatures are based on a minimum of 5 observations. Therefore, due to the lesser number of Dew Point observations at the higher levels comparison with dry-bulb temperatures should be made with care. Dew Point temperatures replaced Relative Humidity January 1967.

REFERENCE NOTES - Continued

SOLAR RADIATION INTENSITIES: Langley is the unit used to denote one gram calorie per square centimeter. An explanation of the formula used in computing the air mass values for each station appears in the February 1957 issue, Vol. 8, No. 2, page 63, of this publication.

()	Clouds Present	DM	Moderate Dust	HM	Moderate Haze	KS	Slight Smoke
*	Values corresponding to true solar noon	DS	Slight Dust	HS	Slight Haze	M	Moderate Haze-indeterminable
BD	Blowing Dust	F	Fog	I	Intense Haze-indeterminable		
BN	Blowing Sand	GF	Ground Fog	K	Smoke	N	Sand
D	Dust	H	Haze	KI	Intense Smoke	S	Slight Haze-indeterminable
DI	Intense Dust	HI	Intense Haze	KM	Moderate Smoke		

NET RADIATION: The measurement is made with a CSIRO FUNK net exchange radiometer over a plot of sod. The value represents the total incoming minus the total outgoing radiation of all wave lengths.

These data are of an experimental nature and are published as received from the Palmer Exp. Station. The instrument with which they were measured has not been checked by the NOAA, National Weather Service.

SOLAR ULTRA-VIOLET RADIATION DATA: These data are from an U-V Eppley total ultra violet sensor and Speedomax H (Leeds Northrup) Recorder. This instrument has not been checked by the NOAA, National Weather Service.

TOTAL OZONE DATA: The spectrophotometer measures the total amount of ozone in the atmosphere, i.e., the amount contained in a vertical column of air extending from ground level to the top of the atmosphere in the vicinity of the station. The amount of ozone in this column (coded $\Omega\ \Omega\ \Omega$) is expressed in terms of a thickness of a layer it would occupy at standard temperature and pressure, e.g., 350 milli-atmo-cm ozone implies an ozone layer 0.350 centimeter thick. The code λ_s designates the type of measurement made.

DESCRIPTION OF CHARTS

CHART I. A. NORMAL DAILY AVERAGE TEMPERATURE (°F. 1941-70) FOR MONTH. B. TEMPERATURE DEPARTURE FROM 30-YEAR MEAN (°F 1941-70) FOR MONTH. Chart I-A is reproduced from monthly normals maps prepared at the National Climatic Center. Chart I-B is a reproduction of monthly chart appearing in "Weekly Weather and Crop Bulletin," a publication of Environmental Data Service.

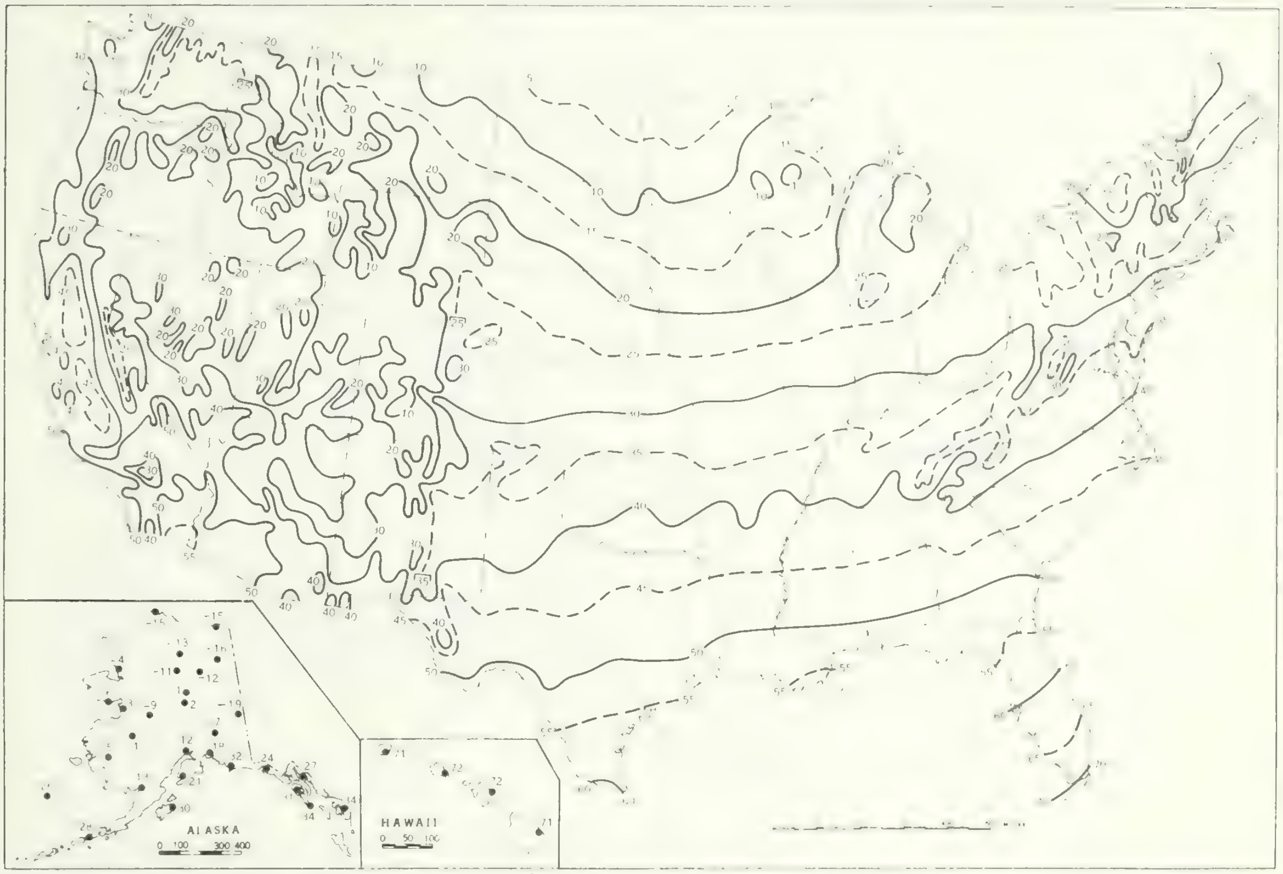
CHART II. A. TOTAL PRECIPITATION. Chart II. A. is a reproduction of monthly chart appearing in "Weekly Weather and Crop Bulletin."

CHART II. B. PERCENTAGE OF NORMAL PRECIPITATION. Chart II. B. is a reproduction of monthly chart appearing in "Weekly Weather and Crop Bulletin."

CHART III. TRACKS OF CENTERS OF ANTICYCLONES AT SEA LEVEL.

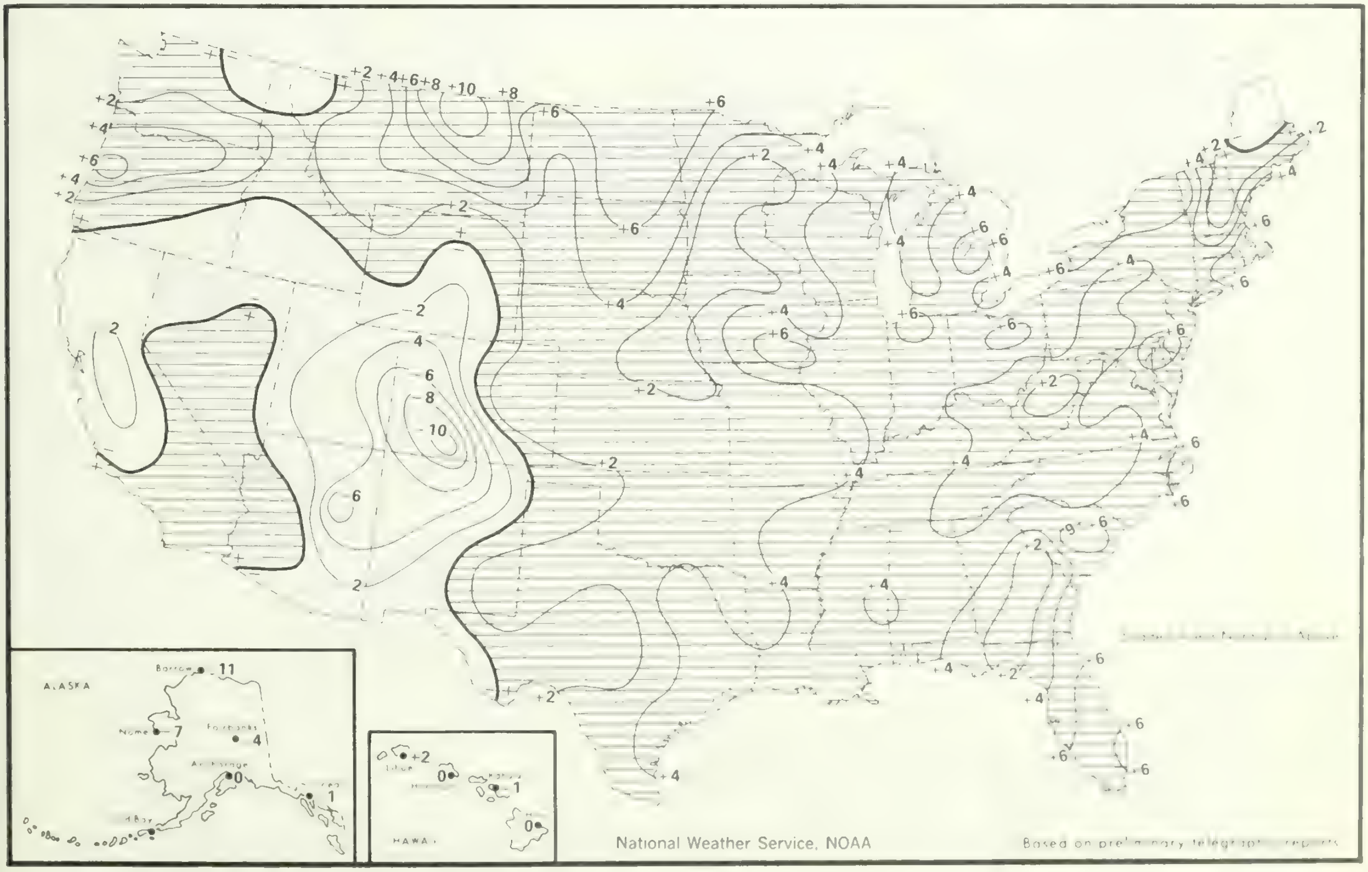
CHART IV. TRACKS OF CENTERS OF CYCLONES AT SEA LEVEL. Centers which can be identified for 24 hours or more are tracked in these charts. Semi-permanent features such as the Great Basin and Pacific Highs and Colorado and Mexico Lows are not shown. The 7:00 a.m., e.s.t., positions are shown by open circles, with the intermediate positions at 6-hour intervals shown by solid dots. The date is given above the circle and the central pressure to whole millibars below. A dashed track indicates a regeneration rather than actual movement to the next position. Solid squares indicate position of stationary center for period shown beside it.

Chart 1. A. Normal Daily Average Temperature (°F. 1941-70), January



ALASKA
0 100 300 400
HAWAII
0 50 100

B. Temperature Departure from 30 - Year Mean (°F. 1941-70), January, 1975

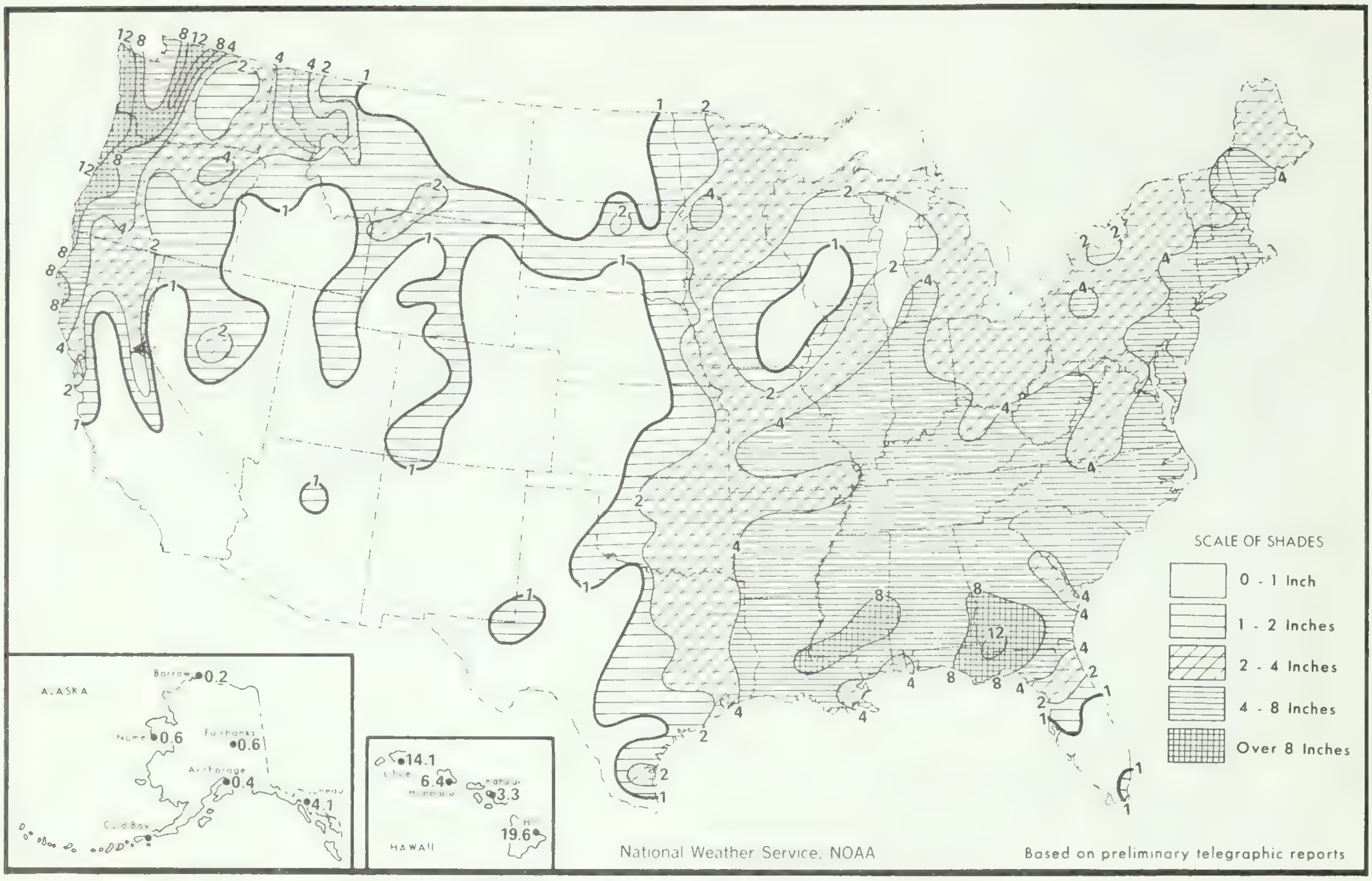


ALASKA
Barrow
11
Nome
7
Fairbanks
4
Anchorage
0
1
HAWAII
+2
0
1
0

National Weather Service, NOAA

Based on preliminary telegraphic reports

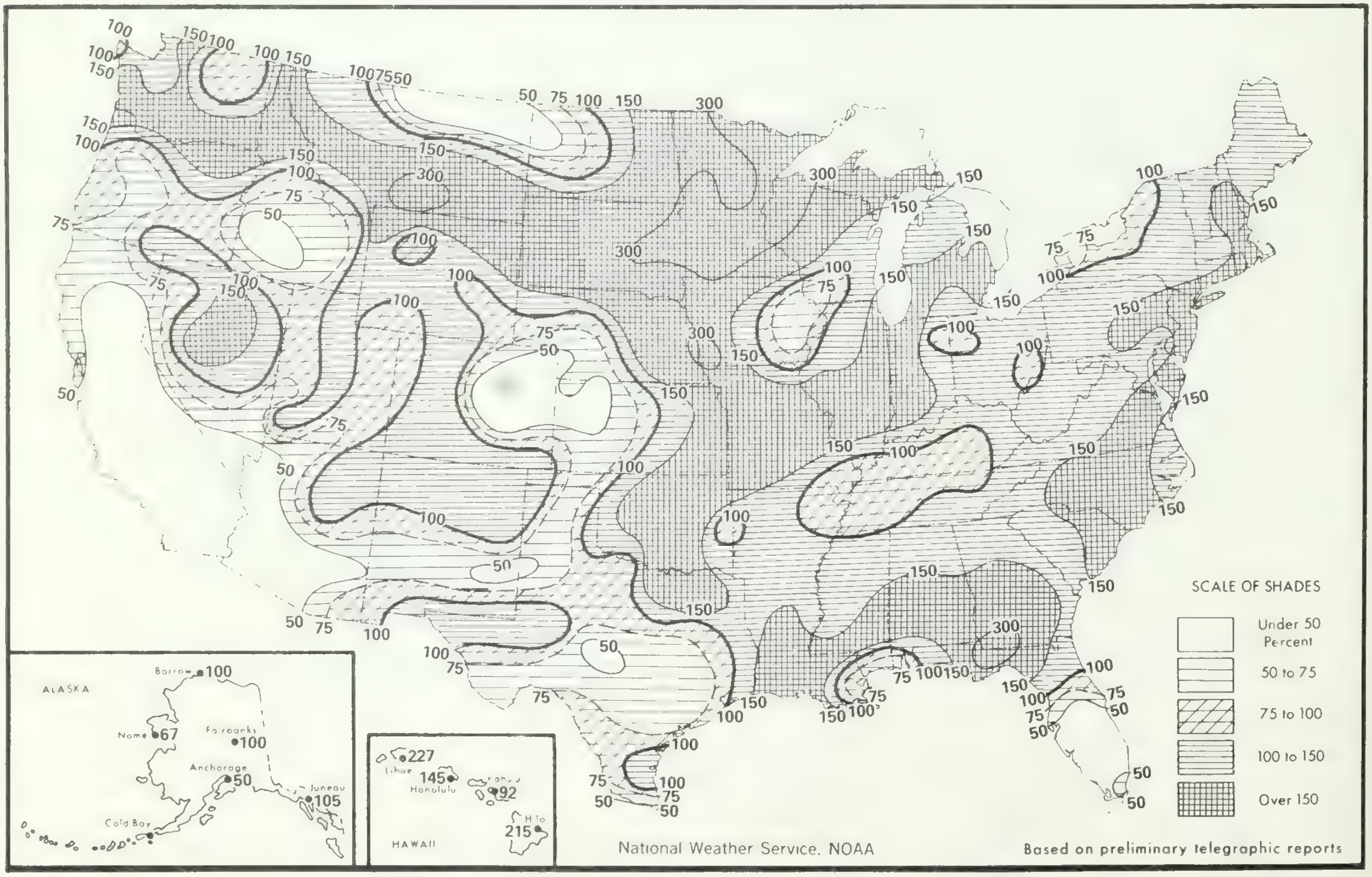
Chart II. A. Total Precipitation (Inches), January 1975


SCALE OF SHADES
0 - 1 Inch
1 - 2 Inches
2 - 4 Inches
4 - 8 Inches
Over 8 Inches
ALASKA
Barrow 0.2
Nome 0.6
Fairbanks 0.6
Anchorage 0.4
Juneau 4.1
Cold Bay
HAWAII
Lihue 14.1
Honolulu 6.4
Kahului 3.3
Hilo 19.6

National Weather Service, NOAA

Based on preliminary telegraphic reports

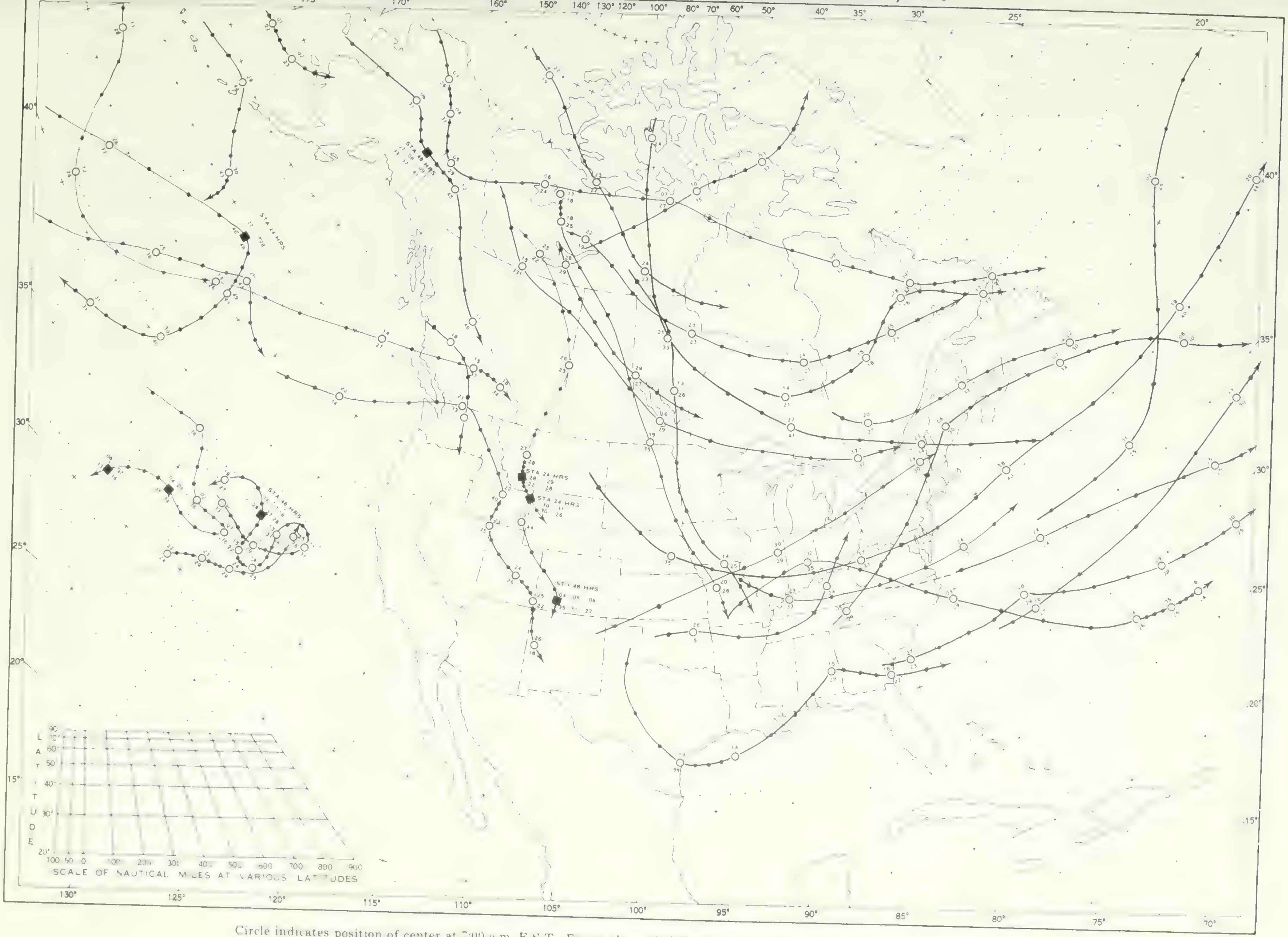
B. Percentage of Normal Precipitation, January 1975


SCALE OF SHADES
Under 50 Percent
50 to 75
75 to 100
100 to 150
Over 150
ALASKA
Barrow 100
Nome 67
Fairbanks 100
Anchorage 50
Juneau 105
Cold Bay
HAWAII
Lihue 227
Honolulu 145
Kahului 92
Hilo 215

National Weather Service, NOAA

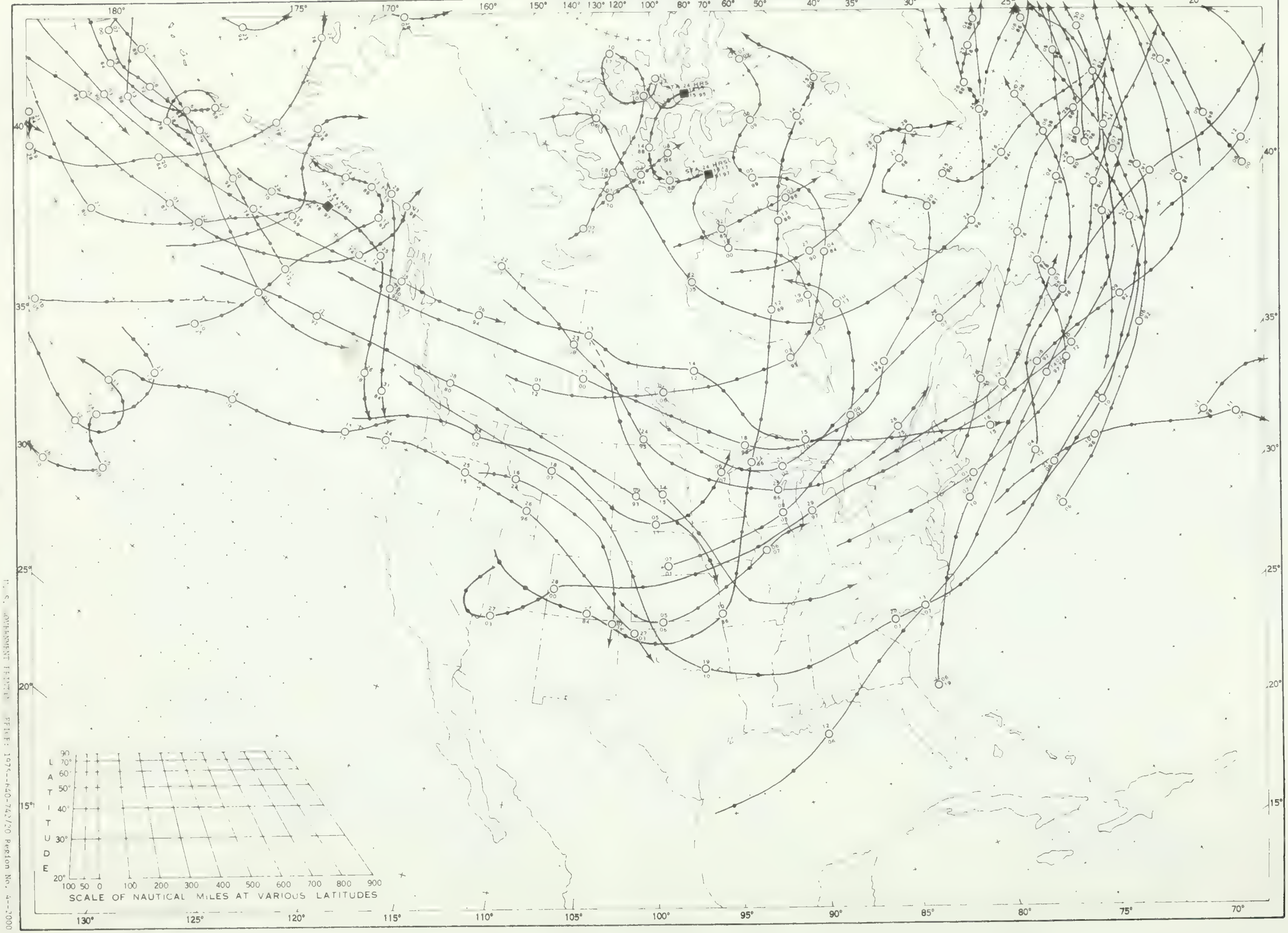
Based on preliminary telegraphic reports

Chart III. Tracks of Centers of Anticyclones at Sea Level, January 1975


180°
175°
170°
160°
150°
140°
130°
120°
100°
80°
70°
60°
50°
40°
35°
30°
25°
20°
40°
35°
30°
25°
20°
15°
STA 48 HRS
STA 24 HRS
STA 24 HRS
STA 24 HRS
STA 48 HRS
ST 48 HRS
LATITUDE
90
70°
60°
50
40°
30°
20°
100 50 0 100 200 300 400 500 600 700 800 900
SCALE OF NAUTICAL MILES AT VARIOUS LATITUDES
130°
125°
120°
115°
110°
105°
100°
95°
90°
85°
80°
75°
70°

Circle indicates position of center at 7:00 a.m. E.S.T. Figure above circle indicates date, figure below, pressure to nearest millibar. Dots indicate intervening 6-hourly positions. Squares indicate position of stationary center for period shown. Dashed line in track indicates reformation at new position. Only those centers which could be identified for 24 hours or more are included.

Chart IV. Tracks of Centers of Cyclones at Sea Level, January 1975



180°
175°
170°
160°
150°
140°
130°
120°
100°
80°
70°
60°
50°
40°
35°
30°
25°
20°
40°
35°
30°
25°
20°
15°
130°
125°
120°
115°
110°
105°
100°
95°
90°
85°
80°
75°
70°
STA 24 HRS
LATITUDE
90°
70°
60°
50°
40°
30°
20°
100 50 0 100 200 300 400 500 600 700 800 900
SCALE OF NAUTICAL MILES AT VARIOUS LATITUDES

Circle indicates position of center at 7:00 a.m. E.S.T. Figure above circle indicates date, figure below, pressure to nearest millibar. Dots indicate intervening 6-hourly positions. Squares indicate position of stationary center for period shown. Dashed line in track indicates reformation at new position. Only those centers which could be identified for 24 hours or more are included.

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CLIMATOLOGICAL DATA

NATIONAL SUMMARY

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National Oceanic and Atmospheric Administration
Environmental Data Service

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NOTE: Late reports and corrections will be carried in the June and December issues of this publication. An explanatory page "Description of Charts' will be carried in the January and July issues.

SUBSCRIPTION PRICE: $8.85 a year including annual summary; $7.75 additional for foreign mailing; 60¢ single copy; $1.65 annual summary. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N. C. 28801. Attn: Publications.

I cerify that this is an official publication of the National Oceanic and Atmospheric Administration and is compiled from records on file at the National Climatic Center, Asheville, North Carolina 28801.

William H. Haggard

Director, National Climatic Center

CLIMATOLOGICAL DATA

NATIONAL SUMMARY

FEBRUARY 1975

GENERAL SUMMARY OF WEATHER CONDITIONS

Dr. Richard E. Felch, Climatologist

HLIGHTS: Precipitation was well above normal east
a line from Duluth, Minn., to El Paso, Texas, ex-
t for Florida and the Gulf Coast. Brownsville,
as, received only 0.09 inches, 7% of normal. The
ific Northwest was also well above normal. East-
Montana, western North Dakota, all of South
ota and Nebraska, western Kansas, eastern Colo-
o and most of Utah were well below normal.

Mississippi River divided the Nation in the dis-
bution of average temperatures for the month with
ve normal temperatures to the east. Most of
sas, Nebraska, Wyoming, and Montana averaged at
st 6° below normal, due primarily to extremely
d temperatures early in the month. Most of
rida averaged nearly 6° above normal.

CIPITATION: Three storm systems moved across the
ion during the first week of February, producing
e precipitation in most areas. Heaviest amounts
l in the Southeast and along the Pacific Coast.

same distribution of rainfall occurred the week
the 10th-16th with very heavy rains in Louisiana,
sissippi, Alabama, and Georgia. Amounts of 3 to
nches were common in this area. Violent weather
associated with the heavy rains. Tornadoes were
orted at Innis, La., Rolling Fork, Miss., and Bay
nette, Ala.

torm packing heavy precipitation, tornadoes, and
h winds cut a path from eastern Oklahoma through
Ohio Valley the week ending the 23d, dumping
cipitation in excess of 3 inches across a wide-
ead area including Illinois, Indiana, Kentucky,
Ohio. In the Southeast, other storms dropped 2
5 inches of rain on water-soaked soils. Heavy
w fell from eastern Oklahoma to northern Illinois.

the final week of February, precipitation was
rse with significant amounts limited to the Wash-
ton-Oregon coast and the New England area. As
storm mentioned above moved northeastward it was
accompanied by high winds. Gusts of over 60 m.p.h. were reported at Chicago.

TEMPERATURE: In the coldest spell of the winter, bitter cold temperatures moved into the northern Rockies during late January and continued until mid-February. Temperatures moderated considerably at month's end, but the average for the month was below normal in most of the western two-thirds of the Nation.

During the week ending on the 9th, temperatures averaged at least 24° below normal over most of Montana and well below normal all the way into south Texas. Helena, Mont., averaged only -6°, which is 29° below normal. Most of the remainder of the Nation was also below normal.

The cold weather in Montana and the central and northern Great Plains continued for a third week. However most Southern States warmed to above normal readings.

Most of the eastern United States experienced near or above normal temperatures during the week ending on the 23d. The greatest above normal readings occurred in the eastern Corn Belt, and New England where temperatures averaged at least 12° above normal. The coldest departures occurred in the southern Great Plains where parts of Texas, Oklahoma, and New Mexico averaged 12° below normal.

Except for an area from Minnesota to the Gulf Coast, the Nation ended the month with well above normal temperatures in most areas. Most of the western Great Plains averaged 3 to 6° above normal.

OBSERVED EXTREMES OF TEMPERATURE AND PRECIPITATION -- BY STATES

FEBRUARY 1975

STATE	Temperature						Precipitation			
	Monthly extremes						Monthly extremes			
	Station	Highest	Date	Station	Lowest	Date	Station	Greatest	Station	Least
		°F			°F			In.		In
Alabama	Brewton 3 SSE	83	18	3 Stations	12	10	Clayton	12.99	Fort Morgan	2.90
Alaska	Annette WSO AP	52	25	Allakaket	-62	12	Mac Leod Harbor	23.13	5 Stations	T
Arizona	Gila Bend	89	28	Sunrise Mountain	-19	18	Hawley Lake	5.86	4 Stations	.00
Arkansas	Magnolia 3 N	80	22	Gravette	0	7	Portland	12.48	Greenwood	3 00
California	2 Stations	88	28	Bridgeport	-16	11	Strawberry Valley	26.03	4 Stations	.00
Colorado	Delhi	73	10	Antero Reservoir	-37	19	Electra Lake	4.70	Rangely	T
Connecticut	Hartford WSO AP	57	22	2 Stations	-15	10	Groton	4.41	Dawson Lake	1.86
Delaware	Milford 2 WSW	77	24	2 Stations	10	10	Dover	3.69	Wilmgton Porter Reservoir	2.60
Florida	2 Stations	92	21	Fountain 3 SSE	19	8	Wewahitchka	7.21	Everglades	.09
Georgia	3 Stations	85	24	Blairsville Exp. Station	11	8	Clayton 1 SSW	12.59	Douglas 2 ESE	1.33
Hawaii	Hilo WSO 87 AP, Hawaii	88	2	Mauna Loa Slope Obs, Hawaii	28	28+	Keanae 346, Maui	21.40	Punchbowl Crater 709, Oahu	.90
Idaho	Bruneau	61	28	Stanley	-32	22	Wallace Woodland Park	6.45	Leadore 2	03
Illinois	Harrisburg	68	21	La Harpe	-18	9	Albion	8.05	Fulton Dam 13	1.05
Indiana	3 Stations	65	23+	Lafayette 5 S	-20	10	Crane Naval Depot	D 5.64	Hobart	1.53
Iowa	Keokuk Lock and Dam 19	55	21	Cherokee	-29	9	Donnellson 4 N	3.10	Alton	11
Kansas	4 Stations	70	28	Blaine	- 7	9	Rosalia	4.02	2 Stations	T
Kentucky	2 Stations	76	24+	Tomahawk 1 WSW	3	11+	Princeton 1 SE	7.42	Flemingsburg 1 SW	2.98
Louisiana	Houma	86	3	2 Stations	17	8+	Bastrop	10.71	Rockefeller Wildlife Ref.	.27
Maine	2 Stations	53	23	Van Buren 2	-44	10+	Sanford 2 NNW	2.59	Vanceboro 2	.98
Maryland	Salisbury	77	24	Oakland 1 SE	- 8	10	Assateague State Park	4.39	National Arboretum D. C.	1.84
Massachusetts	Chester 2	60	22	Birch Hill Dam	-23	10	Woods Hole	4.64	Taunton	2.64
Michigan	2 Stations	53	23	Champion Van Riper Park	-33	9	2 Stations	3.81	Lake City Exp Farm	68
Minnesota	Big Falls	50	20	Tower 3 S	-46	9	Bird Island	2 29	Dawson	08
Mississippi	State Line	84	19	4 Stations	16	10+	Greenville	11.35	Poplarville Exp. Station	1.57
Missouri	Berryman 6 NW	70	21	2 Stations	-18	9	Caruthersville	5.91	Unionville	.98
Montana	3 Stations	56	28	Lonesome Lake	-35	8	Troy 18 N	5.23	2 Stations	00
Nebraska	Benkelman	68	13	Agate 3 E	-36	9	Plattsmouth	2.00	Niobrara	04
Nevada	Pahrump 1 of N Lab.	80	28	Gibbs Ranch	-17	22	Mount Rose Bowl	12.42	Logandale UN Exp. Farm	.00
New Hampshire	Northwood	57	22	First Conn Lake	-33	11+	Mount Washington	8.92	Berlin	1.13
New Jersey	Belleplain State Forest	68	21	Sussex 1 SE	- 7	10	High Point Park	4.44	Cherry Hill	2 26
New Mexico	Artesia 6 S	80	11	2 Stations	-24	23	Sandia Crest	4.93	Los Lunas 3 SSW	T
New York	2 Stations	64	24	Massena FAA AP	-23	12	Hooker 4 N	6.84	Ogdensburg 4 NE	.87
North Carolina	2 Stations	84	24	Banner Elk	5	8	Coweeta Exp. Station	12.01	Danbury 1 NW	D2 24
North Dakota	Hettinger	50	24	Edmore 1 N	-30	8	Watford City 14 S	1.03	4 Stations	T
Ohio	Gallipolis	73	22	Mansfield 6 W	-22	10	Chilo Meldahl Dam	5.38	Stryker	1.68
Oklahoma	Hollis	78	13	Kenton	- 2	6	2 Stations	7.43	Goodwell Research Station	.09
Oregon	Gold Beach Ranger Station	75	21	Chemult	-14	21	Port Orford 5 E	28.08	Rome 2 NW	34
Pennsylvania	Uniontown 1 NE	75	25	2 Stations	-20	10	Newell	D 6.00	Wellsboro 3 S	1.69
Puerto Rico	4 Stations	90	28	Adjuntas Substation	-44	7	Pico Del Este	5.85	3 Stations	00
Rhode Island	Providence WSO AP	55	22	North Foster 1 E	- 3	10	Block Island WSO AP	4.26	North Foster 1 E	3.20
South Carolina	Marion	84	23	2 Stations	17	8	Salem	8.99	Charleston WSO CI	2 25
South Dakota	2 Stations	57	27	2 Stations	-36	9	Lead 1 E	1.47	2 Stations	.02
Tennessee	Kingsport	78	23	Mountain City 2	6	10	Linden 2	11.01	Bristol WSO AP	3 13
Texas	2 Stations	96	23	Perryton 5 NNE	- 1	6	Nacogdoches 2 ENE	12.80	2 Stations	00
Utah	La Verkin	72	28	Scofield	-30	22	Alta	6.91	2 Stations	01
Vermont	Ball Mountain Lake	55	23	2 Stations	-27	10	Mount Mansfield	5.13	2 Stations	1.65
Virginia	Back Bay Wildlife Refuge	80	24	Mt. Lake Biological Sta.	- 3	10	Newport News Press Bldg.	5.28	Manassas	1.00
Virgin Islands	Frenchmans Bay	88	18	Beth Upper New Works	63	6	Annas Hope	1.82	Frederiksted	03
Washington	Ice Harbor Dam	65	13	Chesaw 4 NNW	-15	8	Rainier Paradise R S	16.31	Mc Nary Dam	.75
West Virginia	2 Stations	78	24	Reedsville Exp. Farm	-13	10	Rowlesburg	5.45	Wardensville R M Farm	99
Wisconsin	Gurney	52	21	2 Stations	-38	9	Oconto 4 W	2.75	Foxboro	41
Wyoming	2 Stations	61	28+	Bondurant 3 NW	-41	22	Moran 5 WNW	3.95	3 Stations	02

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station		Pressure		Temperature								No of days				Precipitation			No of days		Snow, Ice pellets		Wind		Fastest mile (1.6 kilometers)			No of days (sunrise to sunset)				
	Elevation (ground)	Station	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min 0 C or lower	Average dew point	Average relative humidity	Total	Departure from normal	Greatest in 24 hours	25 mm or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m s		m s							%
ALABAMA																																
BIRMINGHAM	189	994.9	1017.8	15.9	4.2	10.1	1.8	22.8	23+	-5.0	8	0	7	5.0	73	124	-8	36	13	5	T	0	0.4	22	13.4	SW	23	4	5	19	7.4	43
HUNTSVILLE	190	994.6	1017.9	12.9	2.2	7.6	1.1	20.6	23	-7.2	10	0	12	3.9	78	126	-5	44	12	5	T	T	0.4	19	16.5	12	16	6	4	18	7.4	
MOBILE	64	1009.1	1017.2	21.0	9.8	15.4	3.2	27.2	3	-1.1	8	0	1	11.1	78	95	-26	44	13	1	0	0	0.5	19	11.6	19	23+	6	7	15	7.0	
MONTGOMERY	59	1010.8	1018.2	18.0	6.6	12.3	1.9	26.1	1	-3.9	8	0	3	6.7	73	196	89	[illegible]	15	4	0	0	0.1	35	15.2	SW	23	6	5	17	7.0	56
ALASKA																																
ANCHORAGE	35	1000.3	1005.5	-6.3	-14.9	-10.6	-2.7	5.0	26	-24.4	11+	0	27	-15.6	70	[illegible]	-2	7	12	0	391	457	0.6	34	12.5	1	10	10	3	15	6.0	63
ANNETTE	34	1007.8	1011.8	1.9	-3.8	-0.9	-3.6	11.1	25	-13.9	11	0	23			191	-45	59	14	0	351	279	2.9	11	17.9	13	21	7	7	14	6.4	
BARROW	9	1018.6	1019.3	-22.2	-28.4	-25.3	2.8	-3.3	5	-36.7	25	0	28	-27.8	78	7	2	2	9	0	91	127	1.3	8	14.3	23	7	10	3	15	5.7	
BARTER ISLAND	12	1016.3	1018.5	-24.5	-31.7	-28.1	0.5	-7.2	5	-43.9	16	0	28	-30.6	77	5	-4	2	10	0	69	152	0.3	25	28.2	27	8	6	4	18	6.9	
BETHEL	38	999.3	1005.3	-13.4	-21.3	-17.3	-4.1	1.7	4	-36.7	15	0	28			[illegible]	-12	2	8	0	145	254	1.9	5	14.8	4	20	9	4	15	6.4	
BETTLES	196			-16.2	-26.1	-21.2		-2.2	26	-38.9	20	0	28			14		5	8		[illegible]	584			10.3	5	21	5	5	18	7.4	
BIG DELTA	386			-13.2	-23.2	-18.2	-2.3	8.3	26	-41.7	11	0	28			T	-7	T	0		T	305										
COLD BAY	29	997.6	1001.0	-1.8	-7.5	-4.6	-2.5	4.4	8+	-15.6	15	0	24	-6.7	85	125	59	54	21	0	343	203	0.1	28	24.6	16	28	3	2	23	8.5	
FAIRBANKS	133	993.9	1011.9	-13.1	-26.2	-19.7	-0.5	5.6	26	-37.2	14	0	28	-27.2	53	[illegible]	-12	1	1	0	41	762	0.9	1	7.2	29	27+	11	5	12	5.4	
GULKANA	479			-13.1	-26.1	-19.6	-4.0	5.0	26	-42.2	13	0	28			7	-5	7	2		112	533										
HOMER	19			-2.8	-12.0	-7.4		4.4	28+	-21.1	12	0	27			87	47	25	15	0	[illegible]	229			14.3	7	20	10	3	15	[illegible]	
JUNEAU	4	1010.8	1011.7	-0.6	-7.8	-4.2	-1.9	7.2	19	-23.3	13	0	23	-12.2	56	96	8	19	14	0	419	305	4.2	11	18.3	12	23	9	4	15	6.3	48
KING SALMON	15	1001.7	1003.8	-10.4	-20.9	-15.6	-7.1	3.3	25	-33.3	15	0	28			19	-6	6	8	0	160	330	1.2	7	20.6	32	24	9	6	13	6.3	
KODIAK	4	998.0	1002.3	-0.7	-9.1	-4.9	-4.6	4.4	8	-20.0	23	0	27	-10.0	68	[illegible]	-5	42	12	0	688	203	2.4	30	13.9	31	18	9	8	11	5.8	
KOTZEBUE	3	1011.2	1011.5	-16.1	-23.7	-19.9	0.3	-2.2	5	-35.6	14	0	28	-23.9	69	17	9	5	12	0	257	610	3.9	9	19.7	11	1	9	1	18	6.7	
MCGRATH	105	995.6	1009.2	-14.2	-28.5	-21.3	-3.4	1.1	28+	-40.0	16+	0	28	-25.0	69	13	-10	4	10	0	264	787	0.4	34	9.4	21	22	6	6	16	6.8	
NOME	4	1007.5	1008.3	-12.3	-20.9	-16.6	-1.7	0.0	5+	-36.1	16	0	28	-19.4	76	43	22	20	11	0	541	[illegible]	3.3	6	16.5	3	26+	8	4	16	6.5	44
ST. PAUL ISLAND	7	1002.4	1003.3	-7.2	-11.4	-9.3	-4.3	3.9	5	-21.7	23+	0	28	-10.6	88	39	4	14	13	0	[illegible]	279	4.1	2	19.7	17	5	3	6	19	7.8	
SUMMIT	731			-11.9	-19.6	-15.7	-1.6	1.7	21	-33.9	12+	0	28			8	-23	4	7	0	91	889			16.1	21	22	8	3	17	6.5	
TALKEETNA	105			-5.9	-20.1	-13.0	-3.7	5.0	25	-34.4	4	0	28			14	-32	5	7	0	284	914			10.3	16	22	11	2	15	6.0	
UNALAKLEET	5			-13.2	-20.1	-16.6		-1.1	5	-34.4	14	0	28			8		2	10		9	229			15.5	8	2+					
YAKUTAT	9	1006.1	1007.2	-0.2	-8.4	-4.3	-2.1	4.4	21+	-20.0	3	0	24	-9.4	72	265	30	55	15	0	1732	1016	2.2	10	17.9	10	17	8	4	16	6.4	
ARIZONA																																
FLAGSTAFF	2135	785.3	1018.3	5.2	-10.1	-2.4	-1.6	14.4	28	-21.7	18	0	28	-10.6	57	48	11	13	9	0	462	279	1.4	22	12.1	SW	13	10	7	11	5.4	84
PHOENIX	340	977.7	1017.0	20.0	4.4	12.2	-0.6	27.8	28	-0.6	23	0	1	-1.1	45	8	-7	7	4	2	0	0	0.7	14	21.5Y	W	14	12	8	8	4.4	82
TUCSON	788	926.9	1015.9	18.3	2.5	10.4	-1.6	25.6	28	-3.9	23	0	5	-3.9	42	3	-14	2	2	1	T	0	1.0	23	16.1	W	21	14	8	6	3.9	91
WINSLOW	1490	851.0	1018.5	11.0	-4.9	3.1	-0.9	19.4	28	-10.6	23	0	27	-5.6	60	11	1	5	4	0	19	51	1.7	22	14.3	24	10	10	12	6	5.1	
YUMA	59	1010.2	1017.6	21.6	6.1	13.9	-1.3	30.0	28	1.7	23+	0	0	-1.1	40	T	-7	T	1	0	0	0	1.0	33	19.2	NW	21	17	5	6	3.4	94
ARKANSAS																																
FORT SMITH	136	1000.3	1017.5	9.9	-1.2	4.3	-1.9	19.4	13	-10.0	7	0	17	-1.1	73	94	13	55	8	1	142	127	1.0	33	13.4	W	11	7	4	17	6.9	50
LITTLE ROCK	78	1007.8	1017.6	12.8	1.1	7.0	0.9	23.9	22	-8.3	7	0	13	1.7	73	111	-1	35	13	4	[illegible]	T	0.7	34	17.0	NW	11	6	8	14	6.8	63
CALIFORNIA																																
BAKERSFIELD	145	1002.0	1019.9	18.3	6.6	12.4	1.1	26.7	28	0.6	17	0	0	5.0	64	41	14	17	6	0	0	0	0.5	3	11.2	33	16	9	9	10	5.4	
BISHOP	1252	874.0		13.9	-3.6	5.2	-0.1	22.8	28+	-9.4	22+	0	24			5	-22	3	5		T	T			23.2Y		16+	9	7	12	5.8	
BLUE CANYON	1609	838.5		5.3	-1.3	2.0	-1.0	14.4	24	-7.2	21	0	20			439	200	73	17		2451	1372	1.8	18	15.6	18	1	3	6	19	7.8	
EUREKA O	[illegible]			12.1	5.7	8.9	-0.2	17.8	8	-0.6	21	0	2			195	64	42	19		0	0			15.2	SW	19	5	2	21	7.9	39
FRESNO	100	1008.1	1020.0	15.6	4.2	9.9	0.0	23.9	28	-1.1	21+	0	7	5.0	76	25	-19	7	11	0	0	0	0.7	10	11.6	NW	16+	6	8	14	6.3	64
LONG BEACH	8	1018.0	1019.2	19.7	9.6	14.7	1.6	28.3	24	4.4	2	0	0	8.3	69	113	58	64	5	1	0	0	0.7	17	9.8	16	9	6	12	10	5.7	
LOS ANGELES	3	1015.2	1018.9	17.1	9.1	13.1	0.0	20.6	25+	4.4	2	0	0	7.2	75	82	23	45	7	1	0	0	1.2	28	15.6Y	W	21	8	9	11	5.8	
LOS ANGELES O	8			17.8	8.6	13.2	-1.3	26.7	24	4.4	22+	0	0			97	20	47	6		0	0			11.2	NW	14	9	10	9	4.9	76
MT SHASTA R	1078			5.1	-2.6	1.3	-1.9	13.9	28+	-10.6	4	0	21			211	69	77	14		1119	838										
OAKLAND		1019.6	1020.0	14.7	7.8	11.3	0.2	19.4	28	3.3	23	0	0	6.1	74	82	10	26	14	0	0	0	1.0	24	11.6	18	9	6	5	17	6.7	
RED BLUFF	104	1006.1	1019.1	13.3	3.9	8.6	-1.4	22.8	24	0.0	23+	0	2	3.3	75	145	64	50	13	0	0	0	0.5	21	17.0	SE	1	5	5	18	7.1	61
SACRAMENTO	5	1018.6	1019.4	14.2	5.0	9.6	-0.3	20.6	28+	-1.1	22	0	1	3.9	71	117	49	38	13	0	0	0	0.8	18	12.1	NW	16	6	7	15	6.3	55
SANDBERG R	1377	863.2		8.7	1.0	4.9	-0.8	19.4	28	-6.7	17	0	13	-4.4	61	41	-21	11	8		198	152	2.1	34	23.7	36	20+	8	7	13	[illegible]	
SAN DIEGO	4	1018.3	1019.4	17.6	9.4	13.6	-0.2	22.8	24	5.6	22+	0	0	6.7	67	24	-13	11	6	0	0	0	1.3	29	9.4	NW	22	9	9	10	5.3	68
SAN FRANCISCO	2	1019.0	1019.6	14.2	6.7	10.5	-0.2	19.4	28+	2.2	18	0	0	6.1	77	[illegible]	23	47	12	1	0	0	1.9	26	15.6	20	1	5	4	19	7.2	
SAN FRANCISCO O	16			14.6	9.1	11.8	-0.1	20.0	27	7.2	18	0	0			94	19	25	14													
SANTA MARIA	72			16.3	4.2	10.2	-0.9	24.4	27	-1.7	23+	0	6			82	21	44	9		0	0						10	6	12	5.9	
STOCKTON	7	1018.6	1019.7	14.7	4.5	9.6	0.1	22.8	28	-1.7	18	0	3	5.6	79	55	1	14	13	0	0	0	0.8	18	13.0	33	21+	5	6	17	6.9	
COLORADO																																
ALAMOSA	2297	768.0		2.7	-13.9	-5.6	-0.4	9.4	28	-21.1	23+	0	28			[illegible]	-1	3	5		[illegible]	[illegible]	1.0	23				9	11	8	4.7	

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station		Pressure		Temperature												Precipitation							Wind					No of days (sunrise to sunset)				
												No of days							No of days		Snow, Ice pellets				Fastest mile (1.6 kilometers)							
	Elevation (ground)	Station	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min 0 C or lower	Average dew point	Average relative humidity	Total	Departure from normal	Greatest in 24 hours	25 mm or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m s		m s							%
COLORADO																																
COLORADO SPRINGS	1874	807.0	1016.4	5.9	-8.4	-1.2	-0.8	17.2	24+	-21.7	6	0	27	-11.1	51	7	-1	4	7	0	122	51	1.4	36	20.6	35	23	7	10	11	5.9	
DENVER	1611	832.7	1014.8	7.3	-8.9	-0.8	-1.2	18.3	13	-23.9	6	0	27	-10.6	54	9	-8	4	6	0	102	51	0.6	30	17.0	N	23	10	5	13	5.8	55
GRAND JUNCTION	1476	851.7	1018.7	5.8	-4.8	0.6	-0.3	12.8	28	-12.8	6	0	26	-6.7	63	12	-3	7	6	0	112	25	0.8	7	18.8	NW	10	6	8	14	6.3	60
PUEBLO	1428	852.7	1015.3	8.9	-7.2	0.8	-0.7	21.1	24	-19.4	6	0	26	-8.3	57	6	-2	3	5	0	104	51	0.7	35	23.2	N	23	8	5	15	6.3	79
CONNECTICUT																																
BRIDGEPORT	2	1016.6	1017.1	3.4	-3.2	0.1	0.7	10.6	19	-12.2	14+	0	19	-3.9	75	79	10	22	11	0	264	178	2.1	30	15.6	29	26	6	8	14	6.7	
HARTFORD	52	1009.8	1016.6	3.2	-5.8	-1.3	1.6	13.9	22	-18.3	10	0	22	-8.3	62	82	1	32	13	0	406	203	2.1	29	14.8	SW	26+	3	11	14	6.8	62
DELAWARE																																
WILMINGTON	23	1014.6	1017.7	6.5	-2.2	2.2	1.3	16.7	24	-12.2	10	0	18	-3.9	66	75	5	19	13	0	122	102	1.5	28	12.5	28	26	6	9	13	6.8	
DIST.OF COLUMBIA																																
WASHINGTON DULLES	88	1006.1	1018.1	6.9	-3.7	1.7	0.7	20.0	24	-12.8	10	0	24	-3.9	68	56	-16	17	11	0	206	152	1.0	27	12.5	32	19	5	7	16	7.4	
WASHINGTON NATIONAL	3	1015.9	1018.2	9.0	0.6	4.8	1.8	21.1	24	-7.8	10	0	15	-2.2	62	40	-23	14	10	0	147	102	0.8	29	14.8	SW	25	7	5	16	7.0	49
FLORIDA																																
APALACHICOLA U	4			19.4	11.9	15.7	2.4	26.1	19	1.7	8	0	0			85	-11	38	10	2	0	0			11.6	E	22	5	7	16	6.9	52
DAYTONA BEACH	9	1017.3	1018.8	24.5	12.9	18.7	3.4	30.6	17	4.4	8	0	0	14.4	82	58	-17	18	9	1	0	0	0.5	23	10.3	28	24	8	9	11	6.0	
FORT MYERS	5	1018.0		28.3	14.6	21.4	3.3	32.8	22	6.7	8	2	0	15.6	74	7	-45	5	4	1	0	0	0.5	20	12.5	18	6	9	11	8	5.1	
JACKSONVILLE	8	1017.6	1018.7	22.4	9.6	16.1	2.6	28.9	18	-1.1	8	0	1	11.7	82	66	-25	27	9	2	0	0	0.2	24	14.8	W	19	7	4	17	6.6	57
KEY WEST	1	1017.3	1018.0	26.5	21.7	24.1	2.1	28.3	22	17.8	9+	0	0	19.4	77	41	-6	35	5	2	0	0	1.6	11	11.6	NW	24	12	11	5	4.5	77
LAKELAND U	65			25.2	14.9	20.1	3.3	30.0	17	5.0	8	0	0			52	-12	15	7		0	0						9	12	7	5.3	74
MIAMI	2	1018.3	1018.6	26.8	18.8	22.8	2.9	29.4	13+	11.7	8	0	0	17.2	71	23	-27	14	7	2	0	0	1.8	12	11.2	16	24	9	14	5	5.1	
ORLANDO/MC COY AFB	29	1014.9	1018.8	26.0	13.5	19.8	3.4	30.6	19+	5.6	26	0	0	14.4	77	38	-37	18	7	1	0	0	0.6	21	10.3	29	24+	7	8	13	6.1	
PENSACOLA	34	1013.5	1017.7	21.3	10.8	16.1	3.4	27.2	17	0.0	8	0	1	11.1	75	109	-10	42	10	5	0	0	0.6	13	11.2	19	16	6	7	15	6.9	
TALLAHASSEE	17	1015.9	1018.4	21.2	7.4	14.3	1.7	27.2	2	-5.6	8	0	4	10.0	80	72	-49	27	9	2	0	0	0.5	19	10.7	18	23	5	7	16	6.9	
TAMPA	6	1018.3	1018.4	24.9	13.5	19.2	2.7	29.4	22	3.9	8	0	0	13.3	72	40	-33	14	6	2	0	0	0.6	21	9.4	31	24	10	5	13	5.6	67
WEST PALM BEACH	5	1017.6	1018.4	27.6	17.0	22.3	3.3	31.1	24+	11.7	8	0	0	17.2	76	17	-49	6	5	1	0	0	1.4	14	10.3	22	24+	4	17	7	6.1	
GEORGIA																																
ATHENS	244	988.5	1018.0	15.2	3.6	9.4	1.8	23.9	23	-5.6	8	0	4	4.4	74	163	48	38	13	3	0	0	0.8	28	12.5	17	16	6	6	16	7.1	
ATLANTA	308	980.4	1017.7	14.3	2.4	8.4	1.2	21.7	23+	-7.2	8	0	9	3.3	73	228	116	53	14	3	T	T	0.5	26	13.4	S	12	5	6	17	7.1	42
AUGUSTA	41	1012.9	1018.1	16.5	3.6	10.1	1.0	25.6	23	-6.7	8	0	6	3.9	73	133	37	30	11	4	0	0	0.4	23	10.7	25	25	8	4	16	6.6	
COLUMBUS	117	1004.1		17.5	5.2	11.4	1.7	24.4	23+	-5.0	8	0	4	6.1	76	192	80	94	12	5	0	0	0.5	2	10.3	23	23	5	6	17	7.1	
MACON	108	1005.4	1018.6	17.7	5.5	11.6	1.4	26.7	23	-5.0	8	0	4	6.1	74	175	64	82	12	3	0	0	0.4	27	13.0	S	23	5	7	16	7.2	50
ROME	194			14.5	2.1	8.3	1.7	23.9	17	-8.9	8	0	10			185	53	42	16		0	0										
SAVANNAH	14	1017.3	1018.9	20.2	8.3	14.3	3.1	28.3	18	-1.7	8	0	1	8.9	76	76	4	21	10	0	0	0	0.7	26	11.6	W	17	7	4	17	7.0	46
HAWAII																																
HILO	8	1016.3	1017.3	26.1	18.3	22.2	0.5	31.1	2	15.6	21	0	0	17.2	77	236	-92	77	22	0	0	0	0.4	1	11.6	SE	1	3	10	15	7.4	41
HONOLULU	2	1016.6	1017.0	27.1	18.3	22.7	0.3	28.9	15	14.4	7+	0	0	16.7	72	60	-3	47	7	1	0	0	3.1	5	13.4	NE	27	8	12	8	6.0	59
KAHULUI	15	1014.6	1016.8	26.0	18.7	22.3	0.3	28.3	20+	13.3	8	0	0			126	59	49	16	1	0	0	3.9	5	12.5	NE	25+	10	8	10	5.9	54
LIHUE	31	1013.2	1018.2	24.9	18.9	21.9	0.1	26.1	27+	14.4	9	0	0	16.7	74	110	2	167	11	0	0	0	3.3	5	9.4	NE	27+	6	13	9	6.0	62
IDAHO																																
BOISE	865	916.4	1018.8	6.4	-0.9	2.7	0.8	11.1	28+	-10.0	17	0	17	-3.3	68	67	37	16	14	1	160	76	1.3	13	15.2	SE	1	2	7	19	7.9	42
LEWISTON	431			5.8	-2.2	1.8	-1.6	13.9	23	-8.3	6	0	20			38	17	14	16		287	127			22.8Y		20	3	4	21	8.4	
POCATELLO	1358	862.9	1019.9	1.8	-5.9	-2.1	-0.6	7.8	28	-16.7	6	0	25	-6.7	70	38	18	10	14	0	224	25	3.3	22	18.8	SW	20	2	4	22	8.4	41
ILLINOIS																																
CAIRO U	96			8.2	0.6	4.4	0.1	18.9	21	-10.0	9	0	12			113	17	71	9		20	T			13.9	SW	24+					33
CHICAGO O HARE	201	991.2	1016.4	0.2	-6.7	-3.2	0.1	9.4	21	-21.7	9	0	25	-6.7	75	63	30	18	12	0	208	76	1.5	27	15.6	27	25+	2	7	19	7.9	
CHICAGO MIDWAY	185	993.6	1017.1	0.6	-6.2	-2.8	-0.3	10.6	21	-21.1	9	0	25	-7.2	71	58	18	15	10	1	231	51	0.8	27	15.6	W	25	2	5	21	8.2	40
MOLINE	177	995.3	1017.7	-0.6	-7.2	-3.9	-0.4	7.8	21	-21.7	9	0	26	-7.8	72	44	12	19	10	2	490	203	1.7	31	17.4	W	25	6	4	18	7.5	42
PEORIA	199	992.6	1017.5	0.0	-6.6	-3.3	-0.9	11.7	21	-25.6	9	0	27	-6.7	76	72	34	18	13	1	325	102	1.0	27	14.3	W	25	4	4	20	7.9	35
ROCKFORD	221	989.2	1017.1	-1.1	-8.8	-4.9	-0.5	5.6	21	-25.0	9	0	28	-8.9	71	52	19	14	15	0	472	203	1.1	32	14.3	28	25	3	8	17	7.5	
SPRINGFIELD	179	994.6	1017.7	1.8	-4.8	-1.4	-0.6	15.0	21	-21.7	9	0	23	-5.0	77	92	47	37	13	2	361	127	1.0	28	17.4	W	25	6	3	19	7.5	32
INDIANA																																
EVANSVILLE	116	1003.4	1017.7	7.6	-0.6	3.5	1.3	17.8	21	-11.7	10+	0	13	-1.1	74	103	20	56	11	3	33	25	0.7	28	13.9	W	25	6	4	18	7.5	36
FORT WAYNE	241	986.1	1017.2	0.9	-5.6	-2.3	0.1	8.9	21	-25.0	10	0	26	-6.1	76	51	0	26	14	0	132	51	1.5	25	21.0	W	25	2	5	21	8.4	41

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure		Temperature											Average relative humidity	Precipitation							Wind					No of days (sunrise to sunset)			Sky cover, tenths (sunrise to sunset)	Possible sunshine
												No. of days							No of days		Snow, Ice pellets				Fastest mile (1.6 kilometers)							
		Station ⊙	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min 0 °C or lower	Average dew point		Total	Departure from normal	Greatest in 24 hours	.25 mm or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10		
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
INDIANA																																
INDIANAPOLIS	241	987.1	1017.1	3.8	-3.8	0.0	0.7	12.8	21	-20.0	10+	0	22	-3.3	79	105	45	60	16	3	142	51	1.1	25	20.1	W	25	4	4	20	8.0	40
SOUTH BEND	236	987.1	1016.1	1.1	-5.8	-2.3	0.8	8.9	21	-23.9	10	0	25	-5.6	79	82	34	25	14	0	353	152	1.7	25	16.5	27	25	1	5	22	8.7	
IOWA																																
BURLINGTON	211			-0.3	-7.2	-3.7	-1.1	9.4	21	-25.0	9	0	28	-7.2	77	49	18	22	10	1	457	229	1.9	33	13.0	29	25	6	3	19	7.5	
DES MOINES	286	982.4	1018.6	-1.7	-9.0	-5.3	-1.0	6.7	21	-25.6	9	0	27	-10.0	68	38	11	11	9	0	455	178	1.8	33	15.6	NW	25+	5	3	20	7.7	33
DUBUQUE	322	976.6		-3.1	-10.8	-6.9	-1.3	3.9	21	-26.1	9	0	28			64	32	24	9		638	305										
SIOUX CITY	334	978.0	1019.9	-2.7	-11.5	-7.1	-2.3	6.7	27	-31.1	9	0	26	-11.1	72	7	-17	6	5	0	76	178	2.2	33	17.9	NW	24	6	7	15	7.0	47
WATERLOO	265	985.1	1018.4	-2.9	-11.2	-7.1	-0.8	4.4	21	-27.8	9	0	28	-11.7	67	24	6	11	8	0	318	152	1.8	33	16.1	36	24	5	2	21	7.8	
KANSAS																																
CONCORDIA	448	964.1	1019.1	1.1	-7.7	-3.3	-3.0	11.7	28	-18.3	9	0	28	-6.7	82	38	15	23	6	0	269	178	1.7	34	13.9	SW	27+	5	9	14	6.9	56
DODGE CITY	787	924.1	1017.8	4.8	-7.2	-1.2	-2.9	18.9	10	-17.8	6	0	28	-6.1	76	14	-2	7	5	0	155	76	1.7	35	17.0	NE	22	7	7	14	6.8	61
GOODLAND	1114	886.2	1016.9	6.5	-9.6	-1.5	-1.2	18.3	12	-17.8	9+	0	28	-9.4	63	4	-6	3	5	1	84	51	1.7	31	13.9	19	9	6	7	15	6.5	
TOPEKA	267	986.1	1019.1	2.2	-5.8	-1.8	-2.6	13.9	28	-17.8	9	0	27	-5.0	80	42	18	15	9	0	170	102	2.1	34	11.2	SW	27+	6	4	18	7.3	39
WICHITA	403	969.2	1018.6	2.8	-6.7	-1.9	-4.3	11.1	28	-16.7	19	0	26	-5.0	79	54	29	25	9	1	386	229	2.3	1	15.6	N	22	6	8	14	6.9	58
KENTUCKY																																
COVINGTON	265	984.8	1017.0	7.2	-1.6	2.8	2.1	18.3	22	-13.9	10	0	18	-2.8	70	86	9	54	16	3	56	25	1.3	24	12.5	27	25	4	3	21	8.0	
LEXINGTON	294	981.4	1017.6	8.8	-0.5	4.2	2.3	19.4	23	-12.8	10	0	17	-1.7	70	145	58	82	15	3	36	25	1.3	21	12.1	25	25	2	6	20	8.0	
LOUISVILLE	145	999.0	1017.1	8.9	0.2	4.6	2.4	18.3	23	-10.0	10	0	14	-1.1	69	115	27	72	14	4	33	25	1.0	25	15.6	W	25	2	7	19	7.7	44
LOUISIANA																																
ALEXANDRIA	28	1012.9	1017.1	18.5	5.2	11.9	1.6	27.8	22	-3.3	7	0	7	7.2	78	123	4	53	11	5	0	0	0.3	28	9.8	18	22	4	8	16	7.1	
BATON ROUGE	2	1014.6	1017.4	20.2	7.7	13.9	1.8	28.3	22	-2.8	7	0	3	9.4	75	36	-85	11	8	4	0	0	0.2	16	11.2	31	23+	5	9	14	6.4	
LAKE CHARLES	3	1015.9	1017.0	19.8	7.9	13.8	1.0	26.1	22	-2.2	7	0	1	10.0	81	27	-86	10	8	3	0	0	0.8	9	10.7	32	23	7	5	16	6.9	
NEW ORLEANS	1	1016.3	1017.1	20.8	9.1	14.9	1.8	27.2	18+	-1.1	8	0	2	12.2	83	92	-30	33	10	6	0	0	0.1	21	11.6	24	23	6	7	15	6.9	54
SHREVEPORT	77	1007.8	1017.1	15.6	2.6	9.1	-1.2	27.8	22	-5.0	7	0	11	3.9	72	115	20	36	13	5	T	T	0.4	29	10.3	29	23	7	1	20	6.9	46
MAINE																																
CARIBOU	190	987.8		-5.5	-17.3	-11.4	-0.8	5.0	23+	-32.8	12+	0	27			42	-11	21	9		249	584						6	6	16	7.0	
PORTLAND	13	1013.2	1015.5	1.6	-9.3	-3.9	1.2	10.0	25	-23.9	10	0	24	-9.4	66	64	-26	33	12	0	295	254	1.7	29	15.2	W	25	8	9	11	6.0	54
MARYLAND																																
BALTIMORE	45	1012.5	1018.2	8.4	-0.6	3.9	2.4	17.8	22	-9.4	10	0	19	-2.8	63	63	-9	20	10	0	140	102	1.3	28	16.1	W	26	6	7	15	6.8	50
MASSACHUSETTS																																
BLUE HILL OBS R	192			1.9	-5.0	-1.9	0.6	11.1	22	-16.7	14	0	24			101	1	35	11		511	356			26.8	SW	25					53
BOSTON	5	1015.2	1016.3	3.6	-3.6	0.1	0.9	12.2	22	-13.9	4	0	18	-7.2	61	86	-4	34	11	0	432	203	2.8	29	17.4	SW	25	6	10	12	6.2	53
WORCESTER	301	977.3		0.4	-8.1	-3.8	0.1	10.0	22	-20.0	10	0	27	-8.3	72	89	9	41	13	0	556	432	2.5	29	12.1	31	3	6	9	13	6.5	
MICHIGAN																																
ALPENA	210	989.5	1015.6	-0.7	-10.5	-5.6	2.0	10.0	21	-28.3	9	0	28	-10.6	67	32	-2	11	13	0	330	254	1.6	26	11.6	W	26	2	5	21	8.3	33
DETROIT	189			1.4	-3.9	-1.3	1.6	10.0	22	-15.6	10	0	21	-7.2	64					1			2.0	25	15.6	25	26					
DETROIT METRO	193	991.5	1016.3	0.6	-5.7	-2.5	0.5	7.8	22+	-21.1	10	0	25	-6.1	77	67	23	21	16	1	191	76	2.1	26	17.4	W	26	4	6	18	7.4	44
FLINT	235	986.8	1015.6	0.4	-5.8	-2.7	1.9	7.8	22+	-17.2	10	0	25	-6.7	74	51	11	13	10	0	322	127	2.0	26	14.3	26	25	2	6	20	8.3	
GRAND RAPIDS	239	985.8	1016.1	-1.0	-7.6	-4.3	-0.1	7.8	21	-19.4	10	0	26	-7.2	79	49	11	13	13	0	269	102	1.2	25	20.6	W	25	0	8	20	8.7	32
HOUGHTON LAKE	351	971.6	1015.4	-1.9	-10.6	-6.3	1.4	5.6	21	-22.8	9	0	28	-8.9	78	29	-2	9	14	0	315	152	1.2	27	13.0	27	25+	2	3	23	8.5	
LANSING	256	983.1	1016.0	0.3	-5.9	-3.3	1.2	7.8	21	-19.4	9	0	26	-5.6	83	53	12	11	13	0	343	127	1.8	24	15.2	W	26	2	6	20	8.0	35
MARQUETTE	206			-1.8	-8.1	-4.9	2.0	9.4	21	-23.3	9	0	27			53	15	29	15		729	584			10.7	NW	26	2	6	20	7.9	45
MUSKEGON	191	992.6	1016.3	-0.2	-6.4	-3.3	0.8	7.8	22	-17.2	10	0	26	-7.2	74	50	6	13	17	0	549	178	1.0	28	15.6	28	25	1	3	24	9.1	
SAULT STE MARIE	221	986.8	1014.5	-3.4	-12.3	-7.8	1.5	4.4	24+	-25.0	10	0	28	-11.7	72	59	22	14	14	0	833	762	0.8	29	13.4	W	26	1	5	22	8.3	40
MINNESOTA																																
DULUTH	435	963.1	1017.1	-6.2	-16.1	-11.1	-0.1	0.6	24+	-30.0	9	0	28	-13.9	77	19	-2	7	15	0	312	813	2.5	29	19.7	NW	25	6	6	16	7.0	42
INTERNATIONAL FALLS	359	972.2	1017.8	-7.3	-20.7	-14.0	-0.1	7.2	21	-37.2	13	0	28	-20.0	58	13	-5	4	8	0	177	711	1.7	28	10.3	30	25	8	7	13	6.1	
MINNEAPOLIS	254	986.8	1018.6	-4.9	-13.4	-9.2	-0.6	2.2	21	-30.0	9	0	28	-12.8	71	20	-1	7	8	0	244	483	1.5	31	16.5	NW	25	5	8	15	7.2	50
ROCHESTER	395	968.5	1018.4	-4.4	-14.1	-9.2	-0.8	3.3	21	-30.6	9	0	28	-12.2	74	19	3	9	8	0	259	356	1.8	30	17.4	30	25	5	4	19	7.5	
ST CLOUD	313	979.7	1019.2	-5.6	-16.7	-11.2	-0.8	2.8	27	-32.2	8	0	28			10	-10	4	7		130	610						8	6	14	6.5	
MISSISSIPPI																																
JACKSON	94	1005.1	1017.2	17.9	5.3	11.6	1.7	27.2	1	-3.9	8	0	6	7.2	79	157	40	84	12	5	0	0	0.4	21	12.1	N	9	7	4	17	7.1	44

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure		Temperature											Average relative humidity	Precipitation							Wind					No of days (sunrise to sunset)			Sky cover, tenths (sunrise to sunset)	Possible sunshine
												No of days							No of days		Snow, Ice pellets				Fastest mile (1.6 kilometers)							
		Station Ø	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min. 0 C or lower	Average dew point		Total	Departure from normal	Greatest in 24 hours	25 mm. or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10		
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m s		m s							%
MISSISSIPPI																																
MERIDIAN	88	1006.4	1017.7	17.7	4.2	10.9	1.1	24.4	16	-5.6	8	0	8	6.1	78	160	37	96	10	5	0	0	0.5	21	9.4	26	18	7	4	17	7.0	
MISSOURI																																
COLUMBIA REGIONAL	270	984.4	1018.0	1.8	-5.3	-1.7	-2.6	15.6	21	-21.1	9	0	26	-5.6	76	75	31	24	10	1	409	305	0.9	31	12.1	W	25	5	3	20	7.7	33
KANSAS CITY	309	980.0	1018.1	1.3	-5.9	-2.3	-2.9	12.2	28	-18.9	9	0	27	-6.1	76	40	9	14	11	0	117	51	1.6	34	12.5	NW	25	6	4	18	7.2	39
ST JOSEPH	247			2.1	-5.6	-1.7	-1.4	10.6	28	-17.8	9	0	27	-7.2	69	34	8		8				2.2	33	11.6	31	25	7	3	18	7.0	
ST LOUIS	163	996.6	1017.8	3.8	-3.9	0.0	-1.7	19.4	21	-17.8	9	0	25	-2.8	84	91	39	41	13	1	307	203	1.3	29	14.8	W	25	6	3	19	7.4	33
SPRINGFIELD	386	970.9	1017.4	6.4	-3.9	1.3	-1.5	17.2	21	-16.1	9	0	22	-3.9	71	100	43	51	11	2	330	330	0.4	32	12.1	N	23+	5	5	18	7.5	48
MONTANA																																
BILLINGS	1087	890.3	1019.4	-2.6	-12.9	-7.7	-5.2	7.8	24	-24.4	5	0	28	-14.4	60	19	3	8	8	0	173	330	3.1	25	15.2	NW	27+	8	6	14	6.3	59
GLASGOW	696	933.6	1019.9	-5.1	-16.5	-10.8	-1.4	9.4	23	-29.4	8+	0	28	-16.1	66	6	-2	4	8	0	89	76	1.5	32	13.0	30	25+	12	2	14	6.0	
GREAT FALLS	1116	887.2	1021.5	-4.4	-16.7	-10.5	-7.5	8.3	28	-31.1	4	0	28	-14.4	73	18	-1	5	11	0	183	229	3.7	24	15.2	SW	24+	6	6	16	6.9	52
HAVRE	788	923.5	1020.2	-4.7	-18.4	-11.6	-3.6	10.0	28	-32.8	5	0	27	-16.1	67	8	-2	2	8	0	142	76	3.0	26	14.3	SW	26	7	5	16	6.8	44
HELENA	1167	880.1	1022.0	-4.4	-15.9	-10.2	-6.5	5.0	27+	-31.1	6	0	28	-16.1	62	18	9	10	11	0	272	381	2.1	28	17.9	W	20	6	3	19	7.2	43
KALISPELL	904	911.3	1019.6	-2.0	-12.2	-7.1	-3.2	6.1	12	-30.6	9	0	26	-11.7	67	39	14	9	14	0	538	457	0.3	6	16.5	2	4	4	3	21	7.9	
MILES CITY	801	921.8	1019.2	-3.1	-14.3	-8.7	-2.9	10.0	24	-25.6	9+	0	28	-12.8	73	8	-5		6	0	84		2.6	30								
MISSOULA	972	904.2	1020.2	-0.3	-10.3	-5.3	-2.7	6.1	27+	-24.4	9+	0	27	-8.3	78	45	26	26	12	0	51.	508	0.8	12	15.2	W	11+	2	6	20	8.2	36
NEBRASKA																																
GRAND ISLAND	561	950.6	1019.6	-1.6	-10.5	-6.1	-3.7	12.2	28	-26.7	9	0	28	-10.0	76	12	-8	4	8	0	188	127	2.3	34	11.6	36	5	5	10	13	6.9	
LINCOLN	360	974.9	1019.6	-2.1	-11.2	-6.6	-4.3	6.1	28	-31.1	9	0	28	-9.4	80	32	9	20	6	0	277	229	2.2	34	14.3	NW	25	9	4	15	6.5	43
NORFOLK	471			-2.3	-11.8	-7.1	-2.6	6.7	28+	-30.6	9	0	28			10	-10	4	5		157	178						7	8	13	6.4	
NORTH PLATTE	846	917.4	1019.1	2.8	-12.4	-4.8	-2.6	15.0	24	-25.6	9	0	28	-11.1	69	4	-9	3	5	0	66	76	1.8	33	16.1	NW	27	8	5	15	6.4	53
OMAHA	298	982.1	1019.0	-0.7	-10.1	-5.3	-3.1	6.1	27	-28.3	9	0	28	-8.9	74	27	2	13	8	0	302	229	2.4	35	17.4	NW	25	10	2	16	6.5	42
SCOTTSBLUFF	1206	877.4	1018.1	4.2	-11.7	-3.7	-2.3	16.1	12	-27.2	9+	0	28	-10.6	65	12	3	7	4	0	147	76	2.5	32	15.6	32	27+	10	4	14	5.8	
VALENTINE	789			-0.6	-13.8	-7.2	-3.1	10.0	24	-33.3	9	0	28			4	-9	4	2		145	127			17.9	NW	27+	11	4	13	6.0	61
NEVADA																																
ELKO	1539	844.2	1019.1	3.0	-6.1	-1.6	0.0	12.8	28	-17.8	5	0	24	-6.7	69	27	7	8	14	0	150	76	1.3	23	15.6	27	19	6	2	20	7.5	
ELY	1906	807.3	1018.3	5.3	-9.3	-2.0	0.3	16.7	28	-22.2	5	0	28	-7.8	69	19	4	7	8	0	224	76	1.4	21	13.4	SE	2+	5	7	16	7.0	57
LAS VEGAS	659	940.4	1018.1	16.3	2.3	9.3	-0.2	23.9	28	-2.8	23	0	6	-7.8	32	1	-6	1	2	1	T	0	1.5	28	20.6	NW	21	13	9	6	4.6	81
RENO	1342	865.9	1018.3	7.7	-5.3	1.2	-1.7	20.0	28	-16.1	15	0	27	-5.0	67	44	22	15	7	0	483	152	1.1	21	29.5	SW	12	4	10	14	6.8	56
WINNEMUCCA	1311	868.6	1018.3	7.5	-4.6	1.4	0.3	17.8	28	-16.7	15	0	21	-6.1	59	27	1	4	13	0	183	51	1.3	20	14.8	NW	19	3	5	20	7.8	43
NEW HAMPSHIRE																																
CONCORD	104	1002.7	1016.0	0.6	-12.3	-5.8	-0.6	11.1	22	-31.7	10	0	25	-10.0	71	60	-2	27	11	0	434	533	1.7	29	15.6	W	3	5	13	10	6.3	51
MT WASHINGTON OBS	1909			-11.5	-19.3	-15.4	-0.4	5.0	25	-33.3	14	0	28			227	61	42	23	0	1293	533			55.4Y	W	26	2	6	20	8.3	26
NEW JERSEY																																
ATLANTIC CITY	20	1015.6	1017.9	7.2	-2.2	2.5	1.4	15.6	24	-11.1	10	0	18	-1.7	76	78	-7	23	13	0	41	25	2.1	28	14.8	23	25	5	9	14	6.9	42
ATLANTIC CITY U	3			5.7	-1.3	2.2	0.3	13.3	24	-8.9	10	0	17			78	-3	22	13						17.4	WSW	25					
NEWARK	2	1016.3	1017.3	5.2	-1.8	1.7	1.4	14.4	22	-10.0	10	0	17	-5.0	65	65	-10	24	13	1	323	229	2.0	29	13.9	21	25	6	8	14	6.7	
TRENTON U	17			5.5	-1.6	2.0	1.2	13.9	22	-8.9	10	0	16			76	8	24	9		231	102			15.2	SW	26	6	10	12	6.3	49
NEW MEXICO																																
ALBUQUERQUE	1619	836.4	1016.0	10.7	-4.0	3.3	-1.1	18.9	28+	-15.0	23	0	26	-5.6	58	25	15	10	8	0	170	76	0.8	33	25.0	E	22	10	7	11	5.5	68
CLAYTON	1515			8.3	-6.2	1.1	-1.2	21.1	13	-17.8	6	0	26			4	-5	4	4		84	51						5	9	14	6.6	
ROSWELL	1112	888.6	1014.8	13.6	-2.2	5.7	-0.3	23.9	28	-10.6	23	0	21	-2.2	65	27	18	9	5	0	94	76	0.8	28	14.8	W	21+	12	5	11	5.2	65
NEW YORK																																
ALBANY	84	1006.4	1017.4	1.1	-9.1	-3.9	0.8	11.1	22	-27.2	10	0	22	-8.9	70	91	37	38	14	0	538	305	1.8	27	13.9	W	25	2	8	18	7.7	44
BINGHAMTON	485	955.6	1016.5	-0.9	-7.4	-4.2	0.9	10.0	22	-20.0	10	0	25	-7.8	77	101	44	40	18	0	411	178	2.1	25	16.1	W	26	3	3	22	8.4	30
BUFFALO	215	989.5	1016.1	1.6	-4.8	-1.6	2.6	16.1	24	-15.0	10	0	25	-5.0	82	74	10	19	21	0	414	178	3.1	24	21.0	SW	26	3	2	23	8.7	27
NEW YORK U	40	1013.2	1016.5	5.4	-1.2	2.1	1.3	14.4	22	-8.9	10	0	16	-4.4	65	85	10	31	12	0	269	203	2.1	35	10.3	NW	13					46
NEW YORK KENNEDY	4	1016.6	1017.4	5.0	-0.7	2.2	2.1	12.2	23	-8.9	10	0	15	-4.4	64	91	13	38	12	1	224	152	2.4	30	13.4	23	25	9	6	13	6.3	
NEW YORK LA GUARDIA	3	1016.3	1017.4	4.7	-0.9	1.9	1.3	12.8	22	-8.9	10	0	16	-5.6	60	81	3	43	12	0	231	152	1.9	29	17.9	SW	25	7	6	15	6.6	
ROCHESTER	167	995.3	1016.3	0.9	-4.9	-2.0	2.0	13.9	22	-15.6	10	0	24	-6.1	76	72	10	14	22	0	589	279	2.8	25	21.9	SW	26	3	2	23	8.5	21
SYRACUSE	125	1001.0	1016.4	1.3	-5.7	-2.2	1.9	13.3	22	-19.4	12	0	21	-5.6	79	77	7	30	17	1	643	356	2.1	25	19.2	SW	26	2	6	20	8.2	39
NORTH CAROLINA																																
ASHEVILLE	652	940.4	1017.9	12.2	-0.5	5.8	1.7	18.9	1	-10.0	8	0	18	1.1	78	116	24	32	12	1	109	25	0.3	28	12.5	18	24	5	5	18	7.0	53

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure: Station	Pressure: Sea level	Temperature: Average maximum	Temperature: Average minimum	Temperature: Average	Temperature: Departure from normal	Temperature: Highest	Temperature: Date	Temperature: Lowest	Temperature: Date	No. of days: Max 32.2 °C or above	No. of days: Min. 0 C or lower	Average dew point	Average relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	No. of days: 25 mm or more	No. of days: With thunderstorms	Snow, Ice pellets: Total	Snow, Ice pellets: Maximum depth on ground	Wind: Resultant speed	Wind: Resultant direction	Fastest mile (1.6 kilometers): Speed	Fastest mile: Direction	Fastest mile: Date	No. of days (sunrise to sunset): Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m s		m s							%
NORTH CAROLINA																																
CAPE HATTERAS R	2	1018.3	1018.6	15.2	6.4	10.8	3.2	23.9	24+	-2.8	15	0	5	6.7	77	75	-30	20	10	2	0	0	1.1	31	11.6	25	25	5	3	20	7.6	38
CHARLOTTE	224	990.5	1018.3	12.6	1.9	7.2	0.6	19.4	12	-6.1	10	0	13	1.1	70	89	-8	35	12	1	25	T	0.3	24	12.1	SW	24	5	4	19	7.6	52
GREENSBORO	273	986.1	1018.2	12.2	1.3	6.7	1.9	21.1	23	-9.4	10	0	14	2.2	76	80	-6	35	12	1	51	51	0.6	22	12.1	NW	12	6	3	19	7.3	46
RALEIGH	134	1002.4	1018.5	12.4	0.6	6.5	0.8	25.0	23	-7.8	10+	0	16	0.6	70	72	-12	31	10	0	T	0	0.6	25	10.7	31	12	6	2	20	7.3	47
WILMINGTON	9	1017.3	1018.7	16.8	5.4	11.2	2.2	26.7	23	-1.1	8	0	4	5.6	72	129	43	31	12	2	T	0	0.2	25	14.3	S	24	7	2	19	7.3	60
NORTH DAKOTA																																
BISMARCK	502	956.3	1019.2	-5.1	-16.6	-10.8	-0.6	7.8	24	-28.3	9	0	28	-15.6	65	12	1	7	10	0	152	76	2.0	31	15.2	NW	24+	4	12	12	6.6	58
FARGO	273	984.8	1019.6	-7.5	-16.9	-12.2	-0.3	1.7	24	-28.9	8	0	28	-15.0	79	7	-4	2	11	0	150	178	1.0	29	17.4	NW	24	6	7	15	6.8	41
WILLISTON	579	947.5	1019.5	-5.2	-16.7	-10.9	-1.1	7.8	23	-28.9	8	0	28	-15.0	73	3	-10	2	4	0	33	25	2.0	30	17.0	NW	21	7	6	15	6.3	74
OHIO																																
AKRON	368	970.9	1016.9	3.5	-4.4	-0.4	1.9	16.1	22	-21.1	10	0	23	-5.0	75	91	36	42	21	0	267	127	1.8	24	14.3	24	25	2	6	20	8.2	
CINCINNATI ABBE OB	232			7.4	-0.8	3.3	2.0	17.8	23+	-13.9	10	0	16			80	5	55	15						11.6	W	25					38
CLEVELAND	237	986.8	1016.9	2.6	-4.4	-0.9	1.4	16.1	22	-22.2	10	0	22	-5.6	74	81	26	29	19	2	251	178	2.2	25	17.9	SW	25	1	6	21	8.7	30
COLUMBUS	247	986.5	1017.5	4.6	-3.1	0.8	1.7	18.3	22	-17.8	10	0	22	-4.4	71	88	29	55	14	3	94	51	1.6	24	16.1	SW	25	1	8	19	8.2	35
DAYTON	303	980.0	1017.0	5.0	-2.9	1.1	1.9	16.1	24+	-19.4	10	0	21	-4.4	71	100	43	65	17	2	163	51	1.4	25	17.0	W	25	3	3	22	8.4	42
MANSFIELD	395			2.3	-4.9	-1.3	0.1	15.6	22	-21.7	10	0	23	-4.4	82	95	44	50	14	1	315	152	2.4	23	13.9	24	25	2	6	20	8.2	
TOLEDO	204	990.9	1016.8	1.4	-5.6	-2.1	0.7	12.2	22	-24.4	10	0	25	-6.7	72	65	21	24	13	1	140	51	1.7	26	15.2	SW	26	2	7	19	8.0	41
YOUNGSTOWN	359	972.6	1016.8	1.8	-4.9	-1.6	1.4	15.0	22	-22.2	10	0	22	-6.1	73	79	18	32	20	1	259	152	1.7	24	14.3	27	25	1	3	24	9.0	
OKLAHOMA																																
OKLAHOMA CITY	392	970.2	1017.9	7.7	-2.7	2.5	-2.7	20.0	13	-11.1	7	0	19	-2.8	72	48	15	16	7	2	23	25	2.5	35	17.0	NE	22	10	6	12	6.0	56
TULSA	198	993.2	1018.1	8.0	-2.6	2.7	-2.4	20.0	13	-11.7	9	0	19	-2.2	75	87	44	40	8	1	76	76	1.3	35	14.8	N	8	6	8	14	6.5	42
OREGON																																
ASTORIA	2	1014.2	1014.9	9.6	2.7	6.2	-0.3	17.8	25	-2.2	21	0	5	2.8	81	204	5	40	24	0	5	0	1.5	13	15.6	18	12	1	4	23	8.8	
BURNS J	1265			4.4	-6.4	-1.0	-0.4	10.6	28	-16.1	5	0	26			45	15	13	17		330	178			20.1Y	SW	19+	3	7	18	7.9	
EUGENE	109	1002.7	1016.5	10.5	2.2	6.4	0.0	18.3	23	-4.4	21		7	5.0	91	172	54	36	21	0	T	0	1.7	17	12.1	29	15	2	3	23	8.8	
MEACHAM	1234			1.3	-5.8	-2.2	-1.6	10.0	28	-12.8	21	0	27			132	12	19	20		859	711						4	2	22	8.2	
MEDFORD	396	969.5	1018.0	10.7	0.2	5.4	0.3	17.8	24	-6.1	21	0	15	1.1	78	67	12	26	18	0	46	25	0.4	26	10.3	14	6	3	4	21	8.1	
PENDLETON	452	962.8	1017.5	7.8	-0.1	3.9	0.1	17.8	28	-5.6	9+	0	14	-1.7	71	33	6	9	17	0	64	51	1.6	26	19.7	26	19	2	7	19	8.2	
PORTLAND	6	1014.9	1016.2	8.7	1.5	5.1	-0.9	17.8	28	-2.8	21+	0	10	1.1	78	121	18	24	23	0	T	T	2.8	15	14.8	E	8+	1	2	25	9.1	31
SALEM	61	1008.5	1016.1	9.8	1.2	5.5	-0.6	17.2	28	-5.6	21	0	13	2.8	82	119	-3	30	22	0	T	0	2.2	19	13.0	18	12	1	5	22	8.7	
SEXTON SUMMIT R	1169	881.5	1016.5	4.1	-1.2	1.4	-1.5	13.9	23	-7.2	21	0	19			183	81	38	22		1115	914			17.9	26	19	2	4	22	8.5	
PACIFIC AREA																																
GUAM TAGUAC R	111			29.2	21.3	25.3	0.1	30.0	28+	16.7	17	0	0			29	-79	7	15		0	0			11.2	NE	1					76
JOHNSTON	2	1014.6	1014.9	26.5	22.4	24.5	-0.2	27.2	22+	19.4	8	0	0	19.4	74	28	-22	11	11	0	0	0	7.3	7	15.2	E	28+	15	7	6	4.7	71
KOROR R	29	1006.4		31.0	23.9	27.4	0.4	32.2	11	22.8	28+	1	0			72	-117	25	16	0	0	0	3.6	6	11.2	SE	26	0	5	23	8.6	72
KWAJALEIN	2	1009.5		30.6	25.4	28.0	0.6	31.7	28	23.9	22+	0	0			6	-54	2	8	0	0	0	6.7	7	9.8	6	12	2	7	19	8.1	
MAJURO	3	1009.5		29.3	25.1	27.2	-0.1	30.6	22	23.3	12	0	0			82	-96	46	12		0	0	6.3	7	13.0	E	24+	1	8	19	7.9	70
PAGO PAGO	4	1010.8	1011.2	30.2	23.8	27.0	0.1	31.1	16+	21.7	8	0	0	23.3	82	251	-109	93	24	3	0	0	2.5	7	13.9	NE	21	1	7	20	7.9	60
PONAPE R	37			31.0	24.9	27.9	0.9	32.2	5	22.8	18	1	0			108	-182	49	17	0	0	0			8.5	NE	7	0	4	24	9.1	70
TRUK MOEN ISLAND	2	1009.5		29.9	25.3	27.6	0.3	30.6	26+	23.3	17	0	0			98	-65	33	13	0	0	0	5.0	6	11.6	NE	4	0	3	25	9.5	60
WAKE	3	1014.6	1014.9	27.4	20.9	24.2	-0.8	29.4	23	18.9	4+	0	0	19.4	77	54	23	32	13	0	0	0	4.1	8	15.6	NE	8	10	15	3	4.1	78
YAP R	17	1008.1		30.4	23.8	27.1	0.2	31.7	25	22.2	19	0	0			30	-107	12	15	1	0	0	4.0	8	10.3	NE	4	2	15	11	7.0	76
PENNSYLVANIA																																
ALLENTOWN	118	1003.4	1017.7	3.7	-3.7	0.0	1.4	13.9	22	-12.8	10	0	21	-6.1	67	91	20	32	11	1	244	152	1.9	28	13.0	27	26	5	7	16	6.9	
ERIE	223	989.2	1016.9	1.4	-5.4	-2.0	1.8	16.7	22	-17.8	10	0	26	-5.6	80	84	30	39	20	0	325	203	2.5	23	13.9	25	26	2	4	22	8.6	
HARRISBURG	104	1005.1	1018.3	3.9	-3.6	0.2	0.1	15.6	24	-12.8	10	0	21			79	17	24	12	2	335	152	1.4	28	15.2	SW	25	5	8	15	7.0	48
PHILADELPHIA	2	1016.9	1018.0	6.4	-2.2	2.1	1.1	17.2	24	-10.6	10	0	19	-3.9	67	74	7	20	10	0	168	76	1.8	29	17.4	W	25	6	8	14	6.6	52
PITTSBURGH	347	971.9	1017.1	3.7	-3.6	0.1	1.6	17.8	22	-19.4	10	0	23	-5.6	67	118	58	58	19	1	353	152	1.7	26	13.4	27	26	1	8	19	8.3	23
SCRANTON	284	981.7	1017.0	3.5	-3.5	0.1	2.7	13.3	24+	-14.4	10	0	20	-6.7	63	83	33	40	15	0	366	178	1.5	26	16.1	SW	25	4	8	15	7.6	37
WILLIAMSPORT	160	998.0	1017.6	3.4	-4.3	-0.4	1.4	13.9	24	-19.4	10	0	21	-5.0	74	110	45	46	15	2	376	229	1.5	28	13.4	26	26+	4	6	18	7.8	
RHODE ISLAND																																
BLOCK ISLAND	34			3.4	-2.2	0.6	1.0	10.0	25	-10.6	14+	0	16			108	24	4	10		262	127						10		18	5.7	
PROVIDENCE	16	1014.2	1016.7	3.3	-5.1	-0.9	0.6	12.8	22	-17.8	10	0	23	-7.2	65	84	-4	31	11	0	462	279	2.2	30	17.4	24	25	6	11	11	6.3	55
SOUTH CAROLINA																																
CHARLESTON	12	1016.6	1018.7	18.2	7.1	12.6	2.3	26.1	23	-1.7	8	0	1	7.2	73	90	7	19	12	3	0	0	0.7	23	16.5	SW	16	5	7	16	7.2	45

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure: Station	Pressure: Sea level	Temperature: Average maximum	Temperature: Average minimum	Temperature: Average	Temperature: Departure from normal	Temperature: Highest	Temperature: Date	Temperature: Lowest	Temperature: Date	No. of days: Max 32.2 °C or above	No. of days: Min 0 °C or lower	Average dew point	Average relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	No. of days: 25 mm or more	No. of days: With thunderstorms	Snow, Ice pellets: Total	Snow, Ice pellets: Maximum depth on ground	Wind: Resultant speed	Wind: Resultant direction	Fastest mile (1.6 kilometers): Speed	Fastest mile: Direction	Fastest mile: Date	No. of days (sunrise to sunset): Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
SOUTH CAROLINA																																
CHARLESTON J	3			16.7	8.6	12.7	1.8	23.9	23	0.6	8	0	0			57	-22	16	6		0	0			16.5	N	3					
COLUMBIA	65	1009.8	1018.1	17.6	4.6	11.1	2.4	26.7	23	-3.9	8	0	5	6.7	79	164	70	63	12	4	T	T	.3	28	15.6	31	18	7	5	16	[illegible]	[illegible]
GRNVLLE-SPRTNBRG	292	983.1	1018.1	13.9	2.6	8.2	1.3	21.1	12	-7.2	8	0	9	2.8	74	147	34	34	14	2	33	T	.4	30	11.6	SW	6	6	5	17	7.3	46
SOUTH DAKOTA																																
ABERDEEN	395	969.9	1019.3	-4.2	-15.1	-9.6	-0.2	6.1	24	-31.1	9	0	28	-13.3	72	7	-9	[illegible]	10	0	119	102	1.4	32	15.6	31	24	8	4	16	6.5	
HURON	390	970.2	1019.3	-4.1	-14.1	-9.1	-1.2	3.3	24	-28.3	9	0	25	-13.3	69	5	-14	3	4	0	150	178	1.3	29	15.2	NW	25+	7	7	14	6.8	49
RAPID CITY	964	903.5	1019.2	-2.1	-13.9	-8.0	-4.6	11.7	24	-28.9	9	0	28	-13.3	67	9	-6	5	8	0	155	102	3.6	34	22.4	NW	21	8	9	11	6.0	67
SIOUX FALLS	432	965.5	1019.4	-3.8	-13.4	-8.6	-1.6	3.3	27+	-28.3	9	0	28	-12.8	71	6	-21	3	4	0	9	152	1.7	32	15.6	33	25	6	7	15	6.9	
TENNESSEE																																
BRISTOL	459	962.1	1017.2	11.8	0.2	6.0	2.3	25.0	23	-10.0	10	0	16	1.7	77	80	-15	22	14	1	8	T	1.0	26	11.6	24	25	4	6	18	7.6	
CHATTANOOGA	203	992.6	1017.8	12.8	0.6	6.7	0.6	21.7	17	-9.4	10	0	15	1.1	72	161	29	31	15	5	T	T	1.1	24	13.4	SW	23	5	6	17	7.3	39
KNOXVILLE	299	982.1	1017.6	12.7	2.2	7.5	1.5	22.2	23	-7.8	10	0	11	2.8	75	119	-1	22	14	4	T	T	1.4	20	10.3	36	25+	4	7	17	7.5	42
MEMPHIS	79	1007.5	1018.0	13.1	2.7	7.9	1.3	22.2	21	-6.1	7	0	9	1.7	69	140	20	43	13	4	13	T	0.2	24	11.2	16	22+	6	5	17	7.4	39
NASHVILLE	180	995.3	1017.3	12.2	1.7	7.0	2.0	21.1	23	-8.9	1	0	14	2.2	75	133	20	34	11	3	T	T	1.0	22	12.5	S	12	4	5	17	7.5	37
OAK RIDGE R	276			12.0	0.2	6.1	1.4	21.1	17	-8.9	8	0	17			150	17	29	15		T	T			13.9Y		24	5	5	15	7.6	
TEXAS																																
ABILENE	544	952.6	1016.5	14.1	0.4	7.3	-1.6	26.1	14	-6.1	9+	0	15	1.1	72	47	23	5	8	2	41	51	1.1	29	15.2	NW	17	10	9	9	5.3	67
AMARILLO	1098	889.3	1015.2	8.2	-4.6	1.8	-2.4	22.8	13	-13.9	9+	0	23	-4.4	70	34	20	12	10	0	24	152	1.2	28	17.0	1	22	8	5	15	6.4	58
AUSTIN	182	994.6	1016.8	17.7	4.7	11.2	-0.6	26.1	28+	-4.4	7	0	6	4.4	68	58	-20	32	5	1	T	T	1.0	35	14.3	NW	22	11	5	12	5.6	64
BROWNSVILLE	6	1015.2	1015.7	[illegible]	11.8	17.6	0.3	29.4	22+	1.1	24	0	0	12.2	74	[illegible]	-35	2	3	0	0	0	0.8	12	16.5	NW	23	6	6	16	6.8	50
CORPUS CHRISTI	13	1014.6	1016.2	22.2	8.9	15.6	0.3	30.6	22	0.0	24	0	1	10.6	75	11	-39	4	4	0	0	0	1.6	6	16.1	NW	22	5	8	15	6.6	47
DALLAS - FORT WORTH	168	995.6	1017.2	13.9	2.3	8.1	-1.2	23.9	14	-6.7	7	0	8	1.7	69	94	35	52	8	3	94	51	1.3	31	17.4	28	4	9	9	10	5.4	
DEL RIO	313	979.7	1015.9	19.9	5.8	12.9	-0.3	28.3	28	-1.1	7	0	2	3.3	60	49	23	38	4	1	0	0	1.0	4	14.3	30	23	11	8	9	5.1	
EL PASO	1194	881.5	1014.6	17.2	1.6	9.4	0.3	25.0	28	-5.0	24+	0	17	-3.9	43	15	4	[illegible]	3	0	5	T	1.6	27	13.9	32	21+	14	9	5	4.0	81
GALVESTON	2			17.8	11.1	14.5	1.1	22.8	2+	-0.6	7	0	1			45	-22	39	5		0	0			20.1	NW	23					55
HOUSTON INTERCON	29	1013.2	1017.0	19.9	6.1	13.0	0.1	27.2	28+	-3.9	7	0	5	8.3	77	67	-23	35	6	1	0	0	.8	2	13.0	31	23	5	7	16	6.9	47
LUBBOCK	992	902.5	1015.5	12.3	-2.3	5.0	-0.9	25.6	13	-11.1	23+	0	21	-2.8	66	39	26	16	8	2	57	51	.9	30	14.3	2	22	10	7	11	5.5	59
MIDLAND	869	915.7	1014.9	16.4	1.3	8.9	0.1	24.4	17+	-4.4	9	0	12	-0.6	59	18	3	11	6	0	41	T	1.2	29	16.5	31	17	12	8	8	4.7	
PORT ARTHUR	5	1016.3		19.2	6.6	12.9	0.1	25.0	28	-3.9	7		5	9.4	81	41	-67	[illegible]	11	1	[illegible]	0	0.4	10	13.0	NW	23	5	7	16	7.1	47
SAN ANGELO	580	949.2	1016.8	16.0	1.7	8.9	-1.3	24.4	25+	-6.1	7	0	8	1.1	66	33	12	19	4	1	T	T	0.9	27	12.5	22	20	12	7	9	4.9	
SAN ANTONIO	240	988.2	1016.6	19.0	4.9	11.9	-0.6	27.8	21	-3.9	7	0	2	4.4	64	34	31	37	4	2	0	0	1.1	1	15.2	N	6	8	8	12	5.8	59
VICTORIA	32	1012.5	1016.6	21.2	7.8	14.6	0.8	28.3	28	-2.2	7	0	1	7.8	69	12	-46	7	6	0	0	0	1.2	2	20.1Y	N	22	5	8	15	6.9	
WACO	152	999.0	1017.2	14.7	1.9	8.3	-2.2	25.0	25	-6.7	7	0	11	2.8	73	75	14	44	7	0	20	25	1.1	30	13.0	34	22	8	5	15	6.2	
WICHITA FALLS	303	980.0	1017.6	12.1	-0.6	5.8	-1.9	26.1	13	-8.3	9	0	18	-0.6	70	43	14	22	9	1	48	25	1.6	33	14.8	1	22	12	6	11	5.4	
UTAH																																
MILFORD	1533	845.9		6.1	-8.1	-1.0	-0.7	17.8	28	-21.7	18	0	28			13	-5	8	7		142	102			15.6	SW	9	8	5	15	6.4	63
SALT LAKE CITY	1286	872.3	1018.9	5.1	-2.2	1.9	1.2	13.9	28	-14.4	22	0	18	-3.9	67	31	1		10	2	211	76	1.7	18	13.4	N	10	2	10	16	7.7	52
WENDOVER	1291	871.3	1019.3	5.3	-3.9	0.7	-0.5	11.1	28	-10.0	24	0	26	-6.7	61	11	3	8	6		[illegible]	25	0.9	34				9	4	15	6.6	
VERMONT																																
BURLINGTON	101	1003.4	1016.5	-1.9	-10.7	-6.3	1.2	7.2	22	-26.1	1	0	25	-10.0	73	51	8	15	15	0	559	330	1.1	20	12.1	S	8	2	4	22	8.2	41
VIRGINIA																																
LYNCHBURG	279	983.4		9.6	-1.0	4.3	0.9	18.9	24	-11.1	1	0	18			68	-3	13	12		112	102			12.5	N	25	7	5	16	6.9	45
NORFOLK	7	1017.3	1018.3	12.2	2.7	7.4	2.2	26.1	23	-4.4	8	0	10	2.8	76	106	22	25	14	1	T	0	0.7	31	13.0	24	25	6	2	20	7.4	
RICHMOND	50	1011.9	1018.4	11.0	-0.6	5.2	1.1	23.3	24	-10.6	1	0	18	-0.6	71	75	-1	[illegible]	13	0	64	51	0.7	25	13.4	SW	25	5	4	19	7.5	44
ROANOKE	350	974.9	1017.9	[illegible]	-0.7	4.7	1.3	22.2	23	-11.1	1	0	18	-2.8	62	77	-1	15	13	0	160	127	1.3	25	13.0	27	25	7	4	17	6.9	
WALLOPS ISLAND	3			9.9	0.6	4.8	1.8	16.7	11	-6.1	10+	0	14			106	16	55	14		46	25			19.2Y	SW	25					
WASHINGTON																																
OLYMPIA	59	1007.5	1014.7	8.4	-0.2	4.1	-0.9	14.4	28	-6.7	21+	0	15	0.0	77	142	-9	31	21	0	38	T	1.3	20	16.1	29	19	1	3	24	9.1	
QUILLAYUTE	55	1006.1	1013.6	7.8	1.4	4.6	-0.6	11.7	25+	-2.2	21+	0	8	1.7	64	308	-2	73	24	0	76	25	1.1	9	12.5	NW	19+	1	4	23	9.0	15
SEATTLE J	6			8.8	2.4	5.6	-0.8	14.4	23	-1.7	21+	0	5			125	25	31	23		13	T			17.0	S	12					
SEATTLE-TACOMA	122	998.6	1015.2	8.3	1.4	4.9	-0.8	14.4	23	-2.8	21	0	10	-0.6	69	147	41	45	19	1	T	T	1.6	14	14.3	S	10	0	6	22	8.9	36
SPOKANE	718	930.9	1017.2	0.1	-8.3	-4.1	-4.2	6.1	12	-18.9	8	0	27	-6.7	80	79	37	16	15	0	724	711	1.4	17	17.9	SW	20	4	2	22	8.0	34
STAMPEDE PASS R	1206	875.0		-1.4	-6.1	-3.8	-1.4	6.7	28	-12.2	8	0	28			233	-28	49	22		1840	3658						0	3	25	9.3	
WALLA WALLA J	239			6.4	-0.9	2.8	-1.7	17.8	12	-8.9	6	0	17			39	4	7	16		226	152			16.1	SW	19	1	5	22	8.5	25
YAKIMA	321	978.3	1018.0	5.6	-4.5	0.6	-1.5	14.4	24	-12.2	10	0	25	-4.4	72	29	10	6	13	0	244	203	1.7	29	14.8	23	12	5	4	19	7.6	

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation ground	Pressure: Station	Pressure: Sea level	Temperature: Average maximum	Temperature: Average minimum	Temperature: Average	Temperature: Departure from normal	Temperature: Highest	Temperature: Date	Temperature: Lowest	Temperature: Date	No of days: Max 32.2 °C or above	No of days: Min 0 C or lower	Average dew point	Average relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	No of days: 25 mm or more	No of days: With thunderstorms	Snow, Ice pellets: Total	Snow, Ice pellets: Maximum depth on ground	Wind: Resultant speed	Wind: Resultant direction	Fastest mile (1.6 kilometers): Speed	Fastest mile: Direction	Fastest mile: Date	No of days (sunrise to sunset): Clear 0-3	Partly cloudy 4-7	Cloudy 8-10	Sky cover tenths (sunrise to sunset)	Possible sunshine
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
WEST INDIES																																
SAN JUAN P.R.	4	1015.9	[illegible]	28.4	21.8	25.1	1.1	30.0	23+	19.4	[illegible]	0	0	17.8	66	[illegible]	-45	4	6	0	0	0	3.9	10	12.1	E	24	6	22	[illegible]	4.4	80
WEST VIRGINIA																																
BECKLEY	761	925.9	[illegible]	[illegible]	[illegible]	[illegible]	2.2	19.4	23	-15.0	1	0	21	-2.2	74	[illegible]	26	[illegible]	17	1	[illegible]	76	[illegible]	21	14.8	23	25	5	3	20	[illegible]	
CHARLESTON	[illegible]	982.7	[illegible]	[illegible]	[illegible]	3.3	0.8	23.9	[illegible]	-16.7	1	0	21	-2.9	68	[illegible]	[illegible]	[illegible]	15	2	[illegible]	51	[illegible]	26	11.2	25	25	3	5	20	8.3	
ELKINS	594	944.8		[illegible]	-5.3	[illegible]	1.3	20.0	24	-23.9	1	0	22			[illegible]	-2	[illegible]	16		[illegible]	102						1	6	21	8.4	
HUNTINGTON	[illegible]	985.5	[illegible]	[illegible]	[illegible]	4.2	1.9	22.8	23+	-13.9	1	0	15	-1.7	69	[illegible]	5	[illegible]	15	3	[illegible]	25	[illegible]	28	9.4	27	25	1	6	21	8.4	
PARKERSBURG	191			[illegible]	[illegible]	3.2	1.7	[illegible]	22	-14.4	1	[illegible]	19			[illegible]	25	[illegible]	16		[illegible]	25			11.6	W	26+					36
WISCONSIN																																
GREEN BAY	[illegible]	989.5	1016.3	[illegible]	[illegible]	[illegible]	0.2	[illegible]	[illegible]	-26.7	[illegible]	0	28	-11.1	74	[illegible]	[illegible]	[illegible]	11	1	[illegible]	279	[illegible]	29	18.8	NE	24	4	3	21	[illegible]	41
LA CROSSE	[illegible]	993.2	[illegible]	[illegible]	[illegible]	[illegible]	-0.7	4.4	21	[illegible]	[illegible]	0	28	-11.7	[illegible]	[illegible]	21		8	1	[illegible]		1.1	30								
MADISON	[illegible]	984.1	1016.9	[illegible]	[illegible]	[illegible]	0.6	6.1	21	-25.0	[illegible]	[illegible]	28	-9.4	[illegible]	[illegible]	15	[illegible]	13	1	[illegible]	229	1.3	31	15.2	W	25	5	5	16	7.4	39
MILWAUKEE	[illegible]	[illegible]	[illegible]	[illegible]	-8.1	[illegible]	0.6	4.4	22+	-22.8	[illegible]	0	28	-8.3	74	[illegible]	36	[illegible]	11	0	[illegible]	[illegible]	1.8	29	17.0	W	25	3	[illegible]	18	[illegible]	38
WYOMING																																
CASPER	[illegible]	834.1	[illegible]	[illegible]	[illegible]	-6.2	-3.3	[illegible]	[illegible]	-25.0	[illegible]		[illegible]	[illegible]	68	[illegible]	0	[illegible]	8	0	[illegible]	[illegible]	5.1	23	17.0	22	20	9	[illegible]	14	6.4	
CHEYENNE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-2.2	[illegible]	[illegible]	-22.2	5		26	-12.9	55	[illegible]	-7	[illegible]	5	0	[illegible]	51	4.4	30	19.2	NW	23	9		12	5.9	67
LANDER	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-1.4	[illegible]	24	-23.3	[illegible]	0	28	-12.2	62	[illegible]	-6	[illegible]	5	0	[illegible]	203	[illegible]	22	14.6	W	12	8	6	14	[illegible]	67
SHERIDAN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-5.5	6.7	24	-32.2	[illegible]	0	28	-13.3	68	[illegible]	-8	[illegible]	8	[illegible]	[illegible]	[illegible]	2.3	31	14.3	NW	24	6	[illegible]	[illegible]	6.6	56

HEATING DEGREE DAYS

(Base 65°F.)

FEBRUARY 1975

State and Station	Current season		Normals
	This month	Period July through this month	July through this month
ALABAMA			
BIRMINGHAM	412	2003	2319
HUNTSVILLE	537	2398	2664
MOBILE	185	1070	1423
MONTGOMERY	303	1575	1886
ALASKA			
ANCHORAGE	1454	7672	7849
ANNETTE	965	4934	4757
BARROW	2202	14335	13419
BARTER ISLAND	2344	15009	13288
BETHEL	1796	9847	9152
BETTLES	1997	12034	11829
BIG DELTA	1840	10496	10159
COLD BAY	1149	6517	6413
FAIRBANKS	1918	10744	10781
GULKANA	1909	10018	10338
HOMER	1293	7021	7112
JUNEAU	1129	6024	6280
KING SALMON	1710	8614	8071
KODIAK	1165	6327	5862
KOTZEBUE	1928	11237	10743
MC GRATH	2002	11082	10660
NOME	1760	10360	9639
ST. PAUL ISLAND	1389	7864	7091
SUMMIT	1715	10033	10119
TALKEETNA	1576	8568	8406
UNALAKLEET	1763	5781	9678
YAKUTAT	1134	6206	6458
ARIZONA			
FLAGSTAFF	1041	4980	4999
PHOENIX	301	1261	1307
TUCSON	393	1681	1428
WINSLOW	763	4025	3621
YUMA			
ARKANSAS			
FORT SMITH	699	2810	2716
LITTLE ROCK	566	2365	2724
CALIFORNIA			
BAKERSFIELD	294	1681	1757
BISHOP	654	3156	3213
BLUE CANYON	816	3349	3612
EUREKA U	469	3040	3020
FRESNO	419	2117	2064
LONG BEACH	180	879	1117
LOS ANGELES	258	921	1172
LOS ANGELES U	254	863	846
MT SHASTA R	853	3988	4017
OAKLAND	349	1688	1982
RED BLUFF	482	2236	2032
SACRAMENTO	435	2063	2104
SANDBERG R	672	2916	2886
SAN DIEGO	237	886	1013
SAN FRANCISCO	387	2110	2049
SAN FRANCISCO U	320	2005	2006
SANTA MARIA	402	1944	1960
STOCKTON	434	2249	2129
COLORADO			
ALAMOSA	1198	6813	6230
COLORADO SPRINGS	980	4637	4584
DENVER	957	4416	4290
GRAND JUNCTION	888	4524	4310
PUEBLO	876	4069	4038
CONNECTICUT			
BRIDGEPORT	907	3656	3874
HARTFORD	996	4474	4670
DELAWARE			
WILMINGTON	808	3440	3706
DIST.OF COLUMBIA			
WASHINGTON DULLES	837	3675	3798
WASHINGTON NATIONAL	677	2813	3257
FLORIDA			
APPALACHICOLA	150	826	1156
DAYTONA BEACH	69	447	760
FORT MYERS	13	131	409
JACKSONVILLE	153	916	1127
KEY WEST	0	7	59
LAKELAND U	44	312	586
MIAMI	1	49	189
ORLANDO	44	320	828
PENSACOLA	158	904	1330
TALLAHASSEE	217	1262	1342
TAMPA	64	325	619
WEST PALM BEACH	3	92	274
GEORGIA			
ATHENS	445	2118	2401
ATLANTA	493	2228	2481
AUGUSTA	415	2098	2101
COLUMBUS	343	1677	1960
MACON	338	1639	1870
ROME	498	3116	2692
SAVANNAH	232	1239	1633
IDAHO			
BOISE	782	4051	4263
LEWISTON	826	3698	4022
POCATELLO	1021	5134	5080
ILLINOIS			
CAIRO U	695	2981	3070
CHICAGO O HARE	1078	4595	4818
CHICAGO MIDWAY	1059	4478	4566
MOLINE	1114	4747	4847
PEORIA	1085	4590	4626
ROCKFORD	1166	5006	5115
SPRINGFIELD	992	4148	4257
INDIANA			
EVANSVILLE	742	3415	3613
FORT WAYNE	1035	4514	4615
INDIANAPOLIS	918	4141	4236
SOUTH BEND	1035	4294	4754
IOWA			
BURLINGTON	1106	4670	4674
DES MOINES	1185	4866	5069
DUBUQUE	1267	5407	5439
SIOUX CITY	1277	5281	5271
WATERLOO	1277	5491	5580
KANSAS			
CONCORDIA	1082	4233	4267
DODGE CITY	975	3831	3828
GOODLAND	997	4527	4469
TOPEKA	1008	4054	4038
WICHITA	1016	3754	3644
KENTUCKY			
COVINGTON	774	3801	3860
LEXINGTON	705	3434	3640
LOUISVILLE	688	3291	3588
LOUISIANA			
ALEXANDRIA	340	1524	1832
BATON ROUGE	250	1182	1429
LAKE CHARLES	242	1094	1272
NEW ORLEANS	210	1039	1248
SHREVEPORT	457	1829	1806
MAINE			
CARIBOU	1498	6910	6856
PORTLAND	1112	4984	5313
MARYLAND			
BALTIMORE	720	3158	3591
MASSACHUSETTS			
BLUE HILL OBS R	1016	4406	4525
BOSTON	918	3828	4050
WORCHESTER	1110	4888	4918
MICHIGAN			
ALPENA	1198	5594	5963
DETROIT	982	4208	4539
DETROIT METRO	1043	4707	4699
FLINT	1055	4779	5093
GRAND RAPIDS	1133	5160	4943
HOUGHTON LAKE	1234	5667	5958
LANSING	1085	4939	5026
MARQUETTE U	1165	5508	5803
MUSKEGON	1085	4778	4918
SAULT STE MARIE	1314	6331	6422
MINNESOTA			
DULUTH	1479	7061	6999
INTERNATIONAL FALLS	1629	7340	7737
MINNEAPOLIS	1379	5929	6088
ROCHESTER	1385	6036	6089
ST CLOUD	1483	6588	6584
MISSISSIPPI			
JACKSON	348	1635	1907
MERIDIAN	370	1686	1990
MISSOURI			
COLUMBIA REGIONAL	1006	4134	3906
KANSAS CITY	1036	4163	3979
ST JOSEPH	1005	4268	4204
ST LOUIS	919	3846	3683
SPRINGFIELD	851	3583	3531
MONTANA			
BILLINGS	1308	5283	5185
GLASGOW	1463	5929	6574
GREAT FALLS	1450	5382	5405
HAVRE	1506	5839	6385
HELENA	1429	5910	5860
KALISPELL	1277	5899	6108
MILES CITY	1355	5487	5814
MISSOULA	1184	5428	5717
NEBRASKA			
GRAND ISLAND	1221	5052	4825
LINCOLN	1250	4980	4727
NORFORK	1275	5217	5243
NORTH PLATTE	1160	5207	4966
OMAHA	1189	4847	4625
SCOTTSBLUFF	1105	4964	4887
VALENTINE	1284	5251	5330
NEVADA			
ELKO	994	5208	5312
ELY	1021	5310	5394
LAS VEGAS	446	2042	2141
RENO	858	4335	4237
WINNEMUCCA	844	4680	4675
NEW HAMPSHIRE			
CONCORD	1218	5571	5349
MT WASHINGTON OBS	1699	9428	9402
NEW JERSEY			
ATLANTIC CITY	790	3465	3666
ATLANTIC CITY U	805	3376	3331
NEWARK	832	3422	3736
TRENTON U	817	3397	3690
NEW MEXICO			
ALBUQUERQUE	748	3694	3357
CLAYTON	861	4016	3803
ROSWELL	630	2955	3005
NEW YORK			
ALBANY	1115	5115	5073
BINGHAMTON	1127	5218	5236
BUFFALO	1001	4512	4925
NEW YORK U	812	3348	3583
NEW YORK KENNEDY	809	3294	3737
NEW YORK LA GUARDIA	819	3376	3609
ROCHESTER	1017	4648	4829
SYRACUSE	1026	4707	4819
NORTH CAROLINA			
ASHEVILLE	624	2999	3252
CAPE HATTERAS R	378	1712	2038
CHARLOTTE	554	2582	2578
GREENSBORO	579	2740	3019
RALEIGH	589	2721	2784
WILMINGTON	362	1751	1975
NORTH DAKOTA			
BISMARCK	1467	6687	6686
FARGO	1535	6569	6894
WILLISTON	1470	6459	6754
OHIO			
AKRON	940	4228	4572
CINCINNATI ABBE OB	748	3439	3720
CLEVELAND	962	4275	4473
COLUMBUS	878	3944	4295
DAYTON U	868	3994	4243
MANSFIELD	983	4424	4309
TOLEDO	1021	4633	4717
YOUNGSTOWN	995	4534	4686
OKLAHOMA			
OKLAHOMA CITY	792	2946	2947
TULSA	780	2971	2948
OREGON			
ASTORIA	606	3181	3491
BURNS U	967	4924	5085
EUGENE	595	2624	3284
MEACHAM	1027	5122	5277
MEDFORD	642	3297	3516
PENDLETON	721	3288	3870
PORTLAND	660	2900	3370
SALEM	641	3040	3354
SEXTON SUMMIT R	846	4195	4148
PENNSYLVANIA			
ALLENTOWN	919	4097	4329
ERIE	1016	4612	4834
HARRISBURG	903	3899	3982
PHILADELPHIA	812	3309	3660
PITTSBURGH	916	4052	4418
PITTSBURGH U	860	3863	3962
SCRANTON	913	4198	4636
WILLIAMSPORT	940	4228	4454
RHODE ISLAND			
BLOCK ISLAND	887	3600	3880
PROVIDENCE	962	4072	4275
SOUTH CAROLINA			
CHARLESTON	294	1516	1772
CHARLESTON U	286	1352	1570
COLUMBIA	365	1826	2143
GRNVLLE-SPRTNBRG	505	2466	2540
SOUTH DAKOTA			
ABERDEEN	1401	5895	6425
HURON	1373	5778	6018
RAPID CITY	1318	5245	5211
SIOUX FALLS	1351	5733	5962
TENNESSEE			
BRISTOL	616	3081	3334
CHATTANOOGA	581	2808	2806
KNOXVILLE	542	2598	2774
MEMPHIS	521	2235	2617
NASHVILLE	567	2625	2951
OAK RIDGE	610	3086	3096
TEXAS			
ABILENE	553	2331	2141
AMARILLO	826	3458	3216
AUSTIN	356	1461	1470
BROWNSVILLE	90	516	561
CORPUS CHRISTI	167	775	810
DALLAS FT WORTH	508	1875	1959
DEL RIO	274	1318	1344
EL PASO	445	2438	2261
GALVESTON	201	786	1017
HOUSTON INTERCON	270	1107	1222
LUBBOCK	664	2932	2818
MIDLAND	468	2097	2174
PORT ARTHUR	276	1208	1283
SAN ANGELO	470	1976	1879
SAN ANTONIO	316	1419	1345
VICTORIA	206	898	1053
WACO	495	1881	1722
WICHITA FALLS	628	2433	2370
UTAH			
MILFORD	969	4841	4688
SALT LAKE CITY	819	4014	4397
WENDOVER	882	4376	4384
VERMONT			
BURLINGTON	1236	5395	5709
VIRGINIA			
LYNCHBURG	701	3223	3283
NORFORK	547	2315	2677
RICHMOND	654	3000	3080
ROANOKE	683	3198	3312
WALLOPS ISLAND	678	2998	3139
WASHINGTON			
OLYMPIA	711	3629	3812
QUILLAYUTE	684	3720	3937
SEATTLE	635	2957	3282
SEATTLE-TACOMA	671	3336	3568
SPOKANE	1122	5028	4944
STAMPEDE PASS R	1109	5814	6277
WALLA WALLA U	777	3343	3640
YAKIMA	889	4167	4492
WEST VIRGINIA			
BECKLEY	794	3992	4175
CHARLESTON	749	3605	3538
ELKINS	871	4558	4405
HUNTINGTON	704	3377	3556
PARKERSBURG U	759	3550	3684
WISCONSIN			
GREEN BAY	1297	5802	5905
LA CROSSE	1292	5472	5581
MADISON	1220	5291	5691
MILWAUKEE	1157	5024	5355
WYOMING			
CASPER	1230	5634	5297
CHEYENNE	1115	5253	5001
LANDER	1172	5715	5632
SHERIDAN	1370	5701	5469

COOLING DEGREE DAYS

(Base 65° F.)

FEBRUARY 1975

State and station	Current season		Normals January through this month
	This month	Period January through this month	
ALABAMA			
BIRMINGHAM	0	8	19
HUNTSVILLE	0	0	6
MOBILE	44	65	52
MONTGOMERY	5	12	30
ALASKA			
ANCHORAGE	0	0	
ANNETTE	0	0	0
BARROW	0	0	0
BARTER ISLAND	0	0	0
BETHEL	0	0	0
BETTLES	0	0	
BIG DELTA	0	0	0
COLD BAY	0	0	0
FAIRBANKS	0	0	0
GULKANA	0	0	0
HOMER	0	0	0
JUNEAU	0	0	0
KING SALMON	0	0	0
KODIAK	0	0	0
KOTZEBUE	0	0	0
MC GRATH	0	0	0
NOME	0	0	0
ST. PAUL ISLAND	0	0	0
SUMMIT	0	0	
TALKEETNA	0	0	0
UNALAKLEET	0	0	0
YAKUTAT	0	0	0
ARIZONA			
FLAGSTAFF	0	0	0
PHOENIX	0	0	14
TUCSON	0	0	11
WINSLOW	0	0	0
YUMA	3	3	46
ARKANSAS			
FORT SMITH	0	0	0
LITTLE ROCK	0	6	0
CALIFORNIA			
BAKERSFIELD	0	0	0
BISHOP	0	0	0
BLUE CANYON	0	0	0
EUREKA U	0	0	0
FRESNO	0	0	0
LONG BEACH	0	6	12
LOS ANGELES	0	13	12
LOS ANGELES U	0	21	24
MT SHASTA R	0	0	0
OAKLAND	0	0	0
RED BLUFF	0	0	0
SACRAMENTO	0	0	0
SANDBERG R	0	0	0
SAN DIEGO	0	0	10
SAN FRANCISCO	0	0	0
SAN FRANCISCO U	0	0	0
SANTA MARIA	0	0	
STOCKTON	0	0	0
COLORADO			
ALAMOSA	0	0	0
COLORADO SPRINGS	0	0	0
DENVER		0	0
GRAND JUNCTION	0	0	0
PUEBLO	0	0	0
CONNECTICUT			
BRIDGEPORT	0	0	0
HARTFORD	0	0	0
DELAWARE			
WILMINGTON	0	0	0
DIST.OF COLUMBIA			
WASHINGTON DULLES	0	0	0
WASHINGTON NATIONAL	0	1	0
FLORIDA			
APPALACHICOLA U	19	24	57
DAYTONA BEACH	95	165	96
FORT MYERS	177	358	147
JACKSONVILLE	47	73	53
KEY WEST	295	605	403
LAKELAND U	148	246	147
MIAMI	233	494	266
ORLANDO	[illegible]	276	138
PENSACOLA	51	73	64
TALLAHASSEE	13	29	61
TAMPA	115	208	147
WEST PALM BEACH	[illegible]	424	[illegible]
GEORGIA			
ATHENS		6	0
ATLANTA	0	6	0
AUGUSTA	3	5	14
COLUMBUS	1	6	22
MACON	5	8	24
ROME	0	0	0
SAVANNAH	33	53	33
HAWAII			
HILO	201	393	362
HONOLULU	224	459	430
KAHULUI	211	416	395
LIHUE	187	442	372
IDAHO			
BOISE	0	0	0
LEWISTON	0	0	0
POCATELLO	0	0	0
ILLINOIS			
CAIRO U	0	0	0
CHICAGO O HARE	0	0	0
CHICAGO MIDWAY	0	0	0
MOLINE	0	0	0
PEORIA	0	0	0
ROCKFORD	0	0	0
SPRINGFIELD	0	0	0
INDIANA			
EVANSVILLE	0	0	0
FORT WAYNE	0	0	0
INDIANAPOLIS	0	0	0
SOUTH BEND	0	0	0
IOWA			
BURLINGTON	0	0	0
DES MOINES	0	0	0
DUBUQUE	0	0	0
SIOUX CITY	0	0	0
WATERLOO	0	0	0
KANSAS			
CONCORDIA	0	0	0
DODGE CITY	0	0	0
GOODLAND	0	0	0
TOPEKA	0	0	0
WICHITA	0	0	0
KENTUCKY			
COVINGTON		0	
LEXINGTON		0	0
LOUISVILLE		0	0
LOUISIANA			
ALEXANDRIA	18	43	24
BATON ROUGE	36	66	41
LAKE CHARLES	22	54	50
NEW ORLEANS	45	79	63
SHREVEPORT	[illegible]	23	10
MAINE			
CARIBOU	0	0	0
PORTLAND	0	0	0
MARYLAND			
BALTIMORE	0	0	0
MASSACHUSETTS			
BLUE HILL OBS R	0	0	0
BOSTON	0	0	0
WORCHESTER	0	0	0
MICHIGAN			
ALPENA	0	0	0
DETROIT	0	0	0
DETROIT METRO	0	0	0
FLINT	0	0	0
GRAND RAPIDS	0	0	0
HOUGHTON LAKE	0	0	0
LANSING	0	0	0
MARQUETTE U	0	0	0
MUSKEGON	0	0	0
SAULT STE MARIE	0	0	0
MINNESOTA			
DULUTH	0	0	0
INTERNATIONAL FALLS	0	0	0
MINNEAPOLIS	0	0	0
ROCHESTER	0	0	0
ST CLOUD	0	0	0
MISSISSIPPI			
JACKSON	[illegible]	43	31
MERIDIAN	2	5	31
MISSOURI			
COLUMBIA REGIONAL	0	0	0
KANSAS CITY	0	0	0
ST JOSEPH	0	0	0
ST LOUIS	0	0	0
SPRINGFIELD	0	0	0
MONTANA			
BILLINGS	0	0	0
GLASGOW	0	0	0
GREAT FALLS	0	0	0
HAVRE	0	0	0
HELENA	0	0	0
KALISPELL	0	0	0
MILES CITY	0	0	0
MISSOULA	0	0	0
NEBRASKA			
GRAND ISLAND	0	0	0
LINCOLN	0	0	0
NORFOLK	0	0	0
NORTH PLATTE	0	0	0
OMAHA	0	0	0
SCOTTSBLUFF	0	0	0
VALENTINE	0	0	0
NEVADA			
ELKO	0	0	0
ELY	0	0	0
LAS VEGAS	0	0	6
RENO	0	0	0
WINNEMUCCA	0	0	0
NEW HAMPSHIRE			
CONCORD	0	0	0
MT WASHINGTON OBS	0	0	0
NEW JERSEY			
ATLANTIC CITY	0	0	0
ATLANTIC CITY U	0	0	0
NEWARK	0	0	0
TRENTON	0	0	0
NEW MEXICO			
ALBUQUERQUE	0	0	0
CLAYTON	0	0	0
ROSWELL	0	0	0
NEW YORK			
ALBANY	0	0	0
BINGHAMTON	0	0	0
BUFFALO	0	0	0
NEW YORK U	0	0	0
NEW YORK KENNEDY	0	0	0
NEW YORK LA GUARDIA	0	0	0
ROCHESTER	0	0	0
SYRACUSE	0	0	0
NORTH CAROLINA			
ASHEVILLE	0	0	0
CAPE HATTERAS R	[illegible]	8	0
CHARLOTTE	0	0	0
GREENSBORO	0	0	0
RALEIGH	0	0	0
WILMINGTON	5	6	14
NORTH DAKOTA			
BISMARCK	0	0	0
FARGO	0	0	0
WILLISTON	0	0	0
OHIO			
AKRON	0	0	0
CINCINNATI ABBE OB	0	0	0
CLEVELAND	0	0	0
COLUMBUS	0	0	
DAYTON U	0	0	0
MANSFIELD	0	0	0
TOLEDO	0	0	0
YOUNGSTOWN	0	0	0
OKLAHOMA			
OKLAHOMA CITY	0	0	0
TULSA	0	0	0
OREGON			
ASTORIA	0	0	0
BURNS U	0	0	0
EUGENE	0	0	0
MEACHAM	0	0	0
MEDFORD	0	0	0
PENDLETON	0	0	0
PORTLAND	0	0	
SALEM	0	0	0
SEXTON SUMMIT R	0	0	0
PACIFIC AREA			
GUAM TAGUAC R	357	766	725
JOHNSTON	319	[illegible]	588
KOROR R	467	965	[illegible]
KWAJALEIN	495	1021	961
MAJURO	455	939	944
PAGO PAGO	445	930	908
PONAPE R	491	1016	924
TRUK MOEN ISLAND	475	997	947
WAKE	303	657	708
YAP R	451	915	911
PENNSYLVANIA			
ALLENTOWN	0	0	0
ERIE	0	0	0
HARRISBURG	0	0	0
PHILADELPHIA	0	0	0
PITTSBURGH	0	0	
SCRANTON	0	0	
WILLIAMSPORT	0	0	0
RHODE ISLAND			
BLOCK ISLAND	0	0	
PROVIDENCE	0	0	
SOUTH CAROLINA			
CHARLESTON	13	21	25
CHARLESTON U	4	9	31
COLUMBIA	6	14	5
GRNVLLE-SPRTNBRG	0	0	0
SOUTH DAKOTA			
ABERDEEN	0	0	0
HURON	0	0	0
RAPID CITY	0	0	0
SIOUX FALLS	0	0	
TENNESSEE			
BRISTOL	0	0	
CHATTANOOGA	0	0	6
KNOXVILLE	0	0	6
MEMPHIS	0	6	0
NASHVILLE	0	3	0
OAK RIDGE	0	0	0
TEXAS			
ABILENE	0	0	0
AMARILLO	0	0	
AUSTIN	0	21	24
BROWNSVILLE	68	147	185
CORPUS CHRISTI	35	105	81
DALLAS FT WORTH	0	0	
DEL RIO	1	14	[illegible]
EL PASO	0	0	
GALVESTON	11	30	47
HOUSTON INTERCON	8	55	38
LUBBOCK	0	0	0
MIDLAND	0	0	
PORT ARTHUR	9	37	42
SAN ANGELO	0	3	
SAN ANTONIO	1	30	24
VICTORIA	19	80	44
WACO	0	2	[illegible]
WICHITA FALLS	0	0	
UTAH			
MILFORD	0	0	
SALT LAKE CITY	0	0	
WENDOVER	0	0	
VERMONT			
BURLINGTON	0	0	
VIRGINIA			
LYNCHBURG	0	0	0
NORFOLK	3	5	0
RICHMOND	0	0	0
ROANOKE	0	0	
WALLOPS ISLAND	0	0	0
WASHINGTON			
OLYMPIA	0	0	0
QUILLAYUTE	0	0	0
SEATTLE	0	0	0
SEATTLE-TACOMA	0	0	
SPOKANE	0	0	0
STAMPEDE PASS R	0	0	0
WALLA WALLA U	0	0	0
YAKIMA	0	0	0
WEST INDIES			
SAN JUAN P.R.	346	721	610
WEST VIRGINIA			
BECKLEY	0	0	
CHARLESTON	0	0	
ELKINS	0	0	
HUNTINGTON	0	0	0
PARKERSBURG U	0	0	0
WISCONSIN			
GREEN BAY	0	0	0
LA CROSSE	0	0	
MADISON		0	0
MILWAUKEE	0	0	0
WYOMING			
CASPER	0	0	0
CHEYENNE	0	0	0
LANDER	0	0	
SHERIDAN	0	0	

STORM SUMMARY

FEBRUARY 1975

STATE		TORNADOES					HAILSTORMS				WINDSTORMS				LIGHTNING				@HEAVY SNOWSTORMS AND BLIZZARDS				≠ ICE STORMS				ϕ ALL OTHER			
		NUMBER	DAYS	DEATHS	INJURIES	†DAMAGE	DEATHS	INJURIES	†DAMAGE PROPERTY	CROPS	DEATHS	INJURIES	†DAMAGE PROPERTY	CROPS	DEATHS	INJURIES	†DAMAGE PROPERTY	CROPS	DEATHS	INJURIES	†DAMAGE PROPERTY	CROPS	DEATHS	INJURIES	†DAMAGE PROPERTY	CROPS	DEATHS	INJURIES	†DAMAGE PROPERTY	CROPS
Alabama		6	2	1	52	7							4																6	
Alaska	*																													
Arizona													5																	
Arkansas		6	1	1	33	6							1			1													4	
California	<>																													
Colorado	*																													
Connecticut	*																													
Delaware	*																													
Florida		10	1		10	6			3	3			4																	
Georgia		3	2	2	52	7																								
Hawaii	*																													
Idaho																			2		5									
Illinois													5						1											
Indiana													1														5		5	[illegible]
Iowa																					4									
Kansas																					4									
Kentucky													1																6	
Louisiana		4	3		1	1																								
Maine																					4				1					
Maryland	*																													
Massachusetts																					3									
Michigan	*																													
Minnesota	*																													
Mississippi		1	5		5	5							5			1	3													
Missouri													[illegible]								4									
Montana	*																													
Nebraska																					5									
Nevada													5																	
New Hampshire													[illegible]								4				4					
New Jersey	*																													
New Mexico																					4									
New York		1	1		2	5						1	[illegible]								5								5	
North Carolina		1	1		1	1																		[illegible]	6					
North Dakota	*																													
Ohio																													4	
Oklahoma		6	1	3	10	6			6	5		50	7	5	1	1														
Oregon													5				1								1					
Pacific	*																													
Pennsylvania													3							[illegible]	[illegible]								5	
Puerto Rico	*																													
Rhode Island																					3									
South Carolina		1	1		5	5																			5	4				
South Dakota																					4									
Tennessee		1	1		2	1																							5	
Texas		2	1			1			[illegible]	[illegible]		12	6	[illegible]															[illegible]	[illegible]
Utah	*																													
Vermont																					5								5	
Virginia												1	4																	
Virgin Islands	*																													
Washington													5																	
West Virginia	*																													
Wisconsin																				[illegible]	5									
Wyoming	*																													

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

FEBRUARY 1975

Herbert J. Thompson and Raymond J. Haley
Office of Hydrology

There were several serious flood events during February. During the period of the 22d to 24th, a massive storm system moved from the south central plains up the Ohio River Valley into New England. Widespread flooding of varying degrees of severity occurred from Oklahoma to western New York and central Pennsylvania.

A major flash flood occurred at Nacogdoches, Texas, the night of Jan. 31-Feb. 1 with four lives lost and more than five million dollars in property damage.

Major flooding occurred in the East Gulf of Mexico drainage - the worst since 1929 in the Choctawhatchee River Basin. Record discharges were reported on small streams in the Choctawhatchee and Alabama River Basins where damage was estimated at more than $36 million.

These and other hydrologic events of unusual significance or involving loss of life or property damage are discussed in more detail below.

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ST. LAWRENCE DRAINAGE		
Southern Michigan Streams	During the period of the 20th-24th rainfall amounts of up to 2 inches were reported which with warm temperatures and consequent snowmelt produced rises on streams in the area. The only significant flooding was on the Clinton River around Fraser where a crest nearly 2 feet over flood stage caused some road closures. The Raisin River went slightly over flood stage at Monroe. Crests along the Grand River were about two-thirds bankfull with stages just under bankfull on some tributaries.	0	N.A.
Maumee River Basin	Streams in the basin fell to near normal stages by the 17th when moderate rain combined with warmer temperatures caused snowmelt which reversed the trend. Heavy rains of 1 to 2 inches on the 22d to 24th caused sharp rises with the St. Mary's River, cresting 5 feet over flood stage at Decatur, Ind. Crests on the St. Josephs, Tiffin, and upper Maumee Rivers were generally 2 to 3 feet over flood stage. Flooding continued into March on these streams.	0	N.A.
Sandusky River	Average precipitation over the basin for the month was 3.56 inches - 180 percent of normal. More than 2 inches of this total occurred during the 22d-24th and caused light flooding along the Sandusky River with crests up to about 1 foot over flood stage.	0	N.A.
Niagara River Basin	Rains of 1.5 to 2 inches during the 23d-26th caused minor flooding along Ellicott and Tonawanda Creeks. On the 26th and 27th high winds caused water level in Lake Erie to rise about 5 feet, which combined with an ice jam at Niagara Falls to cause flooding in the Cayuga Island area of the city of Niagara Falls - a rather rare event. Some street and residential damage occurred.		N.A.
Genessee River Basin	Unseasonably warm temperatures caused considerable snowmelt from the 21st and was followed by rains of up to an inch which resulted in minor flooding along Oatka and Black Creeks. No flooding occurred on the main stem of the Genesee River.	0	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

FEBRUARY 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ST. LAWRENCE DRAINAGE-Cont'd		
Lake Champlain Drainage	Small stream flooding was reported in northwestern Vermont on the 24th due to a combination of snowmelt, rains of up to 1.5 inches, and ice jams. No reporting stations went over flood stage, however.	0	N.A.
	ATLANTIC SLOPE DRAINAGE		
Hudson River Basin	A warm, sunny period was followed by moderate to heavy rainfall which ranged up to 2.6 inches over the lower portion of the basin during the 48 hours ending at 7 a.m. on the 25th. The combination of snowmelt and rain produced strong rises on streams from the Mohawk Valley southward. The Wallkill River crested 1 foot over flood stage at Gardiner, N. Y., while Wappinger Creek went slightly over flood stage. The Mohawk River remained within banks in spite of a surge from the breakup of an ice jam which crested just below flood stage at Cohoes, N. Y.	0	N.A.
Raritan River Basin	Rainfall averaging about 1.5 inches over the basin the night of the 24th-25th combined with snowmelt to cause strong rises on streams in the basin with the Millstone River cresting 1 foot over flood stage at Blackwell's Mills, N. J., and the Raritan River going slightly over flood stage.	0	N.A.
Susquehanna River Basin	This was the third consecutive wetter-than-normal month in the Susquehanna Basin, with precipitation amounts averaging 3.41 inches, or nearly 150% of normal. Snow covered the ground to depths of three to six inches through the first nineteen days, with the snowcover re-established on the 25th in northern areas and remaining through the end of the month. Streamflow on the Susquehanna River and tributaries decreased until the 24th and 25th, when a major storm system brought 2 to 3 inches of precipitation (rain south and mixture of rain and snow north) to the basin. The runoff produced by the rain and melting snow resulted in significant rises on all streams. Some urban and small stream flooding was reported along with low-level flooding along most of the Susquehanna River. Flood stages were topped by 1 to 4 feet at several places and, with the exception of "AGNES" in 1972, reached the highest levels since March 1964. Moderate flooding also occurred along several tributaries, including the Tioga, Tunkhannock, and Chemung Rivers with the Chemung cresting 5 feet over flood stage at Chemung, N. Y. Minor flooding occurred along the Chenango River with crests less than 1 foot over flood stage.	0	N.A.
Coastal Basins in North Carolina	The lower Neuse and Cape Fear Rivers continued over flood stage from January. Rainfall of 1 to 2 inches the first four days of February caused the upper Neuse and middle and lower Cape Fear Rivers to go over flood stage and caused a second crest on the lower Neuse. Rainfall of 1 to over 2 inches on the 17th and up to 1 inch on the 22d caused additional flooding on these streams which continued into March on the lower Neuse River. This flooding was generally confined to	0	N.A.

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ATLANTIC SLOPE DRAINAGE-Cont'd		
	low-lying areas with crests of about 1 to 4 feet over flood stage and no substantial damage indicated. The Roanoke River was held at a relatively constant stage about 1 foot over flood stage at Williamston the entire month by releases from upstream reservoirs.		
Pee Dee, Santee, and Edisto River Basins	Monthly rainfall for the Yadkin River Basin in North Carolina, a tributary of the Pee Dee, was lower than in most other areas, averaging only 3½ inches. For the Pee Dee Basin in South Carolina, the average was 6 inches in northern sections and 5 to 5½ inches over the lower reaches. For the Lumber River Basin, the average was 4 inches, but one half of this amount fell in a 24-hour period ending on the 19th. For the Catawba Basin monthly totals averaged 4½ inches and were distributed well throughout the month. The Broad River Basin received an average rainfall for the month of 5½ inches. Tryon, N. C., received one of the higher totals with 6.39 inches. In the Saluda Basin mountain and foothill headwaters received 7 inches while lower areas received an average of near six inches. For the lower Santee Basin, Congaree, and Edisto Basins, monthly totals averaged 5¼ to 5½ inches. There was no flooding in the Yadkin or Catawba Basins while minor flooding occurred along the Broad River and the Saluda River below Lake Greenwood. On the Congaree River, work on the new bridge at Columbia, S. C., was halted repeatedly during the month but no losses occurred due to adequate warnings. However, lowland flooding below Columbia did an estimated $5,000 damage. There are no reporting stations along that reach. The Lumber River was above flood stage the entire month at Lumberton, N. C. The crest nearly 4 feet over flood stage was just below the stage at which serious damage occurs although a few families were evacuated. Losses were estimated at $10,000. The Pee Dee River was above flood stage for all but three days of the month with interruption of logging operations and losses estimated at $5,000. Lowland flooding along the lower Santee River caused losses of $5,000 to machinery which the owner failed to move after receiving adequate warnings.	0	25
Savannah, Ogeechee, and Alatamaha River Basins	Flooding continued from January on the lower Ogeechee and Savannah Rivers lasting the entire month on the latter stream. Two periods of heavy rainfall the week of the 16th-23d caused widespread but relatively light flooding on streams in these basins. Rainfall amounts totaled up to more than 5 inches for the period. Crests were generally 1 to 3 feet over flood stage with Clyo Ga., on the Savannah River reporting 4.2 feet over flood stage on the 28th.	0	N.A.
	EAST GULF OF MEXICO DRAINAGE		
Apalachicola River Basin	Heavy rainfall over the headwaters of the basin on the 3d-6th totaling nearly 4 inches resulted in a crest 1.8 feet over flood stage at Blountstown, Fla., on the 8th. Two periods of heavy rainfall during the	0	N.A.

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	EAST GULF OF MEXICO DRAINAGE-Cont'd		
	week of the 16th-23d with storm totals ranging from 2 inches to more than 10 inches over a small portion of the basin in east central Alabama caused minor to moderate flooding along the Flint River with a crest 6.6 feet over flood stage at Albany, Ga. Severe flooding and substantial residential damage occurred along Kinchafoonee Creek, a tributary of the Flint. The Chattahoochee River crested 6.5 feet over flood stage at W. F. George Lock & Dam on the 19th. Downstream, the crest nearly 8 feet over flood stage on the Apalachicola River at Blountstown caused relatively light damage due to lack of development on the flood plain.		
Choctawhatchee River Basin	The heaviest rains in many years occurred on the 15th-18th over the headwaters of the Choctawhatchee River. The greatest amounts were concentrated over the upper Pea River, a tributary, with storm totals of between 10 and 11 inches. The crest stage of 37.26 feet at Elba, Ala., was the highest since 1929 when the record stage of 43.4 feet occurred. Flood stage at Elba is 30 feet. At Ariton upstream from Elba the crest stage of 24.38 feet was approximately as high as the 1929 flood. Discharges on some small streams in the headwaters of the basin approached or exceeded the highest of record from measurements by the U. S. Geological Survey. On the main stem of the Choctawhatchee River light flooding occurred at Newton and Caryville, Ala., with crests less than 2 feet over flood stage. Widespread flooding of farm and pasture land occurred with livestock and erosion losses heavy. Damage was reported at the communities of Ariton, Elba, and Sampson, Ala. Six homes were flooded near Ariton and 71 were flooded outside the levees at Elba. Estimates of damage in the basin by the Federal Disaster Assistance Administration included: roads and bridges $624,800; sewers, $67,100; parks, $10,800; farmland, buildings and livestock, $168,000; and urban (mostly in Elba), $380,300. Excellent warnings at Elba permitted evacuation of 700 people and moveable property with savings of $300,000 estimated by local officials.	0	1,251
Escambia River Basin	The storm of the 15th-18th discussed above deposited amounts over the basin ranging from about 3 to as much as 10 inches over a portion of the upper Conecuh River, which crested 6 feet over flood stage at River Falls, Ala., and 3 feet over flood stage downstream Brewton, Ala. Widespread flooding of low-lying roads and crop and pasture lands was reported. The crest discharge at Brantley, Ala., on the upper Conecuh was reported to have a frequency of 25 years by the U. S. Geological Survey. Damage of $419,000 to roads and bridges was estimated by the Federal Disaster Assistance Administration. The flood damage curves of the Corps of Engineers indicated agricultural losses of $356,000. A young boy drowned when he fell off a makeshift raft on a flooding creek near Luverne, Ala.	1	775
Alabama River Basin	Two major storms resulted in well above-normal rainfall over the basin with monthly totals of up to more than	1	34,816

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	EAST GULF OF MEXICO DRAINAGE-Cont'd		
	10 inches reported-3 to 4 inches above normal. The storm of the 15th-18th deposited amounts of 6 to 8 inches over the upper Alabama and lower Tallapoosa drainages with lesser amounts to the north. A crest 2 feet over flood stage was reported at Tallapoosa on the lower Tallapoosa River and crests of 10 to nearly 12 feet over flood stage occurred on the lower Alabama River with somewhat less flooding upstream. Small stream flooding was widespread with record or near record stages and discharges reported on some of them by the U. S. Geological Survey. The peak discharge of 90,000 c.f.s. for Cedar Creek near Minter was estimated to be 2.3 times that of the 100 year flood with a record stage of 26.5 feet. A near record stage of 28.4 feet on Catoma Creek which runs through the southern edge of Montgomery forced the evacuation of 200 people there with 65 homes flooded. A record discharge and near record stage occurred on Big Swamp Creek near Lowndesboro. Extensive damage to roads, bridges, crops, and livestock resulted from this small stream flooding, estimated at $80,000 in Wilcox County with one man drowned and 30 bridges washed out, $26,000 in Dallas County, and $74,500 in Lowndes County. Rains of 2 to 6 inches on the 3d-5th caused flooding on the upper Cahaba River which crested about 2 feet over flood stage at Centreville. This storm may also have contributed to the failure of Walter Bouldin Dam on the Coosa River. About 400 feet of the earthen portion of the dam gave way early on the morning of the 10th. There was no significant flooding downstream and no reporting stations went over flood stage. There was no loss of life. However, damage to the power plant was extensive, estimated at $17 million, and loss of power generation capacity for 1 to 2 years is expected to exceed that figure. Estimates of damage over the basin provided by the Federal Disaster Assistance Administration and the Crops of Engineers are: Cahaba River, $5,500 to agriculture and $26,000 to roads; Tallapoosa River, $10,000 to agriculture, $59,000 to roads and bridges and $100,000 urban; and Alabama River, $462,600 to agriculture, $123,000 to roads and bridges, and $30,000 urban.		
Tombigbee River Basin	Monthly rainfall over the basin was generally above normal, ranging up to over 9 inches in the headwaters, 5 to 7 inches over the middle portion of the basin and over 10 inches over the lower basin. Most of this rainfall occurred during two periods, the 3d-5th and the 15th-18th. The first storm deposited amounts of 4 to 5 inches over the basin with flooding generally of a minor nature. Crests of 2 feet over flood stage occurred on the lower Black Warrior River and 3.6 feet over flood stage at Coffeeville, Ala., on the lower Tombigbee. The second storm left amounts of 3 to 5 inches over the basin with heaviest amounts over the lower Tombigbee and the Black Warrior drainage. Flooding was a little more severe with a crest 2 feet over flood stage on Noxubee Creek at Macon, Miss., nearly 4 feet over flood stage on the lower Black Warrior, and from 4.6 to 7 feet over flood stage on	0	317

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

FEBRUARY 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	EAST GULF OF MEXICO DRAINAGE-Cont'd		
	the lower Tombigbee. Flooding was generally confined to lowlands and damage was about 90 percent agricultural. Losses estimated by the Corps of Engineers include $74,000 on the East Fort Tombigbee, $80,000 along the Black Warrior River, and $163,000 on the Tombigbee River main stem.		
Pascagoula and Pearl River Basins	Monthly rainfall ranged from about 1 inch over portions of the lower Pearl River to nearly 8 inches over the headwaters of the Pearl and Pasacagoula Rivers. Except for locally heavy amounts above Jackson on the 1st-2d nearly all of this rain occurred during the storm of the 15th-18th and resulted in minor to moderate flooding on most streams in these basins. Flooding continued on the lower Pearl from January lasting until Feb. 5 at Pearl River but continuing the entire month at Bogalusa. Upstream, minor flooding occurred at Jackson, Miss., from the 2d to the 12th. Otherwise, flooding was caused by the storm of the 15th to 18th which produced crests on the Pearl River generally in the range of 3 to 5 feet over flood stage except at Jackson where a crest nearly 13 feet over flood stage occurred. Moderate flooding occurred on several tributaries of the Pasacagoula River, including the Leaf and Chickasawhay Rivers and Tallahala Creek with crests of about 2 to 4 feet over flood stage. Except for the evacuation of a few families at Jackson, the extensive lowland flooding mainly affected logging and agricultural operations which were at a standstill during the month.	0	N.A.
	UPPER MISSISSIPPI BASIN		
Illinois River Basin	Precipitation from the storm of the 22d-24th ranged from 1.5 inches over the upper portion of the basin to near 3 inches over the lower basin, some of which fell as snow. Most of the snow melted within a few days, but probably made only a minor contribution to flooding. From 1 to 2 feet of flooding occurred on the upper Illinois while on the lower Illinois below Havana flooding continued into March with no crests during February.	0	N.A.
Meramec River Basin	Heavy rainfall of about 2 inches Jan. 31 to Feb. 2 caused light flooding on the Bourbeuse River on the 2d and 3d. Rainfall of about 2.5 inches on the 22d-24th caused light flooding on the Bourbeuse and upper Meramec Rivers. Moderate flooding occurred along the middle and lower Meramec and lower Big Rivers with crests generally about 5 feet over flood stage.	0	N.A.
	MISSOURI BASIN		
Lower Missouri Basin	Heavy rainfall of 2 to 3 inches over the southern portion of the basin Jan. 30 to Feb. 1 caused sharp rises on most streams with minor flooding on the Blackwater River at Blue Lick, Mo. from the 2d to the 4th. Precipitation in the form of both rain and snow occurred on the 22d-24th with amounts of 2 to 3 inches. Rises again occurred on streams in the area with the Grand	0	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

FEBRUARY 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	MISSOURI BASIN-Cont'd		
	River going slightly over flood stage at Sumner, Mo. Damage was negligible at this season of the year.		
	OHIO BASIN		
Allegheny River Basin	The storm of the 22d-24th deposited rainfall amounts of up to about 3 inches over the basin. This rain combined with warm temperatures to melt a snowpack ranging up to 10 inches in depth. The resultant runoff caused widespread urban and flash flooding with numerous streets and basements flooded. Crests of about 2 feet over flood stage occurred along the Clarion River in Pennsylvania and on the Allegheny River at Olean, N. Y. Minor flooding was reported at Russell, Pa., on Conewango Creek and on the Allegheny River at Salamanca, N. Y., and Freeport, Pa.	0	N.A.
Upper Ohio River Basin	Above normal rainfall for the month was climaxed by the storm of the 22d-24th which caused rainfall of from 2 to more than 3 inches over the basin. However, there was no significant accumulation of snow over this area prior to the storm. Urban and small stream flooding was widespread with numerous roads closed and basements flooded. The most significant flooding occurred in the upper Hocking River Basin where a crest 3.4 feet over flood stage was reported at Enterprise, Ohio. Twenty-five families were evacuated in Rockridge and two families in Chauncy, Ohio. The Corps of Engineers estimated damage in the Hocking River Basin at $712,600. Minor flooding occurred along the lower Hocking River, the Mahoning River, and on the Muskingam River at McConnelsville, Ohio. A crest 2 feet over flood stage occurred at Racine, W. Va., on the Ohio River, the only point on the upper Ohio to go over flood stage.	0	713
Middle Ohio River Basin	Precipitation was generally above normal over the area during the month, being 200 percent of normal over the Scioto River Basin. Rainfall amounts from the storm of the 22d-24th were generally in the range of 2.5 to 3.5 inches. There was no significant snow accumulation to contribute to the runoff. Significant flooding occurred along most of the Scioto River with crests ranging from 2 feet over flood stage in the headwaters to 9 feet over flood stage at Piketon, Ohio, in the lower reach of the river. Relatively minor flooding was reported along portions of Little Miami, East Fork Little Miami, and the lower Miami Rivers with crests in the range of 2.5 to 4.5 feet. There is no gage presently available on the lower Miami River at Miamitown. Several homes and businesses were evacuated in Hamilton County. Extensive flooding of low-lying farmland occurred but damage was light at this season. On the Licking River several thousand acres of bottomland were flooded with a crest estimated at 2 feet over flood stage at Falmouth, Ky. All points along the middle reach of the Ohio River crested below flood stage.	0	2,100
Salt and Green River Basins	Heavy rainfall spread over western and central Kentucky on the 22d-23d with amounts of up to 5 inches	0	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

FEBRUARY 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	OHIO BASIN-Cont'd		
	reported. Extensive flooding of bottomland occurred with 20,000 acres inundated in the Salt Basin and 35,000 acres in the Green Basin. In the Salt Basin a crest 8 feet over flood stage occurred on Brashears Creek at Taylorsville and 3 feet of flooding on the Rolling Fork at Boston. On the lower Green River crests up to 5.5 feet over flood stage were reported.		
Wabash River Basin	Flooding from late January rains continued into early February along the lower Embarras and White, the upper Little Wabash, and portions of the middle and lower Wabash Rivers. Streams were therefore above normal and soils wet prior to the storm of the 22d-23d which deposited heavy rain over the basin. Storm totals averaged from 1.5 inches over the northern third of the basin to 3.5 inches over the southern third. Sharp rises occurred on streams in the basin with flood stage exceeded at most points. Flooding was relatively light on the more northern headwater streams, but moderate to severe flooding occurred along downstream reaches. Crests of as much as 8.5 feet over flood stage were reported on the lower Embarras, 6.7 feet over flood stage on the lower East Fork of the White River, more than 9 feet over flood stage on the lower White River, nearly 12 feet over flood stage on the lower Little Wabash and up to 8 feet over flood stage at some points on the middle and lower Wabash. Flooding continued into March with crests on the lower reaches of the larger streams occurring early in March. Two children were drowned at a small stream crossing near Columbus, Indiana.	2	N.A.
Cumberland and Tennessee River Basins	The storm of the 22d-23d caused flooding on several tributaries of the Cumberland and Tennessee Rivers although the main streams did not go over flood stage. In the Tennessee Basin, rains of 2 to 3.5 inches during the night of the 23d over the headwaters of the French Broad River caused minor flooding at Rosman, N. C. Rains of 2 to 3 inches over the upper Cumberland River caused flooding on the Harpeth River with a crest 6.8 feet over flood stage at Kingston Springs, Tenn., and minor flooding on the Red River at Port Royal, Tenn. The effect of the storm of the 22d-23d was increased by rains of 1.5 to 2 inches on the 16th-18th over the lower Tennessee Basin which caused some minor flooding along South Chickamauga Creek near Chattanooga. Low-lying agricultural land was inundated along these streams.	0	N.A.
Lower Ohio River	Flooding occurred early in the month as a result of late January rains, lasting one to two weeks on the lower Ohio main stem below Newburgh, Ind. Crests were generally in the range of 2 to 3 feet over flood stage although 7 feet of overflow occurred at Fords Ferry, Ky. Heavy tributary inflow from the storm of the 22d-24th caused renewed flooding late in the month which extended into March and April reaching major proportions during these months, and which will be discussed in subsequent reports.	0	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

FEBRUARY 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	WHITE BASIN		
White, Black, and Cache Rivers	Rains of around 2 inches the first two days of the month brought the Cache River back over flood stage on the 2d. It continued over flood stage the rest of the month aided by additional heavy rains on the 22d and the 23d. The latter storm dropped around 3 inches of rain over the lower Black Basin with resultant flooding thru the end of the month and a crest 7 feet over flood stage at Black Rock, Ark. The lower White River continued over flood stage from January. Flooding lasted the entire month at Augusta, Ark., aided by high releases from Bull Shoals and Norfolk Reservoirs.	0	N.A.
	ARKANSAS BASIN		
Verdigris and Neosho River Basins	Flooding continued from January on the Little Caney River and Bird Creek tributaries of the Verdigris River as discussed in the January report and lasted for the first 2 or 3 days of the month. Flooding also continued on the lower Neosho River at Commerce, Ok., from the heavy rains of late January and began at Oswego, Kansas, on the 1st. Although of short duration, the crest at Oswego of 4 feet over flood stage inundated about 25,000 acres in Oswego and Labette Counties with damage estimated at $10,000, mostly agricultural.	0	N.A.
Lower Arkansas River Basin	Light flooding occurred along the lower Poteau and the Fourche La Fave Rivers early in the month as a result of late January rainfall. The storm of the 22d-23d with rainfall of up to 3 inches caused light to moderate flooding along the lower Poteau and the Illinois Rivers with crests of about 3 to 5 feet over flood stage. The Arkansas River crested about 3 feet over flood stage at Van Buren, Ark., on the 23d and continued in flood there into March.		
	RED BASIN		
Tributaries of Middle Reach Red River	Locally heavy rainfall Jan. 30-31 of more than 2 inches caused flooding along several tributaries of the Red River in Oklahoma and Texas. Extensive lowland flooding occurred along the Sulphur River in Texas where average basin rainfall was 2.5 inches. Crests 5.5 feet over flood stage occurred at Hagansport and 10.4 feet over flood stage at Naples. However, there was little additional damage over that which was caused by earlier flooding of this area. A crest nearly 3 feet over flood stage occurred on Clear Boggy Creek at Caney, Ok.	0	N.A.
Ouachita and Black River Basins	Heavy rainfall of around 3 inches on the 1st-2d caused flooding along the Ouachita River which was most serious at Camden, Ark., where a crest 8 feet over flood stage occurred. There was minor flooding along the Sabine and Little Missouri River tributaries of the Quachita. Flooding extended downstream on the Ouachita to Monroe, La., where a crest slightly over flood stage resulted from rains of 1 to 3 inches on the 22d-23d which also caused the minor flood crest on the Black River at Jonesville, La. Flooding at Monroe continued into March.	0	N.A.

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	RED BASIN-Cont'd		
	Locally heavy rainfall the first two days of the month caused severe flash, urban, and small stream flooding in many areas from extreme northwest to north central Louisiana. Flooding occurred along Dorcheat, Bodcau, and D'Arbonne Bayous and around Cypress, Caddo, Bistinneau and D'Arbonne Lakes. Parishes affected included Caddo, Bossier, Webster, Iberville, and Union. Considerable flooding of farm land occurred with evacuation of cattle. Numerous highways and secondary roads were closed for varying periods of time.		
	LOWER MISSISSIPPI BASIN		
Yazoo and Big Black River Basins	Rainfall was frequent throughout the month with monthly totals of more than 9 inches over the headwaters of the Yazoo River. Heaviest amounts occurred during the first and third weeks of the month each storm resulting in periods of flooding on the Upper Big Black River whereas the second storm extended the period of flooding on the Tallahatchie and Yazoo Rivers into March. Crests were in the range of 2 to 3 feet over flood stage along the Tallahatchie and Yazoo Rivers and 7 to 8 feet over flood stage along the Big Black. Flooding was generally confined to timber and agricultural land with logging and farming operations at a standstill during the month.	0	N.A.
Lower Mississippi River	Heavy inflow from the Ohio River caused light flooding along the upper reaches of the lower Mississippi from New Madrid to below Caruthersville, Missouri. Crest were 1 to 2 feet over flood stage early in March with flooding limited to agricultural land not protected by levees. Downstream the river rose to within 3 or 4 feet of flood stage the middle of the month.	0	N.A.
	WEST GULF OF MEXICO DRAINAGE		
Calcasieu River	Rainfall for the month ranged up to as much as 6 inches in the headwaters of the river above Hineston, La., which resulted in two periods of flooding at Hineston with crests of 2 and 3.5 feet over flood stage. No flooding occurred downstream.	0	N.A.
Sabine River	Rains of 3 to 5 inches the first four days of the month caused significant flooding along the upper Sabine River from Emory to below Longview, Texas, and along the Lake Fork tributary. Crests were generally in the range of 3 to 5 feet over flood stage. However, nearly 10 feet of flooding was reported at Gladewater, Texas. On the lower Sabine, flooding which had persisted at Deweyville since early December ended on the 2d but the river went back over flood stage on the 6th in response to rains of 1 to 2 inches over the lower Sabine. Damage was primarily to roads, bridges, and farmland.	0	N.A.
Neches River Basin	A major flash flood occurred at Nacogdoches, Texas, the night of Jan. 31-Feb. 1. Rainfall of 8.7 inches	4	5,760

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

FEBRUARY 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	WEST GULF OF MEXICO DRAINAGE-Cont'd		
	was reported at the official station and an unofficial report of 13.5 inches was received. Two small creeks running thru the city overflowed causing widespread damage. About 500 residences were flooded with losses of $3 million. Damage to industrial and commercial property amounted to $500,000 and agricultural losses were estimated at $1,160,000 with 10,000 acres inundated. Other losses including public buildings, streets, utilities and railroads amounted to $1,100,000. Two periods of moderate flooding occurred on Attoyac Bayou with crests 4.9 and 3.7 feet over flood stage. Lowland flooding continued throughout the month on the Angelina River around Lufkin and the Neches River at Siboll. On the lower Neches 2 to 3 inches of rain during the first week of the month caused a crest nearly 5 feet over flood stage on Village Creek near Kountze, Texas, and aided by releases from Dam B, brought the Neches River up to flood stage at Beaumont, Texas. Lowland overflow was reported along Pine Island Bayou, and the Neches River around Evadale.		
Trinity River Basin	Significant flooding occurred along the Upper Trinity River from Crandall to Long Lake, Texas, as a result of 3 to 5 inches of rain over the headwaters during the first week of the month. Crests ranged from 5 feet over flood stage at Crandall to more than 12 feet over flood stage at Trinidad. The lower Trinity was above flood stage most of the month from Liberty to Moss Bluff due to releases from Lake Livingston which reached 37,000 c.f.s. from the 6th to the 13th. Crests were about 4 feet over flood stage.	0	N.A.
Brazos River Basin	Locally heavy rains early in the month caused moderate flooding on two tributaries of the Brazos River. The Little River crested 3.8 feet over flood stage at Cameron, Texas, as a result of releases from Lake Belton combined with runoff from rains of 1 to 2 inches. On the lower Navasota River a crest of 2.5 feet over flood stage occurred on the 6th at Bryan, Texas, where rainfall amounts of 2.2 inches on the 1st and 2.8 inches on the 4th were recorded.	0	N.A.
Guadalupe River	Rainfall of 3 to 4 inches occurred over the headwaters of the Guadalupe River the first four days of the month. The only flooding reported was on the extreme lower reach of the river from Victoria to Dupont, Texas. A crest 6 feet over flood stage occurred at Dupont where the period of flooding was extended to the 27th by releases of about 4,000 c.f.s. from Canyon Reservoir from the 11th to the 19th.	0	N.A.
	PACIFIC SLOPE DRAINAGE		
San Joaquin Basin (California)	Heavy rainfall during the early part of the month produced river levels above warning stage along the Cosumnes River. A crest of 7.8 feet occurred at Michigan Bar where the warning stage is 7.0 feet.	0	0

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

FEBRUARY 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	PACIFIC SLOPE DRAINAGE-Cont'd		
Sacramento River Basin	A series of storms produced rainfall in excess of 8 inches over the headwaters of the basin during the first week of the month culminating in a period of heavy rainfall the night of the 8th which caused a strong rise along the Sacramento River. Warning stages were not exceeded along the upper portion of the river but overflow into the bypass system began at Tisdale Weir on the 8th for the first time this winter season which continued until the 22d. Overflow also occurred at Colusa Weir from the 9th to the 11th. During the week ending on the 16th rainfall of up to 8 inches again occurred over the headwaters of the Sacramento River with the river cresting at 35.9 feet at Bend Bridge and 20.9 feet at Red Bluff, both below flood stage. However, heavy inflow from Mill and Antelope Creeks, from which streams no stage reports are received, caused crests of 217 feet, 4 feet over flood stage, at Tehama Bridge and 185.2 feet, 2.2 feet over flood stage, at Vina Woodson Bridge. Flooding occurred downstream to Hamilton City where 6,000 acres were reported inundated. On the lower Sacramento, warning stages were exceeded by 3.7 feet at Ord Ferry, 2.2 feet at Colusa Bridge, and 0.9 feet at Wilkins Slough. Overflows occurred at Moulton and Colusa Weirs and were prolonged at Tisdale Weir.	0	N.A.
Central Coastal Basins in California	Monthly rainfall totals of 10 to 20 inches were reported over the Russian River Basin with somewhat lesser amounts over the Napa Basin. These amounts were generally two to three times normal and resulted from a series of four storm fronts that passed over the area during the first 13 days of February. Each storm brought significant amounts of rain. With no drying out possible, toward the end of the series, practically all the rain that fell drained into the rivers so that flooding occurred on the Russian River in the lower reaches on the 13th of the month with the river receding to below flood stage early on the 14th. The Napa River barely exceeded flood stage for approximately four hours on the 12th. Moderate rains on the last day of January and the first two days of February caused minor rises on the Russian and Napa Rivers, but both remained well below flood stage. Rains continued off and on through the 13th of the month, hitting a climax on the 12th. The Russian River did not reach flood stage in the upper portion of the River, but did exceed flood stage at the Guerneville Bridge for nearly 24 hours and at Summerhome, 3½ miles upstream from Guerneville, for over 27 hours. Peak stages were 4.5 and 6 feet above flood stage at the Guerneville Bridge and Summerhome, respectively. There was damage to summer homes along the lower Russian River. The Napa River reached flood stage at St. Helena at about 1900 on the 12th, remaining above flood stage for about 4 hours. The peak was only 0.4 foot above flood stage. Flood stage was not approached in the lower portion of the Napa River.	0	N.A.

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	PACIFIC SLOPE DRAINAGE-Cont'd		
	The southern basins, Salinas and Pajaro Rivers, received moderate amounts of rain from the 1st to the 10th. Rises on the upper Salinas River were significant, reaching a peak on the 10th and 11th, but flood stages were not reached. Strangely, the peak on the lower Salinas River occurred on the 8th, but the flow was not significant. Rainfall over the Salinas River Basin ranged from a little over 3 inches at the mouth to nearly 11 inches in the upper portion. Over the Pajaro River Basin, rainfall ranged from 4 to over 7 inches. Minor rises occurred on the Pajaro River. The amounts of rain over both basins ranged from 1½ to 2 times normal.		
North Coastal Basins	Heavy snows at low elevations of 500 to 3,000 feet occurred during the first week of the month. Warm temperatures the second week led to high river stages but additional precipitation was light until most of the snow had melted from the lowlands. Rainfall in excess of 2 inches the 12th and 13th and again on the 18th and 19th caused warning stages to be exceeded on some streams. At the Dr. Fine Bridge on the Smith River the warning stage of 25 feet was exceeded by 1.3 feet on the 13th and by 3 feet on the 19th. On the Van Duzen River the warning stage of 15 feet at Bridgeville was exceeded by 0.1 foot on the 12th, and on the Eel River the warning stage of 14 feet at Fernbridge was exceeded by 4.6 feet on the 13th.	0	0
Coastal Basins in Oregon and Willamette Basin	Almost daily rains occurred over western Oregon during the first three weeks of the month with totals for the period ranging from 8 to 17 inches over the coastal area and 5 to 12 inches over the Willamette Basin. Heavy rains of 3.5 to 7.5 inches during the 9th to the 14th caused strong rises on streams in the area with the Wilson and Nehalem Rivers along the coast and the South Yamhill River in the Willamette Basin going over flood stage. Another period of heavy rain the 19th and 20th with amounts of up to 4.5 inches again caused rises on streams with the South Fork of the Coquill River going over flood stage. In all cases crests were less than 2 feet over flood stage and damage was light at this season of the year.	0	N.A.
Snake River Basin	February precipitation was 150 to 200 percent of normal over the basin. Boise, Idaho, had the greatest February total since 1940. Most of this precipitation fell from the 9th to the 13th and occurred as rain below 6,000 feet. These warm rains caused an ice breakup on the Little Wood River with backwater from an ice jam at Gooding, Idaho, flooding two basements. Emergency measures opened the channel shortly thereafter and damage was less than $200.	0	0
	PUERTO RICO		
	February rainfall totals averaged one inch - about 1.75 inches below normal. Drouth conditions continued to intensify in the south coastal area where soil moisture deficiencies were about 5 inches.		

FLOOD STAGE DATA

River and station	Flood stage	Above flood stages —dates		Crest	
		From–	To–	Stage	Date
	Ft.			Ft.	
ST. LAWRENCE DRAINAGE					
Clinton River:					
Fraser, Mich.	15	[illegible]	25	14.72	24
Raisin River:					
Monroe City, Mich.	8.5	25	27	8.54	25
St. Marys:					
Decatur, Ind.	15	23	1/	20.09	25
St. Josephs:					
Montpelier, Ohio	10	23	1/	12.8	26
Tiffin:					
Stryker, Ohio	11	24	1/	13.4	26
Maumee.					
Ft. Wayne, Ind.	15	23	1/	17.20	25
Defiance, Ohio	10	25	26	10.5	26
Sandusky:					
Upper Sandusky, Ohio	13	24	25	13.85	24
Tiffin, Ohio	9	24	27	9.05	26
Fremont, Ohio	10	26	26	10.2	26
Ellicott Creek:					
Tonawanda, N. Y.	6	25	25	6.28	25
Oatka:					
Garbutt, N. Y.	5	24	26	5.8	26
Black:					
Churchville, N. Y.	5	24	26	6.15	25
ATLANTIC SLOPE DRAINAGE					
Wallkill:					
Gardiner, N. Y.	15	24	25	#16.6	24
Wappinger Creek:					
Wappingers Falls, N. Y.	7	25	25	# 7.01	25
Millstone:					
Blackwells Mills, N. J.	7	24	26	7.99	25
Raritan:					
Manville, N. J.	12	25	25	12.35	25
Bound Brook, N. J.	25.5	25	25	26.00	25
Chenango:					
Sherburne, N. Y.	8	24	26	8.79	25
Greene, N. Y.	13	25	25	13.27	25
Chenango Forks, N. Y.	10	25	25	10.49	25
Tioga:					
Lindley, N. Y.	14	24	25	15.56	24
Chemung:					
Elmira, N. Y.	10	24	25	11.50	24
Chemung, N. Y.	12	24	26	17.02	25
Tunkhannock Creek:					
Dixon, Pa.	9	24	25	12.53	25
West Branch Susquehanna:					
Williamsport, Pa.	20	24	26	21.94	25
Milton, Pa.	19	24	26	23.00	25
Lewisburg, Pa.	18	24	26	21.98	25
Susquehanna:					
Bainbridge, N. Y.	15	24	26	15.47	25
Conklin, N. Y.	11	24	27	14.04	25
Vestal, N. Y.	18	24	27	21.46	25
Towanda, Pa.	16	24	26	20.13	25
Wilkes Barre, Pa.	22	25	27	26.2[illegible]	26
Danville, Pa.	20	24	27	21.57	26

River and station	Flood stage	Above flood stages —dates		Crest	
		From–	To–	Stage	Date
	Ft.			Ft.	
ATLANTIC SLOPE DRAINAGE–Cont'd					
Susquehanna–Cont'd:					
Sunbury, Pa.	24	25	27	25.77	25
Harrisburg, Pa.	17	25	27	18.57	26
Roanoke:					
Williamston, N. C.	10	Jan 17	1/	11.1	Many Days
Tar:					
Greenville, N. C.	13	22	23	13.3	22
Neuse:					
Neuse, N. C.	14	6	9	15.4	8
Smithfield, N. C.	13	6	10	#16.8	7
		17	18	#13.7	17
Goldsboro, N. C.	14	Jan 14	15	A16.0	9
				17.1	12
		19	17	17.9	22
Kinston, N. C.	14	Jan 18	8	A16.7	3
		11	17	15.1	14
		22	1/	16.0	26
Cape Fear:					
Huske Lock and Dam, N. C.	42	6	9	47.7	7
Elizabethtown, N. C.	20	Jan 26	U	27.2	Jan 28
		6	10	25.6	8
		20	20	20.0	20
Rocky:					
Norwood, N. C.	15	5	6	18.25	5
Lynches:					
Effingham, S. C.	14	2	2	14.0	2
Lumber:					
Lumberton, N. C.	9	Jan 12	1/	A12.75	21
Little Pee Dee:					
Galivants Ferry, S. C.	9	Jan 14	1/	A11.1	25
Black:					
Kingstree, S. C.	12	23	27	12.4	24
Pee Dee:					
Cheraw, S. C.	30	6	6	E31.8	6
Pee Dee, S. C.	19	Jan 12	16	23.0	Jan 19
		20	1/	20.5	23
Broad:					
Blair, S. C.	14	5	7	17.4	6
		19	20	15.1	19
		25	26	16.0	25
Saluda:					
Chappells, S. C.	14	5	5	14.0	5
North Fork Edisto:					
Orangeburg, S. C.	8	20	20	8.3	20
		25	25	8.2	25
Edisto:					
Givhans Ferry, S. C.	10	1	2	10.1	1
		19	1/	12.6	27
Savannah:					
Millhaven-Wade 2 SE, Ga.	15	13	18	15.5	15
		22	1/	16.9	27
Clyo, Ga.	11	Jan 18	1/	A15.2	28
Ogeechee:					
Midville, Ga.	6	20	26	6.8	24
Scarboro, Ga.	8	19	1/	10.7	25
Eden, Ga.	9	Jan 26	13	A 9.3	7
		21	1/	12.4	27
Ocmulgee:					
Macon, Ga.	18	18	21	19.9	20
		25	26	18.4	26
Lumber City, Ga.	15	26	1/	16.6	28
Oconee:					
Milledgeville, Ga.	20	19	20	20.6	19

FLOOD STAGE DATA

River and station	Flood stage	Above flood stages—dates From—	Above flood stages—dates To—	Crest Stage	Crest Date
	Ft			Ft	
ATLANTIC SLOPE BASINS—Con't					
[illegible]					
Dublin, Ga.	21	22	[illegible]	22.9	[illegible]
Mt. Vernon, Ga.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Altamaha:					
[illegible], Ga.	[illegible]	[illegible]	1[illegible]	[illegible]	[illegible]
EAST GULF OF MEXICO BASINS					
Flint:					
Albany, Ga.	20	20	26	[illegible]	21
Newton, Ga.	24	21	26	25.2	25
Bainbridge, Ga.	25	24	27	[illegible]	[illegible]
Chattahoochee:					
[illegible] Lock and Dam, Ga.	134	18	[illegible]	140.[illegible]	19
Apalachicola:					
Blountstown, Fla.	15	7 18	9 Mar 8	16.8 2[illegible].78	8 22
Pea:					
Ariton, Ala.	[illegible]	[illegible]	[illegible]	24.38	18
Elba, Ala.	30	19	21	[illegible].26	20
Choctawhatchee:					
Newton, Ala.	19	19	20	#19.[illegible]	20
Caryville, Fla.	1[illegible]	21	28	[illegible]	24
Conecuh:					
Brantley, Ala.	[illegible]	1[illegible]	[illegible]	24.52	19
River Falls, Ala.	37	20	22	#42.85	21
Brewton, Ala.	17	22	25	19.95	23
Escambia:					
Century, Fla.	17	[illegible]	[illegible]	#1[illegible].9	[illegible]
Tallapoosa:					
Tallapoosa Water Plant, Ala.	25	19	20	[illegible]	20
Cahaba:					
Centreville, Ala.	[illegible]	5	5	24.97	5
Alabama:					
Montgomery, Ala.	35	19	[illegible]	36.[illegible]	20
Jones Bluff Lock and Dam, Ala.	122	19	[illegible]	124.2	19
Selma, Ala.	45	19	21	48.[illegible]5	19
Millers Ferry Lock and Dam, Ala.	66	8 17	9 2[illegible]	#66.6 77.6	8 [illegible]
Claiborne, Ala.	40	[illegible] 18	[illegible] 28	#40.4 #48.0	[illegible] [illegible]
Noxubee:					
Macon, Miss.	2[illegible]	20	[illegible]	[illegible].86	[illegible]
Black Warrior:					
Bankhead Lock and Dam, Ala.	1[illegible]	19	19	#1[illegible]	19
Warrior Lock and Dam, Ala.	3[illegible]	8 19	8 24	#3[illegible].1 #3[illegible].6	[illegible] [illegible]
East Fork Tombigbee:					
Fulton, Miss.	16	[illegible] 17	[illegible] 21	16.85 16.11	[illegible] 18
Tombigbee:					
Amory, Miss.	[illegible]	[illegible] 17	[illegible] 18	20.38 20.75	[illegible] 17
Gainesville, Ala.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Demopolis Lock and Dam, Ala.	[illegible]	8 [illegible]	8 [illegible]	[illegible] #53.3	[illegible] [illegible]
Coffeeville Lock and Dam, Ala.	[illegible]	6 2[illegible]	1[illegible] 1[illegible]	#46.6 #50.2	[illegible] [illegible]
Tallahala Creek:					
Laurel, Miss.	1[illegible]	1[illegible]	[illegible]	[illegible]	19
Leaf:					
Beaumont, Miss.	[illegible]	19	[illegible]	[illegible]	[illegible]
EAST GULF OF MEXICO BASINS—Continued					
[illegible]					
Enterprise, Miss.	[illegible]	[illegible]	[illegible]	23.4	18
[illegible]					
[illegible], Miss.	[illegible]	22	[illegible]	22.4	[illegible]
[illegible]					
[illegible], Miss.	1[illegible]	17	23	16.7	20
Pearl:					
[illegible], Miss.	[illegible]	19	25	[illegible]	20
Carthage, Miss.	1[illegible]	1[illegible]	27	21.4	21
[illegible], Miss.	[illegible]	2 16	[illegible] [illegible]	[illegible] 30.90	1[illegible] 20
Monticello, Miss.	19	17	[illegible]	[illegible]	[illegible]
Columbia, Miss.	[illegible]	18	[illegible]	18.7	19
Bogalusa, La.	15	Feb [illegible]	1/	A19.59	23
Pearl River, La.	12	Feb [illegible] 19	[illegible] 1/	[illegible]	[illegible]
Upper Mississippi Basin					
Illinois River:					
Morris, Ill.	1[illegible]	23	[illegible]	14.30	[illegible]
La Salle, Ill.	20	2[illegible]	Mar [illegible]	22.20	25
Havana, Ill.	14	[illegible]	1[illegible]	16.3	Mar 3
Beardstown, Ill.	14	23	1/	17.8	Mar 5
Meredosia, Ill.	32	[illegible]	1/	34.5	Mar 4
Bourbeuse River:					
Union, Mo.	15	[illegible] 24	[illegible] 25	[illegible] 17.2	2 25
Big River:					
Byrnesville, Mo.	16	23	25	21.0	[illegible]
Meramec River:					
Sullivan, Mo.	15	23	[illegible]	17.5	23
Pacific, Mo.	18	23	26	23.50	26
Eureka, Mo.	18	24	27	23.3	[illegible]
Valley Park, Mo.	16	24	27	21.10	[illegible]
Missouri Basin					
Grand River:					
Sumner, Mo.	26	22	23	26.25	[illegible]
Blackwater River:					
Blue Lick, Mo.	25	2	4	[illegible]	[illegible]
Ohio Basin					
Conewango Creek:					
Russell, Pa.	[illegible]	24	28	8.23	27
Clarion:					
Ridgeway, Pa.	11	24	[illegible]	13.0	24
[illegible], Pa.	11	[illegible]	25	12.8	24
[illegible]					
Olean, N. Y.	10	[illegible]	27	11.8	25
Salamanca, N. Y.	12	[illegible]	25	12.3	25
[illegible]	21	24	25	21.6	25
Mahoning:					
Warren, Ohio	[illegible]	[illegible]	[illegible]	[illegible]	25
Youngstown, Ohio	10	[illegible]	[illegible]	[illegible]	25
[illegible]					
McConnelsville, Ohio	[illegible]	24	25	11.5	24
Hocking:					
Enterprise, Ohio	12	23	26	15.37	24
Athens, Ohio	20	[illegible]	25	20.37	[illegible]

FLOOD STAGE DATA

River and station	Flood stage	Above flood stages dates		Crest	
		From	To	Stage	Date
	Ft			Ft	
[illegible]					
Paint Creek:					
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Scioto:					
[illegible]	[illegible]	[illegible]	[illegible]	12.95	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	13.65	[illegible]
[illegible]	[illegible]	[illegible]	[illegible] 1	15.90 22.20	1 [illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	16.70 [illegible]	[illegible]
[illegible]					
Perintown, Ohio	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]					
Kings Mills, Ohio	[illegible]	[illegible]	[illegible]	21.5	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	15.5	[illegible]
Licking:					
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Miami:					
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]					
Taylorsville, Ky.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Rolling Fork:					
Boston, Ky.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]					
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Green:					
[illegible]	[illegible]	[illegible]	[illegible]	21.50	[illegible]
Woodbury, Ky.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Calhoun, Ky.	[illegible]	[illegible]	4	26.0	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	32.5	Mar [illegible]
[illegible]					
[illegible]	[illegible]	[illegible]	[illegible]	19.49	[illegible]
[illegible]					
Ste. Marie, Ill.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	8 [illegible]	14.5 19.55	[illegible]
East Fork White:					
[illegible]	[illegible]	[illegible]	26	12.1	[illegible]
Seymour, Ind.	[illegible]	[illegible]	28	18.38	[illegible]
Bedford, Ind.	[illegible]	[illegible]	1/	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	14.0	[illegible]
White:					
Muncie, Ind.	[illegible]	[illegible]	25	10.7	[illegible]
Anderson, Ind.	[illegible]	[illegible]	[illegible]	14.55	[illegible]
Noblesville, Ind.	[illegible]	[illegible]	[illegible]	16.2	[illegible]
Nora, Ind.	[illegible]	[illegible]	27	14.02	[illegible]
Ravenswood, Ind.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Centerton, Ind.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Spencer, Ind.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	1/	E27.2	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	21.2	[illegible]
Edwardsport, Ind.	[illegible]	[illegible]	[illegible]	17.6 23.3	[illegible]
Petersburg, Ind.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Hazelton, Ind.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Skillet Fork:					
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Ohio Basin-Cont'd					
Little Wabash:					
Wilcox, Ill.	[illegible]	Jan 31 23	7 1/	19.82 #22.68	[illegible] 25
Carmi, Ill.	[illegible]	25	1/	#31.84	Mar 4
Wabash:					
Bluffton, Ind.	10	24	27	13.3	27
Wabash, Ind.	[illegible]	23	24	12.83	23
Lafayette, Ind.	11	22	1/	17.14	25
Covington, Ind.	16	Jan 31 23	1 1/	16.52 21.24	Jan 31 26
Montezuma, Ind.	14	Jan 30 22	3 1/	16.95 21.85	1 26
Clinton, Ind.	18	23	1/	21.8	26
Terre Haute, Ind.	14	Jan 30 23	3 1/	15.8 19.0	1 26
Hutsonville, Ill.	[illegible]	26	1/	21.9	Mar 1
Riverton, Ind.	18	26	1/	19.49	Mar [illegible]
Vincennes, Ind.	16	24	1/	19.69	Mar 1
Mt. Carmel, Ill.	17	5 24	8 1/	17.5 24.90	7 Mar 4
New Harmony, Ind.	15	[illegible]	1/	#18.7	Mar 5
Harpeth:					
Kingston Springs, Tenn.	15	23	[illegible]	21.84	23
Red:					
Port Royal, Tenn.	[illegible]	24	[illegible]	31.68	[illegible]
French Broad:					
Rosman, N. C.	[illegible]	24	24	8.5	24
South Chickamauga Creek:					
Chickamauga, Tenn.	11	18	20	11.72	19
Ohio:					
Racine, W. Va.	[illegible]	25	27	40.10	26
Cannelton Dam, Ind.	16	[illegible]	1/	E18.0	27
Tell City, Ind.	[illegible]	25	1/	#42.1	27
Newburgh, Ind. Dam 47	38	4 24	[illegible] 1/	#40.7 #44.6	10 Mar 1
Evansville, Ind. Dam 48	[illegible]	7 25	12 1/	#39.0 #43.5	10 Mar 2
Mt. Vernon, Ind.	[illegible]	[illegible]	14 1/	#37.4 #41.7	10 Mar 3
Uniontown, Ky. Dam 49	[illegible]	6 26	14 1/	38.5 44.0	10 Mar 4
Shawneetown, Ill.	33	[illegible] [illegible]	17 1/	#38.4 #44.2	11 Mar 4
Fords Ferry, Ky. Dam 50	[illegible]	[illegible] 24	19 1/	40.9 #52.5	11 Apr 3
Golconda, Ill.	40	28	1/	#43.7	Mar [illegible]
Paducah, Ky.	39	27	1/	E40.5	Mar 4
Brookport, Ill.	37	5 24	16 1/	#40.1 #42.4	11 Mar 4
Cairo, Ill.	40	4 24	17 1/	42.3 [illegible]	11 5
White Basin					
Cache:					
Patterson, Ark.	[illegible]	[illegible]	1/	[illegible]	Apr [illegible]
Black:					
Pocahontas, Ark.	17	26	1/	19.02	Mar [illegible]
Black Rock, Ark.	[illegible]	[illegible]	1/	21.0	[illegible]
White:					
Augusta, Ark.	26	Jan 2	1/	A30.6 [illegible]	[illegible] Apr 1
Clarendon, Ark.	[illegible]	Jan 11	[illegible]	A27.0	8
St. Charles, Ark.	[illegible]	Jan 17		25.3	Jan 31, Feb 9

FLOOD STAGE DATA

River and station	Flood stage	Above flood stages—dates From	Above flood stages—dates To	Crest Stage	Crest Date
	Ft			Ft	
Arkansas Basin					
Little Caney:					
[illegible], Okla.	[illegible]	Jan 31	[illegible]	[illegible]	1
Bird Creek:					
Sperry, Okla.	21	Jan 31	2	[illegible]	[illegible]
Owasso, Okla.	25	Jan 31	[illegible]	[illegible].47	Jan 31
Neosho:					
Oswego, Kans.	17	1	[illegible]	21.15	1
Commerce, Okla.	15	Jan 31	[illegible]	[illegible]	[illegible]
Illinois:					
Watts, Okla.	13	22	[illegible]	[illegible]	[illegible]
Tahlequah, Okla.	11	23	24	14.43	24
Little:					
Tecumseh, Okla.	11	22	22	11.5	22
Poteau:					
Panama, Okla.	24	1 22	[illegible] 24	26.15 *26.99	1 [illegible]
Fourche La Fave:					
Houston, Ark.	25	2	3	26.8[illegible]	[illegible]
Arkansas:					
Van Buren, Ark.	22	23	17	24.85	23
Clear Boggy Creek:					
Caney, Okla.	19	24	26	*21.7[illegible]	25
Sulphur:					
Hagansport, Texas	44	1	7	49.5	[illegible]
Naples, Texas	22	2	14	32.4	5
Little Missouri:					
Boughton, Ark.	20	2	3	21.15	3
Saline:					
Benton, Ark.	20	2	2	2[illegible].69	[illegible]
Ouachita:					
Arkadelphia, Ark.	17	2	3	18.26	2
Camden, Ark.	26	3	12	34.2	7
Monroe, La.	40	15	1	40.85	25
Black:					
Jonesville Lock and Dam, La.	50	18	27	50.6	22-2[illegible]
Lower Mississippi Basin					
Tallahatchie:					
Swan Lake, Miss.	26	[illegible]	17	[illegible]	[illegible]
Yazoo:					
Yazoo City, Miss.	29	16	17	[illegible]	14
Big Black:					
West, Miss.	12	[illegible] 16	[illegible] 28	19.72 20.08	[illegible] 19
Bovina, Miss.	28	[illegible]	[illegible]	[illegible]	11
Mississippi:					
New Madrid, Mo.	34	21	Mar 8	35.2	Mar [illegible]
Caruthersville, Mo.	32	21	Mar 1[illegible]	33.7	Mar [illegible]
Atchafalaya Basin					
Atchafalaya:					
Morgan City, La.	4	Jan 22 9	[illegible] 1[illegible]	4.4 5.2	Jan 27-29 23
WEST GULF COAST DRAINAGE					
Calcasieu:					
Hineston, La.	1[illegible]	[illegible] 1[illegible]	[illegible]	14.12 15.47	[illegible]
Lake Fork:					
Quitman, Texas (near)	1[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]					
Sabine:					
[illegible], Texas	[illegible]		[illegible]	15.3	[illegible]
[illegible], Texas	[illegible]	[illegible]	[illegible]	18.8	[illegible]
Gladewater, Texas	[illegible]	[illegible]	[illegible]	35.8	[illegible]
Longview, Texas	[illegible]	[illegible]	[illegible]	32.7	[illegible]
Tatum, Texas	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Bon Weir, Texas	[illegible]	[illegible]	[illegible]	21.82	[illegible]
Deweyville, Texas	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Attoyac Bayou:					
Chireno, Texas (near)	[illegible]	[illegible]	[illegible]	18.9 [illegible]	[illegible]
Angelina:					
Lufkin, Texas (near)	[illegible]	[illegible]	17	[illegible]	[illegible]
Village Creek:					
Kountze, Texas (near)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Neches:					
Alto, Texas (near)	[illegible]		[illegible]	17.9	[illegible]
Diboll, Texas (near)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Beaumont, Texas	[illegible]	[illegible]	[illegible]	4.0	[illegible]
East Fork Trinity:					
Crandall, Texas	[illegible]	[illegible]	[illegible]	17.8 13	[illegible]
Richland Creek:					
Richland, Texas (near)	[illegible]		[illegible]	[illegible]	[illegible]
Trinity:					
Dallas, Texas	[illegible]	[illegible]	[illegible]	37.3	[illegible]
Rosser, Texas	[illegible]		[illegible]	33.1	[illegible]
Trinidad, Texas	[illegible]	[illegible]	[illegible]	40.4	[illegible]
Long Lake, Texas	[illegible]		[illegible]	44.6	[illegible]
Liberty, Texas	[illegible]		[illegible]	27.80	[illegible]
Moss Bluff, Texas	[illegible]	[illegible]	[illegible]	8.10	[illegible]
Little:					
Cameron, Texas	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Navasota:					
Bryan, Texas (near)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Guadalupe:					
Victoria, Texas	[illegible]	[illegible]	[illegible]	23.1[illegible]	[illegible]
Dupont, Texas	[illegible]		[illegible]	26.1	[illegible]
PACIFIC SLOPE DRAINAGE					
Sacramento:					
Tehama, Calif.	[illegible]	[illegible]	[illegible]	217.0	[illegible]
Vina Woodson Bridge, Calif.	[illegible]	[illegible]	[illegible]	185.2	[illegible]
Central Coastal Basins					
Napa:					
St. Helena, Calif.	[illegible]	[illegible]	[illegible]	[illegible]	
Russian:					
Summer Home, Calif.	[illegible]	[illegible]	[illegible]	38.0	[illegible]
Guerneville, Calif.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
South Fork Coquille:					
Myrtle Point, Ore.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Wilson:					
Tillamook, Ore.	[illegible]	[illegible]	[illegible]	[illegible]	
Nehalem:					
Foss, Ore.	[illegible]	[illegible]	[illegible]	[illegible]	
South Yamhill:					
Whiteson, Ore.	[illegible]	[illegible]	[illegible]	[illegible]	

FLOOD STAGE DATA

River and station	Flood stage	Above flood stages —dates		Crest	
		From—	To	Stage	Date
	Ft			*Ft*	
[illegible] See Previous Monthly Reports for additional crest information.					
[illegible] Crest occurred in subsequent month and not yet available.					
[illegible] [illegible]					

River and station	Flood stage	Above flood stages —dates		Crest	
		From—	To	Stage	Date
	Ft			*Ft*	

RAWINSONDE DATA

Average monthly values

FEBRUARY 1975

ALBANY, NY
1007 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	96	-5.4	-8.8	26	.7
1000	28	171	-5.2	-9.6	29	1.9
950	28	544	-5.6	-9.1	27	4.7
900	28	957	-6.4	-10.8	28	7.9
850	28	1,403	-7.9	-12.7	29	10.7
800	28	1,885	-8.4	-16.4	28	13.0
750	28	2,334	-10.2	-18.5	28	15.4
700	28	2,914	-12.3	-21.3	28	17.5
650	28	3,478	-14.5	-23.5	28	20.1
600	28	4,032	-17.3	-26.1	27	23.2
550	28	4,729	-21.2	-29.7	28	26.3
500	28	5,426	-25.9	-34.9	27	30.9
450	28	6,181	-31.0	-38.1	27	33.2
400	28	7,007	-36.6	-43.3	27	37.3
350	28	7,923	-42.8		28	39.0
300	27	8,944	-48.6		27	49.8
250	27	10,128	-54.0		27	50.4
200	25	11,546	-55.4		27	48.4
175	25	12,399	-54.4			
150	25	13,389	-54.1			
125	25	14,558	-56.0			
100	24	15,959	-58.9			
80	24	17,357	-59.6			
70	24	18,231	-60.1			
60	24	19,162	-60.4			
50	23	20,298	-60.6			
40	22	21,683	-60.5			
30	20	23,472	-60.4			
25	19	24,617	-59.3			
20	16	26,028	-58.3			
15	14	27,880	-57.3			
10	9	30,455	-52.2			
7						

ALBUQUERQUE, NM
836 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	1,619	-.6	-5.8	35	.6
800	28	1,973	.5	-9.2	3	2.6
750	28	2,488	-2.7	-11.7	29	6.7
700	28	3,032	-6.1	-14.3	29	9.7
650	28	3,609	-9.4	-20.2	29	11.7
600	28	4,224	-12.7	-24.7	29	13.5
550	28	4,883	-16.3	-28.6	29	15.6
500	28	5,594	-21.0	-33.4	28	17.2
450	27	6,372	-25.9	-38.7	29	18.6
400	27	7,214	-32.1	-45.6	28	19.9
350	27	8,146	-39.4	-50.2	28	20.7
300	26	9,188	-46.5		28	22.7
250	26	10,377	-54.3		28	26.0
200	25	11,798	-56.8		27	27.6
175	25	12,645	-56.4		27	26.9
150	25	13,622	-57.4		27	25.3
125	25	14,768	-60.2		27	23.8
100	25	16,149	-63.1		27	21.9
80	25	17,519	-63.4		27	16.3
70	25	18,341	-63.1		27	12.1
60	25	19,288	-64.1		27	9.4
50	25	20,405	-63.4		27	10.2
40	25	21,782	-61.8		28	7.4
30	21	23,558	-60.2		28	8.1
25	21	24,697	-59.9		28	8.1
20	21	26,094	-58.7		28	9.2
15	19	27,899	-57.2		28	12.9
10	6	30,517	-52.4			

AMARILLO, TX
899 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	23	1,095	-1.6	-5.3	28	2.1
850	29	1,454	1.8	-7.6	29	5.2
800	28	1,943	1.1	-9.3	30	7.2
750	29	2,460	-.8	-13.6	29	8.3
700	28	3,028	-3.8	-15.6	28	9.5
650	28	3,590	-7.2	-19.3	28	10.5
600	29	4,209	-11.2	-24.6	27	12.1
550	28	4,871	-15.6	-28.6	27	14.1
500	28	5,584	-20.6	-32.7	27	16.3
450	28	6,356	-25.6	-36.8	27	21.2
400	27	7,197	-32.1	-41.6	27	22.7
350	27	8,129	-39.0	-44.3	27	25.5
300	27	9,167	-46.2		27	28.1
250	27	10,360	-53.3		27	29.7
200	27	11,784	-56.6		26	29.1
175	27	12,630	-56.7		26	29.2
150	26	13,612	-56.1		26	27.1
125	25	14,764	-58.0		26	25.3
100	25	16,157	-62.0		26	20.7
80	25	17,533	-62.8		26	18.6
70	25	18,355	-63.2		26	15.6
60	25	19,302	-63.8		26	12.5
50	25	20,421	-63.4		27	11.0
40	23	21,795	-61.9		27	9.9
30	22	23,583	-60.9		28	8.4
25	20	24,725	-60.1		28	9.2
20	18	26,117	-59.3		29	9.1
15	14	27,947	-56.6		28	12.2
10	8	30,579	-51.7			

* ANCHORAGE, AK
10[illegible] MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	45	-10.6	-15.1	35	.8
1000	15	171	-10.0	-20.7	01	2.7
950	28	443	-8.0	-17.2	03	2.9
900	28	865	-6.6	-15.9	07	2.4
850	28	1,310	-8.2	-18.0	11	3.3
800	28	1,779	-10.4	-19.5	12	3.9
750	28	2,274	-12.3	-21.6	13	5.0
700	28	2,799	-15.1	-24.5	14	4.7
650	28	3,356	-18.5	-27.4	15	4.2
600	28	3,948	-22.4	-31.7	16	3.0
550	28	4,582	-26.7	-35.0	20	2.4
500	28	5,264	-31.2	-39.4	23	3.2
450	28	6,003	-36.1	-42.6	24	4.1
400	28	6,812	-41.6	-45.2	25	5.7
350	28	7,709	-46.8		26	7.1
300	28	8,718	-51.5		27	7.3
250	27	9,897	-53.0		26	7.1
200	27	11,343	-50.7		26	7.9
175	27	12,216	-49.3		26	8.0
150	27	13,227	-49.3		26	8.7
125	27	14,422	-49.7		26	8.3
100	27	15,879	-50.9		26	8.9
80	27	17,326	-52.3		26	9.5
70	27	18,191	-52.3		26	9.3
60	27	19,186	-53.4		26	9.3
50	27	20,358	-53.8		26	9.2
40	26	21,784	-54.0		27	8.9
30	25	23,637	-54.7		28	9.3
25	23	24,815	-54.9		29	8.5
20	20	26,262	-55.5		30	8.2
15	15	28,118	-57.0		32	10.6
10	9	30,733	-58.5			

* ANNETTE, AK
1006 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	37	-1.7	-7.7	10	2.5
1000	21	130	-2.1	-9.1	10	3.4
950	28	500	-3.9	-10.6	14	4.2
900	28	931	-6.0	-12.9	17	4.6
850	28	1,376	-8.2	-15.7	19	4.8
800	28	1,845	-10.4	-17.9	21	5.3
750	28	2,340	-13.0	-22.1	22	6.6
700	28	2,862	-16.5	-24.5	22	7.3
650	28	3,410	-19.5	-29.0	23	7.3
600	28	4,007	-23.0	-32.5	24	7.9
550	28	4,639	-27.4	-35.6	24	8.5
500	28	5,318	-32.3	-39.7	25	9.3
450	28	6,054	-37.6	-40.6	26	10.5
400	28	6,860	-42.8	-45.1	26	11.8
350	28	7,755	-47.5		26	9.7
300	27	8,769	-51.4		27	8.4
250	26	9,955	-52.5		28	11.5
200	26	11,400	-51.1		29	9.8
175	26	12,271	-50.3		29	9.3
150	26	13,278	-49.9		29	9.8
125	26	14,467	-51.1		29	8.9
100	25	15,913	-52.7		31	8.8
80	25	17,352	-53.3		31	8.2
70	24	18,211	-54.4		31	8.2
60	23	19,199	-55.2		32	7.6
50	23	20,360	-56.6		32	7.0
40	22	21,777	-57.1		33	7.7
30	21	23,597	-57.0		35	8.2
25	19	24,755	-57.1		36	8.1
20	18	26,168	-57.4		36	8.8
15	17	27,981	-58.2		35	10.2
10	13	30,561	-50.7		36	13.1
7	6	32,830	-58.2			

ATHENS, GA
988 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	246	5.7	3.1	33	.5
1000						
950	28	572	7.5	1.0	25	3.3
900	28	1,017	6.9	-2.1	25	7.0
850	28	1,486	5.0	-5.5	26	10.5
800	28	1,982	4.1	-6.1	25	14.3
750	28	2,505	2.0	-8.4	25	16.3
700	28	3,059	-1.0	-12.9	25	18.0
650	28	3,647	-4.4	-15.9	25	19.0
600	28	4,273	-8.1	-19.1	26	20.5
550	28	4,944	-12.0	-23.0	26	22.8
500	28	5,667	-16.6	-27.9	26	26.1
450	28	6,451	-21.7	-31.7	26	29.6
400	27	7,307	-28.1	-37.2	26	31.6
350	27	8,254	-35.5	-45.1	26	34.4
300	27	9,306	-43.6		26	38.9
250	27	10,508	-52.4		26	42.5
200	27	11,927	-58.7		26	45.7
175	27	12,766	-58.8		26	45.6
150	25	13,737	-58.9		26	43.4
125	25	14,867	-62.8		26	39.6
100	23	16,224	-65.9		26	30.3
80	19	17,563	-67.0		26	21.3
70	18	18,373	-65.7		26	17.0
60	16	19,311	-65.2		27	13.6
50	16	20,425	-63.8		27	12.8
40	15	21,798	-62.6		27	11.0
30	15	23,586	-60.2		28	9.8
25	14	24,740	-58.6		28	10.6
20	13	26,142	-57.3		27	12.2
15	11	27,984	-54.0		27	17.0
10	10	30,541	-47.5			

* BARROW, AK
1019 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	27	8	-24.7	-27.1	08	.7
1000	22	160	-22.1	-24.0	12	1.8
950	27	521	-21.1	-23.2	08	2.3
900	27	922	-19.7	-23.2	09	2.2
850	27	1,347	-19.0	-24.5	10	1.6
800	27	1,798	-19.9	-26.9	12	1.0
750	27	2,275	-21.2	-28.9	18	.8
700	27	2,783	-23.1	-31.3	21	1.8
650	27	3,323	-25.3	-32.4	23	3.7
600	27	3,901	-28.1	-34.2	24	4.9
550	27	4,522	-31.5	-37.0	24	5.8
500	27	5,190	-35.9	-40.1	25	7.6
450	27	5,916	-40.6	-40.3	25	8.5
400	27	6,709	-45.8		25	10.7
350	27	7,590	-51.1		25	13.3
300	27	8,579	-55.6		25	13.1
250	27	9,737	-56.3		25	12.6
200	27	11,165	-53.6		25	13.9
175	27	12,026	-52.4		25	14.2
150	27	13,022	-52.5		25	15.4
125	27	14,201	-52.7		25	16.5
100	26	15,631	-53.1		25	18.2
80	24	17,082	-53.6		25	19.9
70	23	17,948	-54.0		25	18.5
60	21	18,916	-54.3		25	20.5
50	20	20,091	-54.7		25	21.6
40	16	21,532	-54.8		25	24.2
30	6	23,439	-55.3			

BARTER ISLAND, AK
1016 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	15	-28.4	-28.9	22	.8
1000	22	180	-23.3	-26.7	25	.8
950	29	510	-21.1	-24.9	31	.3
900	28	912	-18.1	-22.3	11	1.2
850	28	1,341	-16.8	-21.5	15	1.0
800	28	1,796	-17.2	-22.5	18	1.4
750	28	2,278	-18.7	-23.5	22	1.4
700	28	2,790	-21.0	-26.4	25	1.6
650	28	3,335	-23.5	-29.6	26	3.0
600	28	3,917	-26.5	-32.9	27	4.8
550	28	4,541	-30.4	-35.7	26	5.6
500	28	5,212	-35.0	-36.9	26	7.9
450	28	5,940	-40.0	-40.7	26	9.0
400	28	6,736	-45.0	-43.1	27	10.6
350	29	7,620	-50.1		27	11.7
300	28	8,615	-54.2		27	12.0
250	28	9,780	-55.1		27	11.5
200	28	11,214	-52.1		27	12.7
175	28	12,080	-51.2		27	13.1
150	28	13,083	-50.9		27	14.1
125	28	14,269	-51.5		27	16.0
100	28	15,716	-52.0		27	16.9
80	28	17,159	-52.7		28	19.0
70	28	18,020	-53.4		28	19.2
60	28	19,012	-53.9		28	20.3
50	27	20,187	-54.2		28	20.4
40	27	21,614	-55.7		28	19.4
30	27	23,443	-56.1		28	22.8
25	25	24,588	-57.3		28	23.2
20	18	26,022	-58.0		28	24.7
15	12	27,876	-58.3			

BETHEL, AK
1000 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	39	-18.3	-22.3	04	2.6
1000	15	165	-11.9	-18.9	08	4.2
950	28	433	-12.3	-18.7	10	3.1
900	28	846	-12.5	-18.8	14	2.4
850	28	1,283	-12.2	-18.7	17	2.4
800	28	1,746	-12.9	-20.4	18	2.5
750	28	2,238	-13.9	-22.5	20	2.9
700	28	2,759	-16.4	-24.8	20	3.8
650	28	3,314	-19.5	-28.0	21	4.4
600	28	3,904	-23.1	-32.8	22	5.3
550	28	4,537	-26.8	-36.5	22	5.4
500	28	5,219	-31.2	-39.9	22	6.0
450	28	5,959	-36.1	-41.8	23	6.9
400	28	6,767	-41.2	-45.2	23	7.9
350	28	7,567	-46.4		23	8.4
300	28	8,677	-51.4		24	8.3
250	28	9,854	-53.8		24	8.1
200	28	11,293	-51.3		23	8.4
175	28	12,164	-50.2		24	8.2
150	28	13,171	-50.0		24	8.9
125	28	14,362	-50.5		23	9.3
100	28	15,817	-51.1		23	8.9
80	28	17,266	-51.8		24	9.0
70	27	18,123	-52.1		24	9.1
60	27	19,120	-52.7		24	8.3
50	25	20,319	-53.5		24	6.9
40	24	21,748	-53.6		25	6.6
30	21	23,607	-53.5		26	6.7
25	16	24,835	-53.4		28	3.5
20	13	26,297	-52.2		27	3.5
15	9	28,212	-53.5			

* BISMARCK, ND
956 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	503	-12.3	-17.1	30	1.3
950	21	580	-13.5	-17.1	30	2.0
900	28	964	-11.5	-15.2	31	5.0
850	28	1,404	-9.8	-15.9	30	6.5
800	28	1,874	-8.8	-17.4	30	8.3
750	28	2,373	-10.4	-18.7	30	10.0
700	28	2,901	-13.1	-20.9	29	11.0
650	28	3,463	-16.0	-24.0	30	12.3
600	28	4,062	-19.3	-28.0	30	14.1
550	28	4,704	-23.3	-31.9	30	15.4
500	28	5,395	-28.0	-37.0	30	17.2
450	28	6,143	-33.0	-40.7	30	18.4
400	28	6,959	-39.8	-44.8	29	19.6
350	28	7,861	-46.5		29	21.2
300	28	8,868	-52.4		29	22.2
250	28	10,034	-56.8		29	23.3
200	28	11,455	-53.7		29	22.6
175	28	12,316	-52.7		28	21.9
150	28	13,313	-52.8		28	20.5
125	28	14,486	-54.5		29	20.1
100	28	15,910	-56.2		28	17.9
80	27	17,325	-57.5		29	16.1
70	27	18,167	-58.1		29	15.3
60	27	19,136	-59.1		29	14.4
50	27	20,278	-59.4		30	13.4
40	27	21,673	-59.9		30	12.8
30	25	23,475	-60.3		31	10.9
25	22	24,624	-59.1		31	10.3
20	22	26,022	-59.9		31	8.6
15	16	27,832	-59.6		30	8.9

BOISE, ID
916 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	871	.7	-4.0	12	1.9
1000						
950						
900	27	1,015	.2	-5.7	13	1.6
850	28	1,467	-1.3	-7.1	20	2.5
800	28	1,948	-3.7	-8.3	24	5.0
750	28	2,456	-6.3	-11.6	26	7.0
700	28	2,993	-9.6	-15.4	27	8.9
650	26	3,562	-12.6	-18.7	27	10.7
600	26	4,169	-16.6	-23.2	27	12.2
550	28	4,817	-20.9	-28.0	28	13.3
500	28	5,515	-25.8	-32.6	28	14.2
450	28	6,270	-30.9	-38.3	28	13.8
400	28	7,096	-37.1	-43.0	28	16.6
350	28	8,009	-43.6	-46.1	28	19.8
300	28	9,027	-50.3		28	23.7
250	28	10,203	-55.8		29	25.3
200	27	11,613	-57.0		29	23.2
175	26	12,470	-54.4		29	21.6
150	26	13,458	-54.6		29	19.7
125	26	14,620	-56.6		29	17.2
100	26	16,029	-58.2		29	14.2
80	26	17,429	-59.7		29	10.6
70	26	18,264	-59.9		30	10.3
60	26	19,226	-60.4		30	8.6
50	25	20,361	-60.7		32	5.4
40	25	21,749	-60.9		32	4.7
30	22	23,541	-60.3		33	4.9
25	21	24,682	-60.3		34	4.7
20	17	26,072	-60.3		36	5.3
15	8	27,912	-58.5			
10						
7						

BOOTHVILLE, LA
1017 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	1	14.4	12.6	20	.1
1000	28	143	15.8	12.0	21	1.3
950	28	578	13.6	8.6	22	5.0
900	28	1,033	12.7	2.9	23	7.8
850	28	1,512	10.4	-.1	24	9.4
800	28	2,015	8.1	-5.2	24	9.8
750	28	2,545	5.5	-9.4	25	10.8
700	28	3,106	2.5	-12.9	25	13.4
650	28	3,701	-.9	-15.4	25	15.4
600	28	4,336	-5.0	-18.0	25	17.1
550	28	5,015	-8.9	-23.6	25	19.3
500	28	5,746	-13.8	-29.8	25	19.3
450	28	6,538	-19.4	-32.3	25	20.8
400	28	7,403	-25.8	-38.0	25	24.4
350	28	8,359	-33.1	-45.2	26	27.4
300	28	9,421	-41.5	-50.6	26	30.3
250	27	10,640	-50.2		26	32.2
200	26	12,069	-57.0		25	40.0
175	25	12,913	-58.1		26	40.1
150	25	13,878	-61.1		25	39.9
125	25	15,000	-65.4		25	34.6
100	24	16,341	-69.6		25	30.2
80	24	17,665	-71.0		25	22.8
70	21	18,461	-70.8		26	18.0
60	21	19,381	-68.0		26	12.4
50	21	20,488	-64.6		27	10.4
40	19	21,856	-62.1		27	11.5
30	17	23,647	-59.6		27	13.0
25	17	24,768	-59.3		26	14.2
20	15	26,212	-56.7		27	17.5
15	14	28,052	-53.1		26	16.6
10	5	30,643	-46.3			

* BROWNSVILLE, TX
1014 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	7	14.8	11.8	15	.6
1000	28	128	16.8	12.8	16	1.9
950	28	565	15.2	8.9	17	5.6
900	28	1,024	14.4	2.4	20	6.3
850	28	1,505	13.0	-3.2	21	6.4
800	28	2,013	11.1	-4.8	23	6.2
750	28	2,549	8.6	-9.1	25	7.6
700	28	3,116	5.6	-11.3	26	9.7
650	28	3,717	1.3	-14.8	26	11.0
600	28	4,356	-3.4	-18.1	26	12.9
550	28	5,038	-8.3	-22.9	26	14.9
500	28	5,770	-13.3	-28.3	25	18.4
450	28	6,565	-18.4	-32.1	25	21.1
400	28	7,433	-24.8	-36.3	25	24.3
350	28	8,392	-32.2	-42.5	25	28.3
300	27	9,453	-40.9	-47.5	25	33.0
250	27	10,670	-49.5		26	37.1
200	27	12,106	-56.7		25	39.4
175	26	12,948	-58.6		25	38.1
150	25	13,909	-61.5		25	36.6
125	25	15,028	-66.2		25	31.9
100	25	16,363	-71.3		25	23.9
80	25	17,673	-73.3		25	15.5
70	25	18,458	-71.5		25	10.9
60	25	19,377	-67.8		25	6.5
50	24	20,486	-64.3		24	4.6
40	24	21,861	-61.6		25	5.5
30	23	23,656	-59.1		26	7.6
25	23	24,802	-58.1		26	10.0
20	21	26,208	-57.2		27	14.9
15	17	28,041	-52.5		27	17.4
10	15	30,710	-44.9		27	23.7
7	7	33,117	-38.3			

BUFFALO, NY
990 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	27	218	-3.1	-5.3	24	2.2
950	27	542	-4.3	-7.4	24	5.2
900	27	966	-6.3	-9.3	25	8.0
850	27	1,412	-8.5	-12.2	26	10.0
800	27	1,882	-9.5	-16.0	27	11.6
750	27	2,379	-11.1	-18.0	27	14.2
700	27	2,907	-12.7	-21.1	27	17.3
650	27	3,471	-15.3	-25.1	27	19.4
600	27	4,071	-18.6	-27.5	27	21.2
550	27	4,716	-22.3	-31.3	27	23.7
500	27	5,410	-26.7	-36.9	27	27.1
450	27	6,163	-31.6	-40.5	27	30.4
400	27	6,987	-36.9	-44.5	27	32.4
350	27	7,902	-42.6	-46.4	26	37.4
300	27	8,927	-48.2		26	40.8
250	26	10,127	-53.0		26	45.5
200	26	11,558	-55.1		26	43.3
175	26	12,411	-54.9		27	37.9
150	26	13,398	-55.0		27	34.6
125	25	14,568	-56.2		26	30.3
100	25	15,979	-58.5		27	25.9
80	24	17,375	-59.3		27	23.4
70	23	18,200	-60.4		27	23.6
60	22	19,147	-61.1		27	20.9
50	22	20,280	-61.1		28	17.0
40	17	21,696	-60.2		28	13.6
30	17	23,492	-59.5		29	5.8
25	14	24,642	-59.0			
20	12	26,071	-58.4			
15	11	27,862	-57.3			
10	10	30,447	-52.0			

CAPE HATTERAS, NC
1016 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	4	9.0	5.8	33	1.5
1000	28	155	9.9	4.5	32	1.8
950	28	581	8.2	1.0	27	3.7
900	28	1,026	7.2	-3.0	26	8.5
850	28	1,496	5.7	-7.7	26	12.1
800	28	1,990	3.8	-10.0	26	14.0
750	28	2,512	1.2	-13.2	26	15.7
700	28	3,065	-1.7	-16.4	26	17.9
650	28	3,651	-5.1	-19.3	26	20.4
600	28	4,276	-8.4	-21.4	26	23.5
550	28	4,947	-12.3	-24.8	26	27.1
500	28	5,669	-16.8	-27.7	26	29.5
450	28	6,453	-21.7	-31.8	26	32.8
400	28	7,310	-27.9	-36.7	27	36.3
350	28	8,258	-34.8	-43.3	27	38.7
300	29	9,313	-43.2		27	43.5
250	28	10,516	-52.2		27	47.7
200	26	11,929	-58.7		27	50.8
175	26	12,767	-58.7		27	49.2
150	25	13,735	-59.0		27	46.1
125	24	14,868	-62.3		27	39.8
100	24	16,237	-65.2		27	33.8
80	24	17,590	-66.3		27	26.6
70	24	18,399	-66.3		27	22.1
60	23	19,332	-64.9		27	18.4
50	23	20,448	-63.9		27	16.2
40	23	21,821	-62.4		27	14.5
30	23	23,610	-59.8		28	12.3
25	20	24,759	-59.0		27	13.6
20	20	26,164	-57.4		27	17.0
15	17	27,997	-54.5		27	18.3
10	8	30,632	-47.8			

RAWINSONDE DATA

Average monthly values

FEBRUARY 1975

Standard pressure surface (mb.)	• CARIBOU, ME 988 MB						CENTREVILLE, AL 1001 MB						CHARLESTON, SC 1017 MB						CHATHAM, MA 1015 MB						CHIHUAHUA, MEXICO 857 MB					
					Resultant Wind						Resultant Wind						Resultant Wind						Resultant Wind						Resultant Wind	
	No. of observations	Dynamic height	Temperature	Dew Point †	Direction	Speed (m.p.h.)	No. of observations	Dynamic height	Temperature	Dew Point †	Direction	Speed (m.p.h.)	No. of observations	Dynamic height	Temperature	Dew Point †	Direction	Speed (m.p.h.)	No. of observations	Dynamic height	Temperature	Dew Point †	Direction	Speed (m.p.h.)	No. of observations	Dynamic height	Temperature	Dew Point †	Direction	Speed (m.p.h.)
SFC	28	191	-14.8	-19.3	25	2.2	28	140	7.4	4.9	27	.1	28	13	9.6	6.7	13	.3	28	16	-1.2	-4.8	27	2.0	28	1,428	5.2	-4.5	24	1.5
1000							18	171	6.4	2.5	07	.7	28	151	11.2	6.4	20	.6	27	137	-1.2	-6.4	27	2.9						
950	28	492	-12.4	-15.5	28	6.2	28	571	8.2	3.8	24	4.4	28	581	11.5	4.1	22	4.0	28	540	-2.8	-8.0	28	6.4						
900	28	904	-13.8	-17.2	29	7.8	28	1,018	7.8	1.2	25	9.2	28	1,032	10.3	1.3	23	7.2	28	907	-4.7	-11.2	28	8.6						
850	28	1,338	-14.8	-18.7	29	10.7	28	1,489	6.8	-5.4	25	11.9	28	1,507	8.3	-1.7	24	10.0	28	1,416	-6.1	-14.6	28	11.1	27	1,498	7.6	-4.9	24	1.7
800	28	1,796	-15.5	-21.1	29	12.5	28	1,985	4.7	-6.9	25	13.5	28	2,005	5.8	-5.7	25	11.7	28	1,890	-6.9	-16.3	28	14.4	28	1,996	7.7	-6.0	25	4.3
750	28	2,282	-16.8	-22.6	29	15.1	28	2,509	2.3	-10.8	25	15.5	28	2,531	3.3	-10.7	25	13.5	28	2,393	-8.4	-18.8	28	17.8	28	2,525	4.9	-9.7	25	7.4
700	28	2,800	-18.0	-26.7	28	17.6	28	3,064	-.8	-13.2	25	17.7	28	3,088	.4	-14.8	25	15.2	28	2,926	-10.8	-21.1	28	20.0	28	3,085	1.8	-14.3	25	10.4
650	28	3,352	-20.2	-28.1	29	19.7	28	3,652	-4.2	-16.2	25	19.8	28	3,679	-2.8	-17.1	26	18.2	28	3,494	-13.2	-23.9	28	22.4	28	3,679	-1.7	-17.9	26	12.5
600	28	3,942	-23.1	-30.4	28	23.0	28	4,279	-7.7	-21.6	26	21.6	28	4,309	-6.3	-19.9	26	20.7	28	4,100	-16.4	-27.0	28	25.2	28	4,311	-5.6	-21.3	27	12.0
550	28	4,574	-26.9	-33.2	28	25.5	28	4,952	-11.3	-26.0	26	23.1	28	4,984	-10.2	-23.9	26	23.5	28	4,750	-20.0	-30.8	28	28.4	28	4,987	-10.2	-24.6	27	12.6
500	28	5,255	-31.3	-36.4	28	24.8	28	5,676	-16.1	-30.4	26	24.6	28	5,712	-14.9	-26.1	26	26.0	28	5,450	-24.6	-35.0	28	31.4	29	5,715	-15.3	-28.6	27	14.4
450	28	5,995	-36.1	-39.9	28	27.5	28	6,461	-21.9	-34.3	26	26.5	28	6,501	-20.5	-30.6	26	28.1	28	6,209	-29.9	-39.8	27	34.7	28	6,502	-20.8	-32.6	27	17.2
400	28	6,803	-41.8	-42.7	28	31.0	28	7,317	-28.3	-38.9	26	28.8	28	7,362	-26.7	-36.2	26	30.5	28	7,039	-35.2	-44.2	27	39.5	28	7,362	-27.3	-38.2	26	19.7
350	27	7,696	-47.3		28	33.7	28	8,264	-35.2	-45.5	26	32.8	28	8,316	-33.8	-44.0	26	34.1	28	7,960	-41.6	-43.6	27	44.4	28	8,312	-34.7	-44.7	27	23.2
300	27	8,702	-51.6		27	36.2	28	9,317	-43.6		26	35.4	28	9,374	-42.5		26	36.4	28	8,988	-48.4		27	49.6	28	9,366	-43.2		26	26.8
250	27	9,880	-53.3		27	37.4	28	10,519	-52.2		26	39.3	28	10,581	-51.4		26	40.1	28	10,173	-53.6		27	53.5	28	10,572	-51.6		26	30.3
200	27	11,318	-52.9		27	38.4	28	11,941	-58.3		26	42.9	28	12,003	-58.8		26	45.2	28	11,599	-55.7		27	48.4	28	11,997	-57.5		27	30.4
175	26	12,176	-53.0		27	36.3	28	12,780	-58.7		26	42.2	27	12,838	-58.7		26	47.0	28	12,450	-55.3		27	44.5	28	12,838	-58.8		27	27.3
150	26	13,169	-53.6		27	34.5	28	13,747	-59.6		26	43.0	27	13,805	-59.8		26	44.6	28	13,433	-55.5		27	39.6	28	13,805	-59.6		27	27.9
125	26	14,340	-54.5		27	31.8	28	14,878	-63.4		26	38.1	27	14,934	-64.1		26	39.4	27	14,582	-57.6		27	36.1	28	14,935	-63.0		27	23.9
100	26	15,764	-56.1		27	28.2	28	16,236	-67.1		26	30.6	27	16,287	-67.7		26	31.0	27	15,983	-60.0		27	32.1	28	16,292	-66.5		27	20.4
80	25	17,180	-57.2		27	24.6	28	17,579	-68.1		26	21.4	26	17,623	-69.7		26	24.2	27	17,373	-61.0		27	27.7	24	17,648	-67.8		27	14.4
70	25	18,024	-57.9		27	23.8	26	18,378	-67.2		26	17.5	26	18,420	-68.4		26	18.6	27	18,202	-61.6		27	25.1	23	18,452	-68.2		27	10.3
60	25	18,995	-58.8		27	21.4	26	19,309	-66.5		27	15.5	25	19,352	-67.3		27	14.8	26	19,168	-61.4		27	22.5	20	19,378	-66.0		27	9.2
50	24	20,140	-59.0		27	19.9	26	20,420	-64.2		27	16.0	25	20,458	-65.0		27	12.9	26	20,299	-61.2		27	20.9	19	20,489	-63.6		27	8.0
40	22	21,576	-59.3		27	18.9	25	21,798	-62.5		27	12.0	24	21,829	-62.3		27	13.0	26	21,686	-60.9		27	19.1	18	21,873	-61.3		27	7.6
30	22	23,378	-59.2		27	16.4	25	23,581	-60.7		27	15.5	24	23,618	-59.6		27	14.6	24	23,484	-60.7		27	15.4	18	23,666	-59.3		26	10.2
25	21	24,532	-59.2		27	19.4	25	24,719	-59.4		27	17.7	24	24,762	-58.6		27	15.8	24	24,622	-59.7		27	16.7	17	24,815	-58.1		27	12.4
20	20	25,937	-58.2		27	14.9	25	26,122	-57.6		27	18.1	24	26,171	-56.8		27	15.9	21	26,030	-58.5		27	16.3	14	26,222	-56.7		27	12.1
15	19	27,736	-58.4		27	14.2	22	27,955	-54.9		27	20.7	23	28,008	-53.8		27	18.1	20	27,844	-57.0		27	18.8	10	28,057	-53.9			
10	10	30,308	-56.2				17	30,550	-48.7		27	24.3	17	30,664	-46.4		26	27.8	9	30,461	-52.9									
7	5	32,565	-53.0																											

Standard pressure surface (mb.)	• COLD BAY, AK 998 MB						DAYTON, OH 981 MB						DEL RIO, TX 979 MB						DENVER, CO 835 MB						DODGE CITY, KS 924 MB					
SFC	28	30	-4.7	-7.0	15	.6	28	299	-1.4	-5.2	26	.7	28	314	8.1	3.5	02	1.3	28	1,611	-5.2	-11.3	15	.2	28	791	-4.9	-7.0	35	2.4
1000	15	131	-2.2	-5.1	13	5.4																								
950	28	416	-5.9	-9.2	15	1.7	28	553	-1.8	-5.7	25	3.6	28	565	9.2	1.7	11	.7												
900	28	839	-7.3	-11.2	19	2.0	28	983	-3.1	-8.1	26	6.6	28	1,014	9.9	.9	23	3.1							28	1,000	-3.0	-8.4	34	4.0
850	28	1,283	-8.4	-13.2	20	2.8	28	1,435	-3.7	-11.5	27	9.0	28	1,490	10.5	-4.3	25	4.6							28	1,454	-1.6	-11.5	33	5.7
800	28	1,752	-9.6	-15.4	21	3.3	28	1,914	-4.0	-13.1	26	11.3	28	1,993	8.4	-7.2	27	6.3	28	1,945	-2.8	-14.1	31	2.2	28	1,938	-1.4	-12.6	32	5.5
750	28	2,249	-11.3	-19.4	22	4.9	28	2,422	-5.9	-15.9	26	13.6	28	2,524	5.5	-11.9	27	8.2	28	2,455	-4.5	-16.3	30	5.1	28	2,451	-3.2	-14.2	31	6.7
700	28	2,777	-13.5	-21.8	22	5.7	28	2,960	-8.5	-17.9	26	16.2	28	3,083	1.9	-15.2	27	10.8	28	2,995	-7.4	-20.1	30	8.2	28	2,994	-6.2	-18.5	29	8.3
650	28	3,337	-16.7	-24.6	22	6.7	28	3,532	-11.2	-22.4	26	18.8	28	3,678	-1.7	-18.1	26	12.7	28	3,568	-11.0	-22.8	30	8.7	28	3,570	-9.3	-22.7	29	10.0
600	28	3,934	-20.3	-28.5	23	7.0	28	4,143	-14.4	-24.6	26	20.9	28	4,309	-6.0	-21.8	26	13.9	28	4,179	-14.7	-25.7	30	11.1	28	4,185	-13.0	-26.6	27	11.2
550	28	4,574	-24.4	-33.4	23	7.7	28	4,797	-18.7	-28.2	26	22.5	28	4,985	-10.7	-25.4	26	15.6	28	4,833	-18.7	-30.0	30	13.1	28	4,842	-17.3	-29.8	27	14.4
500	28	5,262	-29.2	-37.3	24	8.5	28	5,501	-23.3	-32.2	26	25.5	28	5,710	-15.9	-29.9	25	17.8	28	5,536	-23.5	-35.3	30	12.8	28	5,550	-22.4	-34.3	27	16.8
450	28	6,006	-34.6	-40.8	24	8.9	28	6,265	-28.3	-38.6	26	28.8	28	6,496	-21.6	-35.1	26	20.0	28	6,298	-29.2	-40.6	29	13.3	28	6,315	-28.1	-39.5	27	19.3
400	28	6,819	-40.3	-45.1	23	8.8	28	7,099	-34.4	-41.3	26	33.4	28	7,353	-27.8	-39.7	26	22.7	28	7,129	-35.8	-44.7	29	14.2	28	7,149	-34.8	-44.0	27	23.1
350	28	7,720	-46.4		23	8.0	28	8,024	-40.5	-40.5	26	36.9	28	8,302	-34.7	-45.6	26	24.7	28	8,045	-43.2		29	16.4	28	8,071	-41.0	-45.5	27	28.2
300	28	8,730	-51.4		22	8.0	28	9,057	-46.9		26	41.6	28	9,357	-42.9	-46.9	26	30.2	28	9,065	-50.2		28	19.1	28	9,102	-47.8		26	31.8
250	28	9,907	-53.6		24	9.6	27	10,238	-53.2		26	42.6	28	10,563	-51.9		26	32.0	28	10,239	-55.4		28	23.1	28	10,286	-54.6		26	33.9
200	27	11,353	-50.7		24	9.1	25	11,649	-56.4		26	40.1	27	11,996	-57.8		26	36.0	28	11,661	-55.7		28	24.0	28	11,712	-55.0		26	33.1
175	27	12,226	-49.8		24	9.0	25	12,499	-55.7		26	37.3	27	12,837	-58.1		26	36.4	28	12,514	-54.7		28	22.1	28	12,566	-54.6		26	30.6
150	27	13,234	-49.7		24	9.6	25	13,481	-56.0		26	34.2	27	13,806	-59.8		26	32.4	27	13,500	-55.5		28	20.8	27	13,553	-55.5		27	30.9
125	26	14,415	-50.4		24	9.4	25	14,636	-58.1		27	29.9	27	14,935	-63.5		26	29.6	27	14,658	-57.3		28	19.7	27	14,710	-57.7		27	27.5
100	25	15,862	-51.0		24	9.8	24	16,029	-60.7		27	25.4	27	16,291	-67.5		25	24.8	26	16,062	-59.5		28	16.5	27	16,109	-60.5		27	23.3
80	25	17,311	-52.1		24	9.8	23	17,414	-61.5		27	23.3	27	17,629	-69.2		26	18.1	26	17,453	-61.3		28	12.9	26	17,437	-61.8		27	20.7
70	25	18,175	-52.2		24	8.7	23	18,241	-62.0		27	20.2	26	18,422	-68.2		26	14.1	25	18,283	-61.6		28	11.6	26	18,314	-61.8		27	15.3
60	25	19,171	-53.1		23	7.9	23	19,193	-62.5		27	18.7	25	19,351	-66.4		26	9.8	23	19,251	-61.4		28	9.0	26	19,266	-62.8		27	13.3
50	25	20,345	-53.6		23	6.4	23	20,317	-62.7		27	17.2	24	20,465	-64.2		26	8.6	23	20,383	-61.4		28	8.6	24	20,394	-61.9		28	9.3
40	25	21,776	-54.3		23	5.5	22	21,702	-62.3		28	16.0	21	21,838	-61.4		26	8.9	21	21,773	-60.9		29	7.3	24	21,775	-61.6		28	8.5
30	24	23,622	-53.2		23	4.4	22	23,483	-60.8		28	14.1	20	23,625	-59.4		27	10.7	17	23,561	-60.6		30	5.7	23	23,561	-60.8		28	10.1
25	22	24,802	-52.8		24	3.1	21	24,606	-60.8		28	13.1	19	24,770	-59.0		27	11.2	16	24,702	-60.3		30	6.2	21	24,697	-60.6		28	7.9
20	22	26,242	-53.1		25	2.7	19	26,017	-59.3		28	12.8	19	26,174	-57.3		27	14.0	16	26,092	-60.3		30	5.8	20	26,091	-59.5		29	9.2
15	15	28,088	-53.7		35	2.8	11	27,858	-56.3		27	14.0	17	28,014	-53.7		27	14.2	9	27,886	-58.2				17	27,888	-58.2		28	9.8
10	8	30,717	-56.0				5	30,375	-53.3																10	30,417	-53.7			

Standard pressure surface (mb.)	EL PASO, TX 881 MB						ELY, NV 807 MB						EMPALME, MEXICO 1015 MB						• FAIRBANKS, AK 994 MB						FLINT, MI 987 MB					
SFC	27	1,193	3.5	-5.2	26	.9	28	1,908	-5.8	-9.3	20	3.0	27	12	11.0	2.0	32	1.4	28	135	-22.4	-29.3	36	1.1	28	236	-4.3	-7.6	25	1.2
1000													27	134	14.9	1.4	34	2.4	13	241	-18.8	-23.1	06	1.5						
950													27	569	15.4	-1.7	35	3.8	28	474	-14.2	-20.5	08	3.5	28	534	-5.8	-8.1	27	2.8
900													27	1,026	13.3	-4.5	31	2.3	28	885	-13.3	-19.9	10	5.6	28	957	-7.1	-10.2	27	5.1
850	27	1,490	6.7	-9.5	28	2.7							27	1,504	10.5	-7.7	25	2.8	28	1,321	-12.6	-20.0	12	4.9	28	1,402	-8.1	-12.8	27	7.3
800	27	1,985	4.0	-10.8	27	5.5	26	1,986	-4.3	-9.3	20	2.4	27	2,007	8.6	-11.1	25	4.5	28	1,783	-13.3	-21.6	14	3.7	28	1,873	-8.7	-14.0	27	8.8
750	27	2,507	.8	-12.8	27	9.0	28	2,488	-5.0	-11.6	25	2.0	27	2,538	6.0	-13.9	26	5.7	28	2,273	-15.1	-23.7	16	3.8	28	2,372	-10.0	-16.3	27	11.0
700	27	3,058	-2.5	-17.0	27	11.4	28	3,027	-7.9	-14.7	28	5.3	27	3,099	2.5	-17.3	27	7.5	28	2,792	-18.0	-26.0	18	3.3	28	2,903	-12.0	-19.6	27	13.7
650	27	3,643	-5.7	-19.5	27	13.1	28	3,600	-11.1	-17.8	29	8.0	27	3,694	-.9	-19.4	27	8.5	28	3,343	-21.4	-28.8	21	2.9	28	3,467	-15.1	-24.2	27	15.8
600	27	4,266	-9.4	-22.9	27	14.3	28	4,212	-14.4	-22.5	29	10.0	27	4,328	-5.1	-23.2	27	10.5	28	3,929	-24.9	-32.5	23	2.7	28	4,068	-18.3	-28.3	27	17.7
550	27	4,932	-14.0	-26.7	27	15.2	28	4,866	-18.7	-26.4	29	11.4	27	5,005	-9.8	-26.9	27	12.4	28	4,556	-28.9	-34.9	24	3.9	28	4,713	-22.0	-32.8	27	20.8
500	27	5,649	-19.1	-30.9	27	15.9	28	5,570	-23.3	-31.3	29	13.9	27	5,733	-15.2	-32.0	27	14.3	28	5,232	-33.0	-38.6	26	3.9	28	5,408	-26.6	-37.4	27	24.1
450	27	6,425	-24.5	-36.8	27	18.0	28	6,333	-28.5	-34.9	28	16.9	27	6,520	-20.8	-35.6	27	17.4	28	5,965	-37.9	-41.1	26	5.9	28	6,161	-31.7	-41.3	27	26.4
400	27	7,272	-30.7	-43.1	27	21.2	28	7,166	-34.7	-42.0	28	18.7	27	7,380	-27.3	-40.6	27	20.1	28	6,768	-43.1	-44.5	26	7.1	28	6,984	-37.2	-47.1	26	30.0
350	27	8,210	-37.3	-48.9	27	23.8	28	8,089	-41.2	-45.8	28	21.0	27	8,331	-34.3	-45.6	27	23.9	28	7,660	-48.3		26	8.2	28	7,898	-43.1	-51.3	26	34.0
300	27	9,256	-44.7		27	27.0	28	9,117	-48.8		29	22.9	27	9,388	-42.6		27	30.0	28	8,662	-52.6		26	9.4	28	8,921	-48.8		26	39.3
250	27	10,454	-52.7		26	29.1	26	10,302	-55.6		29	25.2	26	10,596	-51.5		27	34.8	28	9,834	-54.3		27	9.8	28	10,106	-53.3		26	42.8
200	27	11,877	-57.5		27	31.2	25	11,724	-57.9		29	26.4	25	12,025	-57.7		27	36.1	28	11,270	-51.7		27	9.4	26	11,540	-55.1		26	40.9
175	27	12,721	-57.0		27	29.2	24	12,568	-56.5		29	24.9	25	12,866	-58.2		27	33.0	28	12,140	-50.5		27	10.2	26	12,395	-54.2		27	36.4
150	27	13,695	-58.3		27	29.4	24	13,547	-56.5		28	22.6	24	13,835	-59.8		27	29.4	28	13,146	-50.4		27	11.0	26	13,383	-54.9		27	34.1
125	27	14,834	-61.3		27	27.2	24	14,697	-58.7		29	19.9	24	14,964	-63.5		27	26.1	28	14,335	-50.8		27	11.3	26	14,545	-56.5		27	31.4
100	27	16,208	-64.3		27	21.9	23	16,085	-60.5		29	14.8	24	16,321	-67.1		26	19.5	28	15,787	-51.6		27	12.4	26	15,954	-58.4		27	28.2
80	27	17,568	-66.2		26	19.6	22	17,467	-61.8		29	9.6	24	17,661	-69.0		26	15.2	28	17,232	-52.3		27	12.7	25	17,360	-60.0		27	22.8
70	27	18,379	-65.0		27	12.3	20	18,293	-61.7		29	7.8	23	18,458	-68.1		27	12.5	28	18,096	-52.6		27	13.1	25	18,193	-60.3		27	21.6
60	27	19,320	-64.7		27	9.4	19	19,250	-62.6		29	7.2	23	19,389	-65.7		27	9.9	28	19,090	-53.6		27	13.3	24	19,162	-60.7		28	20.2
50	27	20,435	-64.2		27	8.0	14	20,372	-62.6		30	6.6	23	20,504	-63.4		27	6.1	28	20,260	-54.3		27	13.0	22	20,307	-60.6		28	16.4
40	25	21,806	-61.7		27	8.2	14	21,749	-62.2		32	4.7	21	21,887	-60.5		27	5.8	27	21,682	-54.4		27	13.9	20	21,697	-60.8		28	14.6
30	23	23,591	-59.3		27	9.9	13	23,535	-61.0		31	3.[illegible]	18	23,685	-59.1		26	9.6	26	23,513	-55.7		28	14.7	19	23,505	-60.1		28	12.5
25	23	24,733	-59.1		27	10.1	13	24,669	-60.7		32	4.6	18	24,834	-57.3		27	11.4	24	24,676	-56.2		28	15.2	19	24,646	-59.2		29	11.1
20	22	26,132	-58.2		27	11.9	11	26,088	-58.9		33	4.2	17	26,246	-56.9		27	13.6	23	26,102	-57.8		29	17.2	17	26,037	-58.8		29	10.7
15	18	27,976	-54.9		27	14.9	8	27,883	-57.4				13	28,097	-53.1		27	18.6	12	27,907	-58.0		29	19.9	12	27,902	-56.3		30	10.4
10	7	30,621	-50.6																						6	30,566	-53.0			

RAWINSONDE DATA

Average monthly values

FEBRUARY 1975

GLASGOW, MT
934 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	28	696	-13.5	-17.9	34	1.5
1000						
950						
900	28	940	-11.5	-14.9	32	9.6
850	28	1,420	-9.8	-15.6	31	7.6
800	28	1,869	-9.2	-15.8	31	9.8
750	28	2,347	-10.7	-17.5	30	11.5
700	28	2,915	-13.2	-21.1	30	12.7
650	28	3,477	-16.2	-23.9	30	12.4
600	28	4,075	-19.9	-28.3	29	13.9
550	28	4,715	-24.1	-32.4	29	15.5
500	28	5,444	-28.6	-36.9	29	17.9
450	28	6,151	-33.7	-42.0	30	18.4
400	28	6,947	-39.9	-45.3	30	20.4
350	28	7,869	-46.5		29	22.6
300	28	8,875	-52.9		29	23.3
250	28	10,040	-56.6		29	24.5
200	28	11,461	-54.1		29	21.3
175	28	12,321	-52.4		29	20.1
150	28	13,319	-52.3		29	19.1
125	28	14,495	-54.2		29	18.3
100	28	15,901	-55.0		29	16.4
80	27	17,343	-56.7		30	14.7
70	27	18,188	-57.6		30	13.6
60	27	[illegible]	-58.5		30	11.8
50	28	20,307	-58.4		31	11.1
40	28	21,710	-58.8		31	10.3
30	28	23,513	-59.3		32	9.9
25	24	24,645	-59.5		33	[illegible]
20	18	26,059	-59.5		32	8.6
15	15	27,871	-59.2		32	10.8
10	5	30,565	-55.8			

GRAND JUNCTION, CO
852 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	28	1,472	-3.1	-7.2	13	1.7
1000						
950						
900						
850	19	1,520	-2.5	[illegible]	13	2.4
800	28	1,964	-4.4	-11.4	15	2.6
750	28	2,480	-6.3	-12.6	22	1.4
700	28	3,018	-8.6	-14.0	26	4.9
650	28	3,594	-11.8	-18.8	26	7.2
600	28	4,199	-15.2	-22.7	28	8.7
550	28	4,852	-19.6	-27.8	28	10.7
500	28	5,555	-23.9	-32.0	28	12.4
450	28	6,316	-29.2	-37.5	28	15.6
400	28	7,147	-35.4	-43.4	28	18.2
350	28	8,064	-42.4	-47.6	29	21.1
300	28	9,088	-49.5		29	23.3
250	28	10,265	-55.4		29	25.2
200	28	11,685	-55.9		28	24.7
175	28	12,537	-55.2		28	22.9
150	28	13,521	-55.6		28	20.6
125	28	14,679	-57.4		28	19.7
100	28	16,080	-60.4		28	16.8
80	28	17,464	-61.8		28	13.5
70	28	18,291	-61.8		28	11.7
60	27	19,252	-61.5		28	8.8
50	27	20,479	-61.9		28	6.6
40	23	21,765	-61.4		29	6.0
30	17	23,572	-61.3		31	3.7
25	16	24,709	-60.0		31	4.4
20	14	26,118	-58.5		30	5.3

GREAT FALLS, MT
887 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	29	1,118	-12.3	-15.5	24	4.1
1000						
950						
900						
850	28	1,443	-9.3	-15.6	25	4.4
800	28	1,913	-8.2	-15.2	27	4.9
750	28	2,413	-9.6	-16.9	28	[illegible]
700	28	2,943	-12.1	-18.5	28	[illegible]
650	28	3,507	-15.0	-22.1	29	12.4
600	28	4,109	-18.3	-25.5	29	13.5
550	28	4,753	-22.5	-30.5	29	14.4
500	28	5,447	-27.3	-35.4	29	15.0
450	28	6,197	-32.6	-40.3	29	16.8
400	27	7,019	-39.2	-44.1	28	18.9
350	27	7,924	-46.0		29	20.9
300	27	8,931	-52.9		29	22.9
250	27	10,093	-57.2		29	22.9
200	27	11,510	-54.3		29	21.3
175	27	12,369	-52.7		29	20.0
150	27	13,364	-53.0		29	18.4
125	26	14,543	[illegible]		29	16.6
100	26	15,966	-56.3		29	14.9
80	27	17,375	-57.2		29	11.4
70	27	18,220	-57.8		30	11.1
60	27	19,189	-59.1		30	10.2
50	22	20,332	-59.2		30	9.8
40	20	21,748	-58.7		32	7.8
30	20	23,554	-59.0		33	7.4
25	18	24,701	-59.0		33	7.0
20	16	26,125	-58.3		33	7.0
15	10	27,996	-56.3			

GREEN BAY, WI
99[illegible] MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	27	210	-9.1	-11.6	28	2.2
1000						
950	27	530	-8.1	-10.5	30	3.8
900	27	948	-9.6	-13.6	29	5.2
850	27	1,390	-9.7	-15.8	29	6.4
800	27	1,857	-10.5	-19.1	29	7.6
750	27	2,353	[illegible]	[illegible]	29	9.7
700	27	2,879	-14.1	-22.9	29	12.0
650	27	3,439	-16.4	-26.6	29	13.9
600	27	4,037	-19.9	-29.5	28	16.0
550	27	4,678	-23.9	-33.0	28	17.8
500	27	5,368	-28.0	-38.1	28	20.3
450	27	6,117	-33.0	-41.8	28	21.9
400	27	6,939	-39.2	-47.8	28	24.3
350	27	7,840	-45.7		26	26.0
300	27	8,851	-51.5		27	30.1
250	27	10,025	-54.4		27	31.1
200	27	11,459	-52.8		27	28.9
175	27	12,321	-52.6		27	28.5
150	27	13,316	-53.6		27	25.9
125	27	14,484	-55.0		28	24.1
100	27	15,901	-57.8		27	21.9
80	27	17,304	-59.[illegible]		28	20.6
70	26	18,138	-59.5		26	19.8
60	26	19,101	-60.[illegible]		28	17.6
50	25	20,242	-60.5		28	16.6
40	25	21,632	-60.7		29	15.3
30	22	23,432	-60.[illegible]		29	13.3
25	21	24,575	-60.[illegible]		29	10.4
20	19	25,990	-59.2		29	12.3
15	16	27,449	-57.5		30	10.1
10	7	30,447	-54.2			

GREENSBORO, NC
9[illegible]0 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	28	275	3.8	1.5	3[illegible]	.6
1000						
950	28	574	-.6	-2.5	[illegible]	3.[illegible]
900	28	1,015	-.4	-4.5	[illegible]	8.[illegible]
850	28	1,480	3.3	-6.5	25	11.4
800	28	1,972	2.2	-7.6	26	13.7
750	28	2,491	-.3	-11.1	26	16.4
700	28	3,040	-3.1	-12.9	26	18.6
650	28	3,624	-6.1	-15.2	26	21.7
600	28	4,246	-9.6	-19.1	26	23.1
550	28	4,913	-13.0	-22.5	26	25.4
500	28	5,632	-18.2	-25.7	26	29.0
450	28	6,412	-23.3	-31.4	26	32.8
400	28	7,263	-29.4	-37.4	26	37.0
350	28	8,207	-35.8	-42.4	26	41.1
300	28	9,258	-43.9		26	43.2
250	28	10,459	-52.5		26	48.4
200	28	11,877	-58.9		26	48.3
175	28	12,716	-58.1		27	45.3
150	28	13,690	-57.9		27	45.4
125	28	14,833	-60.5		27	39.2
100	28	16,210	-63.8		27	32.3
80	26	17,568	-65.3		27	25.5
70	25	18,381	-64.8		27	[illegible]
60	25	19,324	-64.1		27	[illegible]
50	25	20,444	-63.1		28	[illegible]
40	24	21,819	-61.5		28	[illegible]
30	23	23,517	-59.7		29	[illegible]
25	22	24,759	-59.2		28	[illegible]
20	21	26,158	-57.7		27	12.3
15	15	27,968	-55.0		27	17.9
10	5	30,557	-48.0			

GUADALUPE IS., MEXICO
1017 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	28	23	13.1	8.8	33	3.7
1000	28	165	12.5	7.1	33	9.1
950	28	594	10.5	2.7	32	4.6
900	28	1,044	9.9	-5.2	33	3.9
850	28	1,518	9.6	-10.3	32	4.6
800	28	[illegible]	7.9	-12.4	31	4.8
750	28	2,549	5.5	-15.9	30	[illegible]
700	28	3,109	2.3	-17.7	29	4.8
650	28	3,704	-1.1	-20.8	28	7.5
600	28	4,338	-5.4	-23.9	28	8.9
550	28	5,015	-10.0	-27.[illegible]	28	9.5
500	28	5,742	-15.4	-30.8	28	11.1
450	28	6,529	-20.9	-35.9	28	14.[illegible]
400	28	7,388	-27.7	-42.0	27	14.6
350	28	8,336	-34.9	-47.2	27	17.6
300	28	9,390	-43.3		27	21.1
250	28	10,594	-52.1		27	28.3
200	28	12,016	-58.1		27	28.6
175	28	12,854	-59.5		27	27.[illegible]
150	28	13,819	-60.3		27	24.1
125	27	14,948	-63.5		27	19.8
100	27	16,306	-66.8		27	16.2
80	27	17,647	-68.2		26	11.0
70	27	18,451	-67.3		26	8.3
60	27	19,384	-65.6		25	7.4
50	27	20,502	-63.4		26	7.4
40	22	21,879	-61.3		27	6.5
30	22	23,675	-59.6		26	9.6
25	21	24,822	-58.3		24	9.8
20	19	26,208	-56.9		25	12.5
15	9	28,062	-53.6			
10						
7						

GUAM, MARIANA IS.
100[illegible] MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	28	111	24.0	21.2	08	3.5
1000	16	117	24.3	20.7	08	4.1
950	28	558	21.9	18.8	08	8.5
900	28	1,027	19.1	13.9	08	9.3
850	28	1,517	16.3	9.9	08	8.5
800	28	2,032	14.6	4.6	08	7.3
750	28	2,576	12.7	-3.1	08	5.7
700	28	3,152	10.2	-8.2	08	3.8
650	28	3,765	7.1	-12.3	07	2.1
600	28	4,418	3.5	-15.6	07	1.7
550	28	5,119	-.4	-19.9	06	.9
500	28	5,875	-4.6	-24.4	03	1.3
450	26	6,498	-9.8	-29.0	02	2.1
400	25	7,596	-15.8	-33.8	35	2.9
350	24	8,591	-22.8	-39.7	33	3.4
300	24	9,690	-31.7	-47.0	31	3.2
250	23	10,961	-41.7		24	4.2
200	23	12,434	-53.9		22	6.6
175	22	13,279	-60.7		22	7.2
150	21	14,220	-68.5		21	7.4
125	21	15,292	-76.3		19	6.3
100	19	16,556	-83.4		15	5.7
80	19	17,799	-82.[illegible]		10	4.3
70	19	18,554	-77.9		09	5.[illegible]
60	19	19,448	-72.5		09	6.2
50	18	20,538	-66.2		10	9.2
40	18	21,909	-62.7		10	14.0
30	17	23,703	-57.2		09	14.9
25	17	24,861	-55.3		09	[illegible]
20	17	26,299	-50.9		30	.6
15	16	28,188	-46.0		28	9.1
10	8	30,887	-43.4			

HILO, HI
1016 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	28	10	19.8	17.1	20	.5
1000	28	150	20.0	16.2	07	.5
950	28	592	17.2	14.2	07	1.7
900	28	1,052	14.2	11.6	07	1.3
850	28	1,533	11.3	8.2	07	1.1
800	28	2,038	9.3	2.0	05	.8
750	28	2,572	7.2	-2.2	05	.9
700	28	3,137	4.4	-6.6	33	1.1
650	28	3,736	1.6	-10.6	32	2.2
600	28	4,379	-2.0	-14.7	30	3.2
550	28	5,065	-6.1	-19.8	30	3.6
500	28	5,805	-10.7	-25.6	30	4.7
450	28	6,607	-16.3	-30.7	28	6.3
400	28	7,482	-22.6	-36.2	29	8.3
350	28	8,452	-29.3	-40.5	28	11.0
300	28	9,533	-36.9	-46.2	28	16.0
250	28	10,872	-45.3		28	20.1
200	28	12,232	-54.[illegible]		29	24.5
175	27	13,074	-59.9		28	25.6
150	27	14,026	-64.7		29	21.6
125	27	15,126	-69.8		28	16.3
100	26	16,434	-74.9		28	11.8
80	23	17,728	-76.2		29	5.6
70	21	18,503	-73.5		30	3.0
60	17	19,413	-69.8		33	.9
50	17	20,516	-64.7		05	.8
40	17	21,891	-60.7		13	.4
30	17	23,697	-57.5		30	1.0
25	17	24,853	-56.3		28	2.4
20	16	26,276	-53.9		30	3.5
15	15	28,139	-49.9		26	7.9
10	8	30,832	-45.7			

HUNTINGTON, WV
987 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	27	246	1.2	-2.4	26	1.0
1000						
950	27	554	1.9	-2.6	24	3.8
900	27	990	1.2	-5.5	25	7.7
850	27	1,448	-.3	-6.8	25	10.1
800	27	1,933	-2.0	-9.2	25	12.9
750	27	2,444	-3.9	-13.0	26	15.3
700	27	2,984	-6.5	-15.0	26	17.2
650	27	3,563	-9.2	-18.3	26	20.3
600	27	4,178	-13.0	-21.5	26	23.5
550	27	4,836	-17.0	-27.4	26	26.1
500	27	5,545	-21.5	-32.4	26	29.8
450	27	6,315	-26.1	-35.7	26	33.8
400	26	7,159	-31.9	-40.8	26	38.5
350	26	8,093	-38.3	-44.9	26	42.1
300	26	9,135	-45.4		26	46.4
250	26	10,333	-51.9		26	48.5
200	26	11,760	-57.0		26	47.2
175	23	12,584	-56.0		26	43.9
150	22	13,573	-56.3		26	39.5
125	22	14,727	-58.0		26	34.1
100	20	16,119	-60.8		26	29.5
80	19	17,493	-62.7		26	24.1
70	18	18,307	-63.2		27	23.0
60	17	19,256	-62.4		27	19.5
50	16	20,384	-61.8		27	16.3
40	15	21,762	-61.5		28	14.2
30	13	23,573	-59.8		27	16.7
25	11	24,691	-58.3		28	16.4
20	11	26,096	-57.6		28	15.7
15	9	27,905	-56.6			

INTERNATIONAL FALLS, MN
972 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	28	359	-16.2	-21.5	29	1.4
1000						
950	27	540	-14.2	-15.9	28	2.2
900	28	944	-13.[illegible]	-16.2	29	5.[illegible]
850	29	1,380	-13.4	-17.4	30	6.5
800	29	1,842	-14.1	-20.1	31	7.2
750	29	2,330	-14.9	-22.3	30	9.[illegible]
700	28	2,850	-16.8	-23.8	30	[illegible]
650	28	3,404	-19.4	-27.[illegible]	30	11.[illegible]
600	28	3,996	-22.5	-31.0	30	12.[illegible]
550	28	4,630	-25.5	-34.2	30	13.5
500	28	5,312	-31.0	-38.6	29	14.9
450	28	6,052	-36.0	-42.4	29	16.4
400	29	6,860	-41.7	-45.3	29	17.4
350	28	7,757	-47.5		29	18.6
300	29	8,760	-52.7		28	20.7
250	28	9,929	-55.6		28	21.[illegible]
200	28	11,359	-51.9		28	22.2
175	29	12,203	-52.6		28	21.7
150	29	13,201	-52.6		28	23.[illegible]
125	27	14,384	-54.0		28	21.[illegible]
100	26	15,809	-56.1		28	19.8
80	25	17,272	-57.7		29	18.6
70	26	18,064	-58.2		29	17.7
60	26	19,033	-58.8		29	16.[illegible]
50	25	20,179	-59.3		30	14.[illegible]
40	25	21,575	-59.7		30	15.7
30	22	23,405	-59.6		31	11.8
25	21	24,542	-59.3		31	11.2
20	20	25,953	-59.3		31	11.1
15	18	27,748	-59.0		31	11.7
10	10	30,405	-56.5			
7	5	32,732	-52.8			

JACKSON, MS
1005 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	28	100	8.4	6.5	29	.2
1000	28	151	7.4	4.9	30	.6
950	28	557	8.7	4.4	23	5.0
900	28	1,015	8.7	.7	24	8.5
850	28	1,487	7.6	-3.1	25	10.5
800	28	1,985	5.0	-5.9	25	12.2
750	28	2,509	2.4	-8.6	25	14.7
700	28	3,064	-.4	-13.3	25	16.5
650	28	3,654	-3.2	-17.7	25	18.3
600	28	4,283	-7.0	-21.7	25	19.6
550	28	4,956	-11.4	-26.2	25	21.6
500	28	5,681	-16.4	-30.7	25	23.6
450	28	6,465	-21.8	-34.6	25	25.8
400	28	7,321	-27.9	-38.7	25	27.[illegible]
350	28	8,270	-34.8	-46.6	25	32.0
300	27	9,325	-42.9	-50.5	25	36.5
250	28	10,530	-51.5		25	40.5
200	26	11,961	-57.6		25	42.6
175	26	12,803	-57.6		25	43.7
150	25	13,775	-58.7		25	40.4
125	25	14,938	-62.7		25	38.8
100	25	16,270	-66.5		26	26.1
80	25	17,619	-67.2		26	23.1
70	25	18,424	-67.6		26	18.7
60	24	19,355	-65.5		26	12.6
50	22	20,446	-63.8		27	12.8
40	22	21,840	-62.4		27	12.7
30	22	23,603	-60.3		27	11.5
25	19	24,759	-59.4		27	14.8
20	19	26,161	-57.6		27	15.7
15	18	27,939	-54.7		27	16.4
10	7	30,655	-47.6			
7						

JOHN F. KENNEDY INT. AP NY
1017 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	26	3	1.1	-5.7	29	2.5
1000	25	140	.9	-6.9	29	2.[illegible]
950	26	549	-1.4	-6.9	30	3.[illegible]
900	26	979	-2.7	-8.2	29	5.8
850	26	1,432	-3.4	-11.8	28	9.4
800	26	1,911	-4.6	-14.3	28	11.4
750	26	2,418	-6.1	-17.1	27	14.6
700	26	2,956	-8.4	-19.4	27	18.5
650	26	3,526	-10.9	-21.5	27	21.1
600	26	4,140	-14.1	-24.7	27	24.0
550	26	4,794	-18.4	-27.8	27	26.1
500	26	5,499	-23.0	-31.8	27	29.7
450	26	6,263	-28.3	-37.8	27	34.1
400	26	[illegible]	-34.1	-41.0	27	39.[illegible]
350	26	8,023	[illegible]	-44.0	27	44.5
300	26	[illegible]	-47.2		27	51.5
250	26	10,245	-53.7		27	57.0
200	25	11,567	[illegible]		27	55.7
175	23	12,505	-56.2		28	52.1
150	23	13,485	-56.5		28	46.5
125	23	14,638	-58.4		27	41.1
100	23	16,035	-60.3		27	36.7
80	23	17,421	-61.6		27	29.9
70	23	18,247	-60.2		27	27.3
60	22	19,191	-60.2		28	26.5
50	22	20,319	-60.4		28	22.8
40	21	21,697	-60.9		28	22.0
30	21	23,485	-60.4		28	21.3
25	20	24,624	-59.1		28	20.8
20	20	26,026	-57.4		27	20.5
15	17	27,867	-55.6		27	20.5
10	7	30,430	-51.4			

JOHNSTON IS., PACIFIC AREA
1015 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	28	3	24.1	19.7	08	6.9
1000	28	132	22.9	18.4	07	7.4
950	28	577	19.2	16.5	07	7.9
900	28	1,041	15.9	13.3	08	7.9
850	28	1,525	13.0	8.3	09	7.5
800	28	2,034	11.5	1.1	09	6.5
750	28	2,572	10.0	-5.6	08	5.5
700	28	3,143	8.0	-12.4	08	4.7
650	28	3,751	5.0	-15.3	06	4.6
600	28	4,399	1.1	-18.5	04	4.0
550	28	5,093	-3.2	-21.6	03	4.0
500	28	5,840	-8.3	-26.8	01	[illegible]
450	28	6,649	-14.3	-31.4	35	4.7
400	28	7,531	-20.6	-35.6	33	7.8
350	28	8,508	-27.7	-41.7	31	8.9
300	28	9,596	-35.0	-47.7	30	10.4
250	28	10,846	-43.2		29	14.2
200	28	12,314	-53.6		30	17.7
175	28	13,162	-59.3		30	17.8
150	28	14,114	-65.5		30	16.5
125	28	15,205	-72.1		30	12.1
100	28	16,497	-78.1		30	6.9
80	28	17,763	-79.3		33	1.5
70	28	18,527	-75.5		08	1.[illegible]
60	27	19,434	-69.9		[illegible]	3.[illegible]
50	26	20,537	-64.5		11	4.[illegible]
40	26	21,911	-61.2		09	6.1
30	25	23,722	-57.0		08	7.5
25	24	24,881	-55.5		09	6.3
20	24	26,315	-51.7		32	.6
15	22	28,205	-47.3		27	7.6
10	17	30,936	-43.3		26	12.3
7	8	33,364	-39.3			

KEY WEST, FL
1017 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	27	3	22.4	18.8	11	.4
1000	27	153	21.8	18.3	11	1.5
950	27	597	18.6	15.3	16	1.7
900	27	1,059	15.8	13.6	20	2.5
850	27	1,543	13.0	6.7	22	3.3
800	27	2,051	10.4	.4	23	4.1
750	27	2,587	8.1	-5.4	24	5.1
700	27	3,153	5.4	-11.2	25	6.5
650	27	3,755	2.0	-14.9	25	7.8
600	27	4,398	-.7	-18.9	25	10.1
550	27	5,087	-5.0	-22.8	25	11.8
500	27	5,829	-10.1	-27.3	26	12.7
450	27	6,632	-16.1	-31.2	26	14.5
400	27	7,507	-23.1	-37.1	26	16.5
350	27	8,475	-30.1	-43.5	25	19.8
300	27	9,551	-38.4	-51.4	25	22.8
250	26	10,783	-47.5		25	26.0
200	25	12,232	-55.5		26	29.1
175	25	13,077	-58.8		26	31.3
150	25	14,037	-62.3		26	27.1
125	24	15,148	-68.2		26	21.8
100	23	16,471	-73.8		25	15.7
80	22	17,761	-76.1		24	8.4
70	22	18,534	-75.5		24	5.9
60	22	19,437	-70.8		23	2.[illegible]
50	22	20,534	-64.3		32	1.4
40	22	21,916	-59.7		32	4.[illegible]
30	21	23,728	-56.7		27	4.5
25	19	24,889	-55.4		27	6.[illegible]
20	18	26,311	-53.5		27	8.3
15	13	28,190	-49.4		26	14.2
10	8	30,867	-43.5			

KING SALMON, AK
1002 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	28	15	-16.2	-19.9	[illegible]	[illegible]
1000	16	147	[illegible]	[illegible]	02	3.[illegible]
950	28	425	[illegible]	[illegible]	[illegible]	[illegible]
900	28	842	[illegible]	-17.4	11	.5
850	28	1,284	-9.6	-19.3	22	[illegible]
800	28	1,752	-10.3	-20.7	[illegible]	[illegible]
750	28	2,247	-12.2	-22.6	22	[illegible]
700	28	[illegible]	-14.6	-26.0	24	[illegible]
650	28	3,331	-17.6	-29.[illegible]	23	[illegible]
600	28	3,926	[illegible]	-32.4	24	[illegible]
550	28	4,563	-25.2	-35.6	[illegible]	[illegible]
500	28	[illegible]	-29.8	-39.2	24	[illegible]
450	28	5,992	-34.7	-42.1	24	[illegible]
400	28	6,805	-40.3	-47.7	24	[illegible]
350	28	[illegible]	-46.4		[illegible]	[illegible]
300	27	[illegible]	-51.5		24	[illegible]
250	27	[illegible]	-53.6		[illegible]	[illegible]
200	27	11,343	-51.1		[illegible]	[illegible]
175	27	12,214	-49.5		[illegible]	[illegible]
150	27	13,224	-49.6		[illegible]	[illegible]
125	27	14,417	-50.4		[illegible]	[illegible]
100	27	15,872	-51.1		[illegible]	[illegible]
80	27	17,321	-51.9		[illegible]	[illegible]
70	27	[illegible]	-52.2		[illegible]	[illegible]
60	25	19,168	-52.8		[illegible]	[illegible]
50	24	[illegible]	-53.4		[illegible]	[illegible]
40	23	21,782	-53.4		[illegible]	[illegible]
30	[illegible]	[illegible]	-54.0		[illegible]	[illegible]
25	15	24,843	-54.0		[illegible]	[illegible]
20	13	[illegible]	-54.3		[illegible]	5.2
15	8	28,093	-58.0			

RAWINSONDE DATA

Average monthly values

FEBRUARY 1975

Standard pressure surface (mb)	+ KOROR, CAROLINE IS. 1008 MB						KOTZEBUE, AK 1012 MB						LAKE CHARLES, LA 1016 MB						LANDER, WY 826 MB						* LIHUE KAUAI, HI 1014 MB					
					Resultant Wind						Resultant Wind						Resultant Wind						Resultant Wind						Resultant Wind	
	No. of observations	Dynamic height	Temperature	Dew Point †	Direction	Speed (m p h)	No. of observations	Dynamic height	Temperature	Dew Point †	Direction	Speed (m p h)	No. of observations	Dynamic height	Temperature	Dew Point †	Direction	Speed (m p h)	No. of observations	Dynamic height	Temperature	Dew Point †	Direction	Speed (m p h)	No. of observations	Dynamic height	Temperature	Dew Point †	Direction	Speed (m p h)
SFC	28	30	27.1	23.4	06	2.9	27	5	-19.7	-24.5	10	4.0	28	5	10.4	8.8	03	.8	28	1,697	-9.3	-14.4	19	.8	28	36	20.4	16.7	04	2.6
1000	28	97	26.1	22.9	06	3.8	20	164	-16.5	-21.1	12	5.7	28	139	11.7	8.5	27	.4							28	158	20.7	15.5	05	3.9
950	28	549	22.7	20.7	07	7.1	27	480	-15.6	-19.5	12	4.0	28	569	11.4	4.7	24	3.5							28	599	17.1	13.8	05	5.3
900	28	1,019	19.8	16.4	08	8.5	27	880	-15.4	-19.3	12	3.5	28	1,021	10.6	.0	24	5.7							28	1,059	13.4	11.1	05	4.6
850	28	1,510	16.7	11.1	08	8.4	27	1,320	-15.4	-20.4	13	3.3	29	1,496	9.4	-4.4	25	7.5							28	1,538	10.6	4.3	06	3.4
800	28	2,026	15.2	5.1	08	7.9	27	1,777	-16.2	-21.8	14	3.1	28	1,997	7.3	-6.5	25	9.2	28	1,940	-6.0	-14.3	25	.7	28	2,044	9.8	-2.7	05	3.5
750	28	2,572	13.2	-.7	08	7.6	27	2,262	-17.7	-23.9	13	3.1	28	2,526	4.5	-11.3	25	10.7	28	2,445	-6.8	-16.5	29	3.8	28	2,578	6.1	-9.9	04	2.8
700	28	3,149	10.0	-4.5	08	7.2	27	2,777	-19.6	-26.5	16	2.7	28	3,084	1.6	-15.4	25	12.1	28	2,983	-8.7	-17.6	28	7.0	28	3,144	5.5	-15.0	01	2.5
650	28	3,762	6.9	-8.6	09	6.8	27	3,324	-22.3	-28.6	19	3.7	28	3,678	-1.6	-19.9	25	13.5	28	3,554	-12.0	-21.8	29	10.4	28	3,746	2.3	-17.6	33	2.9
600	28	4,415	3.1	-12.9	09	7.3	27	3,909	-25.6	-31.3	20	4.4	28	4,310	-5.5	-22.8	26	16.4	28	4,162	-15.7	-25.7	29	12.7	28	4,388	-1.7	-21.7	31	4.1
550	28	5,115	-.8	-14.9	09	7.4	27	4,535	-29.3	-34.0	20	6.6	28	4,987	-10.2	-25.3	25	17.6	28	4,812	-20.0	-29.3	29	13.0	28	5,074	-6.3	-25.4	30	5.4
500	28	5,870	-4.9	-20.0	09	8.7	27	5,210	-33.4	-37.3	21	7.7	28	5,714	-15.2	-30.4	25	19.2	28	5,512	-25.1	-34.3	29	13.9	28	5,812	-11.4	-29.0	30	6.9
450	28	6,692	-9.6	-25.4	09	10.3	27	5,943	-38.0	-39.7	22	8.6	28	6,502	-20.9	-34.7	25	21.4	28	6,269	-31.0	-39.8	29	14.9	28	6,612	-16.9	-33.7	30	9.2
400	27	7,592	-15.2	-31.3	09	10.4	27	6,745	-43.6	-45.6	22	9.2	28	7,362	-26.9	-39.5	25	25.1	28	7,093	-37.6	-46.1	29	16.7	28	7,486	-23.0	-39.0	31	11.4
350	27	8,590	-22.4	-37.0	09	8.4	27	7,634	-49.2		22	10.6	28	8,314	-34.0	-46.1	25	29.1	28	8,003	-44.7		28	18.0	28	8,454	-29.8	-44.2	30	14.4
300	27	9,700	-30.7	-43.3	10	6.9	27	8,631	-54.1		22	10.7	28	9,372	-42.0	-48.5	25	33.0	28	9,014	-52.5		28	20.5	28	9,532	-37.6	-48.4	29	16.7
250	27	10,967	-41.2		12	8.5	27	9,797	-55.3		23	11.5	28	10,582	-51.2		25	35.6	28	10,180	-56.7		28	26.1	28	10,768	-45.8		29	20.4
200	27	12,443	-53.6		13	10.8	27	11,229	-52.7		23	11.6	28	12,011	-56.6		25	40.7	28	11,596	-56.0		28	24.0	28	12,225	-54.3		29	24.5
175	27	13,288	-60.5		12	11.6	26	12,081	-51.3		23	12.4	28	12,856	-57.5		25	41.4	27	12,450	-54.5		28	22.2	28	13,072	-58.7		29	24.6
150	27	14,231	-68.2		13	14.0	26	13,084	-51.0		24	14.6	28	13,827	-58.9		25	39.8	27	13,438	-54.8		28	20.6	28	14,029	-63.7		29	22.5
125	27	15,305	-75.9		12	14.4	26	14,269	-51.5		23	15.4	28	14,959	-63.5		25	35.1	27	14,602	-55.7		28	18.0	28	15,133	-69.1		29	18.8
100	27	16,570	-82.4		11	16.8	24	15,745	-51.5		24	15.0	24	16,318	-67.1		25	27.4	27	16,014	-58.5		28	14.7	28	16,449	-74.0		30	12.4
80	27	17,819	-81.6		09	8.5	24	17,191	-52.4		24	15.7	24	17,656	-69.0		26	19.0	27	17,411	-60.0		28	12.0	27	17,744	-75.1		28	7.5
70	27	18,580	-75.3		08	6.4	24	18,054	-52.6		24	16.3	24	18,457	-67.9		25	15.2	27	18,246	-59.7		28	10.3	27	18,523	-72.7		27	4.7
60	27	19,485	-70.3		09	6.5	23	19,047	-53.3		25	17.8	22	19,394	-65.7		26	9.7	27	19,208	-60.4		28	8.9	26	19,435	-69.1		25	2.1
50	27	20,581	-66.2		09	12.5	22	20,244	-53.2		25	17.3	22	20,508	-63.6		26	10.2	27	20,343	-61.1		30	7.4	25	20,541	-64.6		28	1.3
40	27	21,945	-62.4		09	22.3	20	21,672	-54.1		26	16.7	22	21,886	-61.4		27	11.6	25	21,740	-60.4		30	5.6	25	21,916	-61.3		26	2.7
30	26	23,754	-54.4		09	22.8	16	23,488	-55.2		26	20.2	21	23,686	-59.5		27	12.3	25	23,533	-60.4		32	4.8	25	23,719	-58.1		27	4.6
25	25	24,934	-50.8		09	10.2	13	24,640	-56.2		26	20.7	20	24,830	-58.5		27	12.9	25	24,670	-60.0		32	4.7	25	24,872	-56.4		27	4.8
20	23	26,397	-47.7		26	7.1	9	26,014	-56.0				18	26,247	-57.1		28	14.6	22	26,078	-59.0		32	5.2	25	26,298	-54.0		27	4.8
15	15	28,306	-44.9		27	15.6							16	28,079	-54.2		27	16.9	14	27,949	-56.3		36	3.2	23	28,152	-51.5		27	8.7
10	6	31,059	-41.1										11	30,720	-47.7										15	30,818	-44.5		26	17.7

	LITTLE ROCK, AR 1008 MB						MCGRATH, AK 997 MB						+ MAJURO, MARSHALL IS. 1011 MB						* MEDFORD, OR 970 MB						MERIDA, MEXICO 1014 MB					
SFC	28	79	3.4	.2	34	1.2	27	103	-23.3	-26.5	03	.7	28	3	28.5	23.1	07	6.3	28	401	2.5	.4	17	.7	28	11	19.6	18.9	09	1.3
1000	26	148	3.9	.0	35	.9	13	221	-17.7	-19.8	08	1.8	28	97	26.6	21.4	07	8.1							28	131	21.4	19.7	11	4.0
950	28	560	3.9	-1.2	26	2.5	27	458	-16.0	-20.7	09	2.2	28	549	22.7	20.1	07	10.1	28	571	3.4	.1	18	.5	28	576	19.6	16.5	13	7.1
900	28	999	3.9	-3.6	25	5.3	27	867	-13.8	-20.4	11	4.4	28	1,019	19.8	16.3	07	9.0	28	1,010	2.5	-2.7	19	2.4	28	1,041	17.7	11.1	14	6.2
850	28	1,464	3.6	-4.7	26	7.3	27	1,303	-12.3	-20.9	13	4.2	28	1,511	16.8	12.8	08	8.0	28	1,470	.3	-5.3	22	4.4	28	1,529	15.5	6.0	15	4.7
800	28	1,956	2.4	-7.8	26	9.5	27	1,767	-11.9	-20.9	15	3.5	28	2,027	15.3	6.6	09	5.6	28	1,955	-2.4	-7.4	24	7.1	28	2,042	13.4	-.1	15	2.9
750	28	2,476	.2	-12.3	27	10.8	27	2,260	-14.0	-23.0	17	3.3	28	2,573	13.2	1.9	09	4.7	28	2,465	-5.1	-11.4	25	9.7	28	2,582	10.7	-4.2	18	2.2
700	28	3,026	-2.6	-16.4	27	14.3	27	2,781	-16.6	-24.5	19	4.0	28	3,150	10.1	-1.2	10	3.5	28	3,004	-7.8	-15.4	26	10.9	28	3,154	7.4	-9.4	20	2.1
650	28	3,611	-5.7	-20.2	27	16.8	27	3,335	-19.8	-27.1	19	4.5	28	3,764	7.3	-8.5	09	3.5	28	3,577	-11.4	-18.9	27	11.4	29	3,760	3.6	-13.6	22	2.4
600	28	4,233	-9.5	-23.0	27	19.7	27	3,925	-23.4	-31.3	20	5.1	28	4,419	4.0	-13.9	08	3.9	28	4,186	-15.3	-25.3	27	13.0	29	4,406	.6	-17.5	23	3.7
550	28	4,899	-13.9	-28.2	26	22.7	27	4,556	-27.7	-34.8	21	6.4	28	5,121	-.3	-17.4	08	4.2	28	4,839	-19.4	-28.7	28	14.5	28	5,100	-3.2	-22.3	26	5.2
500	28	5,616	-18.7	-32.7	26	25.8	27	5,235	-32.1	-38.4	21	6.7	28	5,876	-4.6	-22.8	09	5.0	28	5,541	-23.7	-32.9	28	17.2	28	5,846	-8.6	-27.2	25	7.5
450	28	6,393	-24.2	-35.1	26	29.8	27	5,972	-36.8	-40.3	22	7.1	28	6,698	-9.2	-27.6	07	5.0	28	6,303	-28.8	-37.3	28	17.9	28	6,654	-14.3	-32.1	25	8.9
400	28	7,241	-30.5	-40.6	26	32.7	27	6,778	-42.0	-43.5	22	7.4	28	7,600	-14.4	-32.0	02	4.7	28	7,136	-34.5	-43.3	27	19.7	27	7,537	-21.0	-37.5	25	11.1
350	28	8,179	-37.4	-45.9	26	35.6	27	7,675	-47.1		23	7.7	28	8,602	-21.2	-37.4	01	4.9	28	8,060	-40.9	-44.6	27	19.9	27	8,511	-26.4	-43.3	25	13.2
300	28	9,225	-44.9		26	38.2	27	8,681	-51.5		23	9.4	28	9,718	-29.6	-45.2	35	5.1	28	9,090	-48.4		27	22.3	26	9,595	-37.0	-50.8	25	17.0
250	28	10,422	-52.6		26	41.4	27	9,860	-53.3		24	9.8	28	10,992	-39.6	-53.5	34	4.7	28	10,269	-55.6		27	25.2	25	10,832	-46.1		25	18.2
200	28	11,846	-57.7		26	41.9	27	11,300	-51.1		24	9.2	28	12,478	-51.9		31	1.9	28	11,683	-57.2		27	23.7	25	12,285	-55.3		25	23.1
175	27	12,690	-56.7		26	40.0	27	12,170	-50.2		24	10.1	28	13,330	-58.7		33	1.2	28	12,530	-55.7		27	21.3	24	13,130	-58.8		25	22.7
150	26	13,669	-57.7		26	37.0	27	13,179	-49.5		24	11.1	28	14,281	-66.4		36	2.0	27	13,524	-55.5		28	18.8	23	14,090	-62.2		25	22.0
125	26	14,814	-60.5		26	34.0	27	14,371	-50.1		25	10.8	28	15,365	-73.9		01	4.4	27	14,683	-57.2		28	15.6	23	15,201	-68.3		25	18.1
100	25	16,190	-63.3		26	27.3	27	15,827	-51.1		25	10.0	28	16,644	-80.6		06	6.0	27	16,087	-59.2		28	13.5	23	16,515	-75.1		24	13.0
80	25	17,554	-65.1		26	21.6	27	17,276	-51.9		25	11.1	28	17,897	-80.4		08	7.6	27	17,480	-60.7		29	9.2	23	17,778	-77.8		20	4.6
70	24	18,368	-64.8		26	17.6	27	18,141	-52.3		25	10.9	28	18,660	-75.1		09	6.3	27	18,311	-61.0		29	7.6	23	18,565	-76.1		17	3.1
60	22	19,308	-64.4		27	14.7	26	19,134	-53.0		25	11.3	28	19,569	-69.5		09	6.7	27	19,269	-61.1		31	6.3	23	19,466	-70.5		11	4.3
50	21	20,430	-63.3		27	11.3	25	20,304	-53.2		25	11.0	28	20,669	-65.1		09	13.7	25	20,403	-61.3		32	4.1	22	20,565	-63.8		09	4.2
40	20	21,813	-61.9		27	10.6	22	21,742	-53.6		25	9.7	28	22,043	-60.8		09	21.7	25	21,791	-60.8		36	3.3	22	21,950	-59.1		10	2.5
30	18	23,607	-60.5		27	10.3	20	23,609	-54.0		27	10.0	26	23,864	-53.5		09	20.6	21	23,573	-60.2		36	4.2	21	23,769	-56.0		02	1.8
25	16	24,763	-58.8		28	11.1	15	24,770	-53.5		26	10.8	24	25,050	-49.4		09	7.5	17	24,718	-60.1		01	3.2	21	24,932	-54.5		35	1.0
20	15	26,176	-56.9		28	10.9	7	26,387	-52.6				24	26,522	-47.0		27	5.8	14	26,093	-59.4		36	3.8	20	26,370	-51.7		31	2.9
15	11	27,978	-55.1		28	13.8							20	28,433	-44.6		27	14.1	11	27,904	-59.5				19	28,259	-46.9		29	6.6
10	7	30,557	-50.2										7	31,167	-39.5										7	30,938	-41.5			
7																														

	MIAMI, FL 1018 MB						MIDLAND, TX 916 MB						MONTERREY, MEXICO 962 MB						MONETT, MO 964 MB						NASHVILLE, TN 996 MB					
SFC	28	4	19.5	16.9	14	.8	28	874	2.8	-1.5	31	1.1	24	423	10.9	5.5	32	1.6	28	438	-1.7	-3.6	04	.6	29	180	3.3	1.1	19	.1
1000	28	158	21.0	17.0	16	2.8																			9	197	-.2	-2.6		
950	28	601	18.1	13.9	17	4.7							24	559	13.2	5.7	32	1.5	28	556	-1.1	-5.0	04	.3	29	562	3.3	-.6	22	3.5
900	28	1,063	15.3	8.2	19	3.4	28	1,012	5.0	-2.6	28	1.4	24	1,015	13.8	2.3	26	2.5	28	988	-.1	-5.3	26	3.3	28	1,001	2.9	-2.0	24	6.0
850	28	1,545	12.3	4.9	23	3.3	28	1,482	6.7	-6.7	27	6.3	24	1,496	13.2	-1.3	24	2.9	28	1,448	1.1	-6.6	28	6.6	28	1,463	1.8	-5.3	25	8.4
800	28	2,052	10.1	-2.8	24	4.7	28	1,978	5.2	-10.0	27	8.8	24	2,005	11.9	-5.8	26	4.0	28	1,934	-.4	-9.3	28	7.6	28	1,951	.2	-9.5	25	10.6
750	28	2,587	8.2	-7.0	24	6.0	28	2,503	2.2	-13.0	27	11.4	24	2,542	9.1	-9.2	26	6.5	28	2,449	-1.9	-11.6	28	9.2	28	2,467	-1.7	-12.7	25	12.8
700	28	3,154	5.5	-12.2	25	6.7	28	3,056	-1.3	-14.2	26	13.6	24	3,110	5.5	-12.5	26	9.0	28	2,995	-5.0	-14.3	28	11.2	28	3,013	-4.4	-15.4	25	16.0
650	28	3,756	2.5	-15.3	25	8.0	28	3,643	-5.0	-18.7	26	15.6	24	3,711	1.1	-15.5	26	10.8	28	3,574	-8.5	-17.0	27	13.8	28	3,594	-7.2	-18.5	26	19.5
600	28	4,399	-.9	-19.5	26	10.5	28	4,268	-8.5	-21.9	26	17.3	24	4,349	-3.7	-18.1	26	11.8	28	4,190	-12.4	-22.0	27	16.3	28	4,215	-10.2	-23.0	26	22.8
550	28	5,088	-5.3	-23.7	26	12.8	28	4,937	-13.0	-25.2	26	19.2	24	5,030	-8.4	-23.0	25	12.4	28	4,850	-16.5	-27.6	26	20.0	28	4,881	-14.2	-26.8	26	25.8
500	28	5,829	-10.2	-28.4	26	14.9	28	5,657	-17.8	-30.2	26	21.6	24	5,762	-13.4	-28.3	26	15.7	28	5,560	-21.5	-31.2	26	23.1	29	5,597	-19.1	-31.1	25	29.2
450	28	6,631	-16.2	-31.5	26	16.2	28	6,437	-23.4	-36.1	26	23.0	24	6,556	-18.8	-33.2	25	18.1	28	6,329	-26.5	-35.9	26	26.5	27	6,369	-24.7	-35.2	25	33.9
400	28	7,506	-22.9	-37.1	26	17.9	28	7,288	-29.6	-42.1	26	25.8	24	7,422	-25.3	-37.1	25	21.3	28	7,170	-32.7	-41.9	26	28.9	27	7,216	-30.5	-40.5	25	37.9
350	28	8,474	-30.1	-44.3	26	20.9	28	8,229	-36.7	-48.4	26	28.7	24	8,379	-32.7	-43.1	25	24.4	28	8,100	-39.7	-45.0	26	31.1	27	8,155	-37.2	-46.6	26	41.7
300	27	9,548	-38.5	-52.2	26	23.8	28	9,277	-44.6		26	31.2	24	9,443	-41.0	-48.2	25	27.1	28	9,135	-46.9		26	34.5	27	9,200	-45.3		26	45.4
250	27	10,777	-47.6		26	28.1	28	10,475	-52.6		26	35.4	24	10,658	-49.9		26	32.0	28	10,324	-53.1		26	38.2	27	10,395	-52.8		26	46.9
200	27	12,226	-55.0		26	32.5	28	11,898	-57.3		26	34.2	24	12,090	-57.1		25	33.9	28	11,750	-55.6		26	37.1	27	11,817	-57.5		26	45.1
175	27	13,074	-57.7		26	33.5	28	12,742	-56.9		26	33.9	24	12,933	-58.3		25	32.8	26	12,608	-55.6		26	34.9	27	12,660	-57.3		26	45.7
150	27	14,038	-61.2		26	29.2	28	13,717	-58.1		26	34.2	24	13,896	-61.9		25	30.3	26	13,590	-55.9		26	34.0	27	13,635	-57.8		26	42.5
125	27	15,153	-67.4		26	29.5	27	14,857	-60.8		26	30.9	24	15,012	-66.4		25	28.4	26	14,742	-58.8		26	29.8	27	14,781	-60.1		26	37.9
100	27	16,479	-72.7		26	19.7	26	16,234	-64.1		26	24.0	22	16,349	-71.5		25	24.1	26	16,136	-61.2		26	25.4	27	16,163	-63.0		26	31.6
80	27	17,778	-75.3		26	14.4	23	17,500	-65.9		26	18.5	19	17,658	-72.3		25	14.7	25	17,507	-62.9		26	20.6	26	17,528	-64.5		26	24.5
70	27	18,554	-73.9		26	10.1	21	18,414	-65.7		26	14.8	18	18,450	-70.9		25	9.8	25	18,329	-63.4		27	17.8	26	18,344	-64.6		27	20.4
60	27	19,452	-70.3		26	5.4	21	19,352	-65.4		26	11.7	13	19,355	-67.9		25	6.6	23	19,267	-63.2		27	14.5	25	19,287	-64.5		27	15.8
50	26	20,561	-64.1		28	4.9	19	20,463	-63.7		26	10.2	13	20,463	-63.8		25	4.7	22	20,390	-62.5		27	11.0	23	20,402	-63.3		27	15.9
40	26	21,945	-59.7		29	7.2	17	21,947	-62.0		27	9.2	13	21,837	-61.4		26	6.4	21	21,770	-61.9		27	10.0	22	21,779	-62.3		27	11.8
30	26	23,759	-56.5		28	9.1	16	23,642	-59.4		27	11.	11	23,634	-59.7				21	23,554	-61.0		27	10.0	18	23,570	-60.7		27	12.9
25	25	24,916	-55.7		28	9.5	15	24,792	-59.2		27	11.8	5	24,792	-58.3				19	24,683	-60.2		28	10.0	18	24,707	-59.9		27	14.6
20	24	26,343	-53.9		27	11.7	14	26,189	-58.1		27	13.2							17	26,086	-59.1		29	10.1	17	26,113	-58.1		27	13.7
15	21	28,204	-50.2		27	16.0	10	28,031	-55.0										10	27,950	-55.8				15	27,942	-55.4		27	15.2
10	9	30,912	-41.8																						8	30,525	-50.1			
7																														

RAWINSONDE DATA

Average monthly values

FEBRUARY 1975

* NOME, AK
1008 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	27	5	-17.0	-20.0	06	3.3
1000	[illegible]	159	-12.1	-16.7	11	4.4
950	28	454	-14.3	-18.9	09	4.8
900	28	864	-14.7	-20.0	11	4.7
850	28	1,296	-15.7	-21.2	12	9.8
800	28	1,753	-16.2	-22.8	12	9.4
750	28	2,238	-16.9	-23.6	14	9.1
700	28	2,754	-19.0	-26.5	16	9.5
650	28	3,304	-21.5	-28.8	17	9.9
600	28	3,8[illegible]	-24.9	-31.3	18	9.1
550	28	4,518	-28.4	-34.9	19	9.3
500	28	5,176	-32.3	-38.1	19	9.8
450	27	5,922	-37.5	-37.9	20	8.8
400	27	6,716	-42.8	-42.9	20	6.5
350	27	7,619	-48.0		21	7.4
300	27	8,623	-52.4		22	9.1
250	27	9,794	-54.6		23	9.5
200	27	11,229	-51.4		22	10.5
175	27	12,198	-50.8		23	10.8
150	27	13,113	-50.6		23	11.9
125	27	14,291	-50.7		23	13.3
100	27	15,744	-50.9		23	13.8
80	27	17,194	-51.4		23	14.5
70	25	18,158	-51.7		24	14.0
60	25	19,058	-52.1		24	14.0
50	22	20,243	-52.9		24	13.0
40	22	21,720	-53.5		25	11.5
30	21	23,570	-53.1		26	11.0
25	19	24,777	-53.8		26	11.1
20	16	26,256	-53.6		27	10.8
15	12	28,088	-54.3		27	11.4
10	5	30,893	-53.7			

NORTH PLATTE, NE
918 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	847	-9.7	-12.3	32	1.3
1000						
950						
900	28	996	-7.0	-11.6	32	4.4
850	28	1,445	-4.6	-12.2	32	8.2
800	28	1,922	-5.1	-14.3	31	7.7
750	28	2,429	-6.1	-16.6	30	9.5
700	28	2,965	-8.8	-19.0	30	11.6
650	28	3,537	-11.6	-23.6	29	12.7
600	28	4,145	-15.6	-27.1	29	13.7
550	28	4,797	-19.6	-31.1	29	14.3
500	28	5,498	-24.5	-35.6	29	15.8
450	28	6,257	-30.0	-40.2	29	17.2
400	28	7,085	-36.4	-44.6	29	18.1
350	28	8,000	-43.4		28	19.5
300	28	9,017	-50.8		28	22.2
250	28	10,190	-55.4		28	23.9
200	28	11,614	-54.4		27	26.0
175	28	12,471	-53.6		27	24.5
150	28	13,461	-54.3		27	23.8
125	28	14,626	-55.9		27	21.7
100	28	16,037	-58.5		27	18.8
80	27	17,432	-59.6		26	15.7
70	27	18,267	-60.2		28	13.9
60	27	19,227	-60.5		28	12.8
50	27	20,361	-60.6		28	10.8
40	25	21,757	-60.8		29	8.2
30	21	23,539	-60.5		30	6.6
25	20	24,675	-60.5		31	6.9
20	15	26,097	-58.7		30	6.0
15	10	27,980	-56.7			

OAKLAND, CA
1019 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	6	8.7	5.1	19	.7
1000	28	159	9.3	3.3	23	.8
950	28	584	7.8	.5	27	1.9
900	28	1,028	5.8	-3.3	27	3.3
850	28	1,494	3.8	-7.3	27	5.5
800	28	1,985	1.7	-11.3	28	6.5
750	28	2,503	-.8	-13.4	28	7.6
700	28	3,051	-3.8	-16.7	28	9.4
650	28	3,633	-7.0	-21.0	28	11.4
600	28	4,252	-11.0	-24.2	28	13.0
550	27	4,914	-15.3	-27.9	28	15.1
500	27	5,627	-20.1	-32.3	28	17.0
450	27	6,400	-25.4	-37.3	29	18.8
400	26	7,249	-31.4	-41.4	28	19.8
350	26	8,183	-38.8	-45.7	28	22.5
300	26	9,220	-47.2		29	24.8
250	26	10,403	-55.7		29	27.3
200	26	11,806	-59.8		29	26.9
175	26	12,641	-58.5		29	25.6
150	26	13,616	-57.5		28	22.4
125	26	14,763	-59.3		29	18.7
100	26	16,151	-61.9		28	15.0
80	26	17,528	-63.3		29	10.2
70	26	18,350	-63.0		29	8.3
60	26	19,299	-62.8		30	6.1
50	24	20,426	-62.2		30	4.5
40	22	21,815	-60.6		32	4.2
30	19	23,612	-59.8		33	3.0
25	17	24,753	-59.8		34	3.2
20	16	26,158	-58.4		31	4.8
15	11	27,997	-55.9			

OMAHA, NE
963 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	403	-8.1	-11.3	34	2.2
1000						
950	28	555	-7.4	-10.3	33	2.9
900	28	978	-6.1	-10.5	32	4.5
850	28	1,426	-5.7	-11.9	32	5.7
800	28	1,902	-5.5	-14.1	31	6.6
750	28	2,407	-7.3	-17.5	31	8.3
700	28	2,943	-9.3	-20.1	30	9.4
650	28	3,513	-12.2	-22.1	29	11.0
600	28	4,121	-15.6	-25.4	29	12.9
550	28	4,772	-19.9	-29.1	29	14.8
500	28	5,472	-25.0	-34.0	28	15.8
450	28	6,230	-30.5	-39.0	28	17.2
400	28	7,056	-36.9	-43.5	28	20.1
350	28	7,970	-43.8		27	21.9
300	28	8,987	-50.5		27	23.5
250	28	10,164	-54.2		27	27.1
200	28	11,595	-53.7		27	28.5
175	28	12,455	-53.0		27	27.4
150	28	13,447	-54.0		27	25.2
125	28	14,612	-56.3		27	22.7
100	28	16,022	-58.4		27	20.7
80	26	17,424	-60.1		27	16.5
70	24	18,263	-60.3		27	14.5
60	24	19,222	-61.0		28	12.5
50	24	20,356	-60.8		28	10.7
40	24	21,743	-61.1		29	9.1
30	21	23,520	-60.7		29	9.1
25	19	24,655	-60.4		29	9.7
20	16	26,043	-60.7		29	8.8
15	11	27,853	-58.3		30	10.3

* PAGO PAGO, AMERICAN SAMOA
1011 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	5	29.2	24.[illegible]	06	3.2
1000	28	104	27.1	22.6	06	3.3
950	28	557	23.4	20.[illegible]	05	3.8
900	28	1,027	20.1	16.6	05	4.5
850	28	1,519	17.3	12.4	05	4.2
800	28	2,036	14.7	9.2	05	4.1
750	28	2,58[illegible]	12.0	5.4	05	3.8
700	28	3,156	9.0	.6	05	3.9
650	28	3,767	5.5	-2.9	05	3.6
600	28	4,417	1.7	-7.2	05	3.0
550	28	5,114	-2.[illegible]	-11.7	06	2.7
500	28	5,866	-6.3	-17.[illegible]	08	2.9
450	28	6,684	-11.0	-22.6	09	3.7
400	28	7,579	-16.4	-28.6	09	3.1
350	28	8,573	-23.3	-35.7	11	3.2
300	28	9,680	-31.8	-44.4	12	3.9
250	28	10,941	-42.1		15	5.2
200	28	12,411	-54.3		16	6.4
175	28	13,255	-60.8		17	7.4
150	28	14,199	-67.2		19	7.5
125	28	15,281	-73.5		21	5.3
100	28	16,567	-78.0		15	3.9
80	28	17,841	-77.1		10	9.0
70	27	18,613	-73.9		09	12.3
60	27	19,522	-69.8		09	16.4
50	27	20,625	-64.1		09	20.8
40	26	22,005	-59.8		09	24.9
30	26	23,829	-53.8		09	26.0
25	26	25,007	-5[illegible].8		09	25.3
20	24	26,463	-48.6		09	21.5
15	24	28,376	-43.7		09	18.5
10	15	31,106	-40.0			

* PEORIA, IL
993 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	200	-4.6	-7.8	29	.7
1000	5	143	-7.9	-12.1		
950	28	543	-5.2	-8.2	30	2.4
900	28	909	-4.8	-10.5	29	4.4
850	28	1,418	-5.0	-11.6	28	6.6
800	28	1,895	-5.3	-14.1	28	9.3
750	28	2,401	-7.1	-16.9	27	11.1
700	28	2,936	-9.6	-19.5	27	13.0
650	28	3,506	-12.4	-23.2	27	15.5
600	28	4,113	-15.8	-27.0	27	17.9
550	28	4,764	-19.9	-30.7	27	19.5
500	28	5,465	-24.7	-35.1	27	22.3
450	28	6,224	-29.8	-38.8	27	23.4
400	28	7,053	-36.1	-43.4	26	26.0
350	28	7,970	-42.6	-43.4	26	29.4
300	28	8,994	-48.8		26	34.3
250	27	10,184	-53.9		26	40.4
200	27	11,610	-55.2		26	39.0
175	26	12,462	-54.5		26	34.5
150	26	13,449	-54.8		27	33.0
125	26	14,609	-57.4		27	30.1
100	26	16,011	-60.0		27	24.8
80	25	17,401	-61.3		27	23.0
70	25	18,229	-61.8		27	20.4
60	25	19,182	-62.1		28	18.3
50	23	20,315	-61.9		28	14.0
40	21	21,701	-61.9		28	13.5
30	20	23,492	-60.7		28	11.2
25	19	24,624	-59.9		29	10.7
20	17	26,024	-58.9		29	11.5
15	17	27,834	-57.4		28	13.6
10	16	30,415	-52.7		28	14.0
7	12	32,742	-45.9			
5	7	35,062	-38.2			

* PITTSBURGH, PA
973 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	359	-1.5	-6.4	24	1.8
1000						
950	28	551	-1.3	-5.7	24	3.6
900	28	980	-3.1	-7.0	26	7.0
850	28	1,432	-4.8	-8.5	26	10.4
800	28	1,909	-5.4	-12.0	27	13.1
750	28	2,414	-6.7	-14.1	27	16.1
700	28	2,951	-9.1	-17.3	27	18.8
650	28	3,522	-11.7	-19.9	27	20.8
600	28	4,131	-15.2	-23.4	27	23.3
550	28	4,784	-19.3	-27.9	27	25.7
500	28	5,487	-23.7	-30.7	27	28.5
450	28	6,250	-28.4	-36.2	26	32.6
400	28	7,084	-34.1	-42.0	27	37.1
350	28	8,009	-40.5	-41.3	26	41.6
300	26	9,026	-46.7		27	47.8
250	25	10,226	-52.4		27	51.2
200	25	11,655	-56.0		27	47.9
175	25	12,505	-55.5		27	43.3
150	25	13,488	-55.9		27	39.4
125	25	14,642	-58.1		27	36.5
100	24	16,035	-60.6		27	32.5
80	24	17,423	-61.0		27	27.2
70	23	18,252	-61.6		27	24.3
60	23	19,206	-62.2		28	21.0
50	23	20,333	-62.3		28	17.3
40	21	21,716	-61.8		28	16.4
30	18	23,526	-59.5		28	13.7
25	16	24,659	-58.9		28	13.4
20	16	26,063	-58.3		28	11.9
15	10	27,921	-55.8			

PONAPE, CAROLINE IS.
* 1005 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	39	28.2	22.9	09	4.2
1000	28	83	26.6	21.5	06	4.4
950	28	535	22.6	19.8	07	7.7
900	28	1,005	19.3	16.4	07	9.1
850	28	1,495	16.5	12.4	08	7.3
800	28	2,012	15.7	5.3	08	4.8
750	28	2,558	13.4	.2	09	3.6
700	28	3,135	10.4	-4.5	09	4.4
650	28	3,749	7.4	-7.3	09	6.2
600	28	4,404	3.8	-11.2	09	5.9
550	28	5,105	-.3	-16.4	09	5.7
500	28	5,862	-4.7	-20.8	09	6.0
450	28	6,684	-9.2	-25.3	08	7.2
400	28	7,585	-14.9	-31.6	07	6.7
350	28	8,586	-21.6	-37.6	06	6.1
300	28	9,699	-30.2	-44.9	07	4.6
250	28	10,969	-40.6	-53.0	11	2.7
200	28	12,449	-52.7		16	2.4
175	28	13,298	-59.7		15	3.0
150	28	14,244	-67.6		13	3.3
125	28	15,321	-75.5		09	5.1
100	28	16,586	-83.0		09	9.2
80	28	17,826	-80.7		09	9.7
70	28	18,589	-75.9		09	6.6
60	28	19,492	-70.5		09	6.9
50	28	20,588	-65.7		09	12.8
40	27	21,957	-61.5		09	22.5
30	25	23,772	-53.9		09	22.9
25	24	24,952	-50.3		09	8.8
20	24	26,419	-47.3		27	8.1
15	22	28,325	-45.2		27	16.7
10	9	31,075	-40.4			

PORTLAND, ME
1014 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	20	-7.7	-12.3	30	1.4
1000	26	135	-5.9	-11.6	30	1.8
950	28	527	-6.7	-12.3	28	2.3
900	28	948	-8.2	-14.2	27	4.2
850	28	1,391	-9.0	-16.3	28	7.8
800	28	1,861	-9.7	-18.3	28	11.7
750	28	2,357	-11.5	-20.3	28	15.0
700	28	2,884	-13.6	-22.3	28	17.0
650	28	3,445	-16.3	-24.0	28	18.8
600	28	4,044	-19.4	-27.2	28	21.2
550	28	4,686	-23.4	-30.9	28	24.3
500	28	5,377	-27.9	-35.0	28	27.3
450	28	6,126	-32.9	-39.3	28	31.2
400	28	6,945	-38.7	-43.4	28	35.4
350	28	7,853	-44.6		28	40.4
300	28	8,872	-49.2		28	46.4
250	28	10,057	-52.9		27	46.2
200	28	11,491	-54.2		27	38.7
175	27	12,343	-53.7		27	34.8
150	27	13,334	-54.1		27	32.5
125	27	14,498	-56.4		27	31.2
100	27	15,909	-58.2		27	26.7
80	26	17,315	-59.4		27	22.3
70	26	18,150	-60.0		27	20.1
60	26	19,112	-60.4		28	17.4
50	26	20,248	-60.2		28	15.9
40	26	21,639	-60.6		28	14.6
30	26	23,434	-59.9		28	15.4
25	26	24,576	-59.0		28	13.7
20	25	25,972	-58.7		28	15.2
15	20	27,772	-57.7		27	19.0
10	13	30,333	-53.6			

* QUILLAYUTE, WA
1007 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	58	3.4	.6	09	1.3
1000	20	154	3.5	-1.[illegible]	11	1.5
950	28	525	2.2	-1.6	17	3.9
900	28	960	-.4	-2.6	19	6.3
850	28	1,415	-2.8	-5.4	21	7.3
800	28	1,894	-5.2	-9.1	22	8.1
750	28	2,399	-7.5	-13.9	23	8.1
700	28	2,933	-10.8	-18.9	23	9.4
650	28	3,500	-13.8	-21.8	24	10.7
600	28	4,104	-17.4	-25.6	25	11.0
550	28	4,750	-21.9	-31.0	25	12.9
500	28	5,445	-26.4	-34.7	26	13.2
450	28	6,199	-31.8	-37.8	26	14.3
400	28	7,021	-38.0	-42.9	26	15.4
350	28	7,929	-44.9		27	17.4
300	27	8,938	-50.9		27	21.3
250	27	10,110	-56.3		28	22.5
200	26	11,518	-54.9		28	19.7
175	26	12,378	-52.7		28	17.3
150	26	13,372	-53.1		28	17.0
125	25	14,544	-53.8		28	15.0
100	24	15,972	-55.8		28	12.2
80	23	17,387	-57.4		29	10.0
70	23	18,230	-57.7		30	8.3
60	21	19,200	-57.9		31	6.9
50	19	20,346	-58.6		31	6.6
40	19	21,747	-59.0		33	5.6
30	16	23,553	-58.6		33	6.0
25	15	24,704	-59.0		33	4.8
20	12	26,100	-58.2		32	4.1
15	9	27,904	-58.4			
10	5	30,479	-54.9			

RAPID CITY, SD
903 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	966	-10.5	-15.4	35	3.7
1000						
950						
900	19	1,025	-10.5	-16.4	34	[illegible]
850	28	1,438	-5.5	-14.9	32	8.3
800	28	1,913	-6.4	-15.2	32	9.8
750	28	2,416	-8.3	-17.5	32	10.3
700	28	2,949	-10.7	-19.5	31	10.9
650	28	3,516	-13.9	-21.7	30	11.5
600	28	4,120	-17.2	-25.1	29	12.8
550	28	4,767	-21.3	-30.2	29	13.5
500	28	5,463	-26.3	-36.1	29	15.[illegible]
450	28	6,217	-31.8	-41.4	29	16.7
400	28	7,039	-38.1	-45.5	29	19.0
350	28	7,947	-45.0		29	19.6
300	28	8,958	-52.0		29	22.0
250	27	10,123	-57.3		28	22.4
200	27	11,538	-54.6		28	23.5
175	27	12,397	-53.0		28	20.7
150	27	13,391	-53.6		28	19.2
125	26	14,564	-55.4		28	18.2
100	25	15,980	-57.6		28	16.8
80	21	17,398	-58.6		28	12.9
70	2[illegible]	18,233	-59.3		29	12.2
60	20	19,199	-59.1		29	11.2
50	20	20,339	-59.7		30	9.5
40	17	21,744	-60.5		30	7.4
30	16	23,552	-59.6		31	7.1
25	15	24,695	-59.8		33	3.9
20	10	26,144	-57.9		35	3.3
15	7	27,971	-55.6			
10						

ST CLOUD, MN
980 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	316	-13.5	-16.1	33	1.6
1000						
950	28	551	-10.8	-13.4	30	2.8
900	28	968	-10.2	-13.6	30	5.2
850	28	1,408	-10.6	-14.2	30	6.8
800	28	1,876	-10.0	-17.2	30	8.1
750	28	2,372	-11.5	-19.4	30	9.6
700	28	2,899	-13.8	-22.3	29	11.2
650	28	3,459	-16.7	-25.8	30	13.0
600	28	4,056	-20.2	-29.1	30	13.7
550	28	4,696	-24.2	-33.2	29	15.0
500	28	5,384	-28.8	-37.6	29	17.0
450	28	6,131	-33.8	-41.8	29	18.7
400	27	6,942	-39.9	-47.7	28	20.1
350	27	7,845	-46.2		28	21.9
300	27	8,853	-52.1		29	22.6
250	27	10,022	-55.4		28	25.8
200	27	11,453	-52.8		27	25.3
175	27	12,316	-52.2		27	24.1
150	27	13,312	-53.0		27	24.1
125	27	14,483	-54.8		28	22.4
100	26	15,902	-57.0		28	20.8
80	26	17,310	-58.2		28	19.2
70	26	18,150	-58.8		28	17.7
60	26	19,116	-59.6		29	16.9
50	26	20,255	-60.1		29	15.1
40	26	21,645	-60.6		29	14.1
30	25	23,435	-60.4		30	12.5
25	24	24,577	-60.8		30	11.2
20	21	26,006	-59.4		30	9.9
15	16	27,854	-58.3		31	7.4

* ST PAUL ISLAND, AK
1003 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	10	-9.4	-11.2	02	4.0
1000	14	134	-4.4	-6.5	08	3.1
950	28	432	-11.7	-12.6	03	3.3
900	28	847	-11.7	-16.3	03	2.0
850	28	1,284	-12.0	-20.2	34	1.2
800	28	1,748	-12.6	-22.4	29	.3
750	28	2,239	-14.5	-24.1	21	1.3
700	28	2,760	-16.9	-26.3	20	3.6
650	28	3,314	-19.4	-28.6	20	4.9
600	28	3,905	-22.9	-31.8	21	6.0
550	28	4,538	-26.6	-35.8	21	6.8
500	28	5,221	-30.8	-38.2	21	9.1
450	27	5,953	-35.9	-41.6	22	10.6
400	27	6,763	-41.2	-46.3	22	12.3
350	27	7,663	-46.3		22	13.0
300	27	8,673	-51.0		22	13.4
250	27	9,855	-52.5		23	13.4
200	26	11,296	-49.9		23	10.8
175	26	12,171	-48.9		23	11.3
150	24	13,212	-49.1		23	11.0
125	24	14,407	-49.5		23	10.4
100	24	15,868	-49.9		23	9.7
80	23	17,340	-50.8		23	9.1
70	23	18,209	-51.5		23	9.0
60	23	19,209	-52.0		23	8.4
50	20	20,398	-52.2		23	6.3
40	20	21,841	-52.5		23	4.3
30	18	23,730	-52.4		23	1.9
25	11	24,905	-52.2		27	1.8
20	10	26,352	-52.8			
15	6	28,256	-52.2			

SALEM, IL
996 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	174	-1.1	-3.9	30	1.0
1000	10	200	-4.3	-7.4	01	2.0
950	28	548	-1.3	-5.8	27	3.1
900	28	979	-1.5	-7.1	27	5.7
850	28	1,434	-2.0	-8.7	27	7.9
800	28	1,916	-2.7	-13.5	27	9.3
750	28	2,426	-4.6	-15.6	27	11.1
700	28	2,966	-7.1	-19.1	26	13.4
650	28	3,541	-9.9	-21.8	26	16.0
600	28	4,155	-13.4	-24.4	26	19.2
550	28	4,812	-17.5	-28.4	27	22.3
500	28	5,519	-22.2	-33.7	26	24.3
450	27	6,280	-27.4	-38.3	26	28.4
400	27	7,118	-33.4	-41.2	26	32.0
350	27	8,045	-40.0	-42.5	26	34.4
300	27	9,079	-47.2		26	38.4
250	27	10,269	-53.1		25	41.6
200	27	11,698	-55.5		26	44.7
175	26	12,545	-54.7			
150	26	13,531	-55.0			
125	25	14,692	-57.3			
100	25	16,092	-60.2			
80	24	17,477	-62.0			
70	24	18,301	-62.[illegible]			
60	23	19,255	-62.7			
50	21	20,367	-63.0		26	11.2
40	18	21,754	-62.1		28	10.2
30	14	23,525	-60.8			
25	14	24,672	-59.7			
20	12	26,075	-58.5			
15	11	27,872	-56.4			
10	7	30,511	-50.3			

SALEM, OR
1009 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	61	3.6	1.6	19	2.3
1000	21	167	4.4	1.9	20	2.0
950	28	548	3.8	-.2	20	6.1
900	28	986	1.9	-2.5	22	7.6
850	28	1,445	-.5	-6.1	23	9.1
800	28	1,928	-3.0	-8.6	24	9.9
750	28	2,437	-5.8	-12.5	24	10.5
700	28	2,975	-8.7	-18.1	25	10.7
650	28	3,546	-12.0	-22.8	26	11.8
600	28	4,154	-15.9	-26.7	26	12.6
550	28	4,804	-20.5	-30.6	26	13.8
500	28	5,502	-25.5	-35.4	27	14.0
450	28	6,259	-30.4	-38.6	27	15.8
400	28	7,086	-36.2	-43.3	27	19.0
350	28	8,004	-42.3	-47.2	28	22.1
300	28	9,028	-48.8		28	25.8
250	28	10,208	-55.6		28	27.3
200	28	11,623	-56.0		28	22.3
175	27	12,475	-53.7		28	20.7
150	27	13,467	-53.6		28	18.3
125	27	14,635	-55.5		28	16.8
100	27	16,051	-57.6		29	13.6
80	26	17,460	-58.1		29	9.5
70	26	18,299	-59.0		29	8.3
60	26	19,266	-59.6		30	6.7
50	25	20,409	-59.7		31	5.4
40	24	21,804	-59.5		33	5.2
30	24	23,607	-59.0		36	3.8
25	22	24,754	-59.2		36	4.0
20	21	26,159	-58.9		01	5.4
15	20	27,986	-57.[illegible]		01	4.5

RAWINSONDE DATA

Average monthly values

FEBRUARY 1975

SALT LAKE CITY, UT
872 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	1,288	-.2	-4.4	16	2.2
1000						
950						
900						
850	28	1,490	-.3	-7.7	17	3.5
800	28	1,974	-2.9	-10.1	20	4.2
750	28	2,482	-5.7	-12.3	25	4.3
700	28	3,040	-9.0	-15.5	27	6.3
650	28	3,590	-12.7	-18.5	28	8.0
600	28	4,197	-16.1	-22.9	29	9.2
550	28	4,848	-20.0	-29.0	29	11.9
500	28	5,548	-24.8	-32.7	29	13.3
450	28	6,306	-30.0	-37.9	29	14.8
400	28	7,135	-36.0	-44.0	28	18.1
350	28	8,052	-42.9	-46.9	29	19.9
300	28	9,073	-49.8		29	22.9
250	28	10,248	-55.8		29	23.0
200	28	11,643	-56.3		29	26.0
175	28	12,514	-55.3		28	21.7
150	28	13,496	-55.7		29	20.6
125	28	14,653	-57.5		28	18.0
100	28	16,056	-59.5		29	14.8
80	28	17,447	-60.8		29	11.5
70	28	18,276	-61.4		28	10.3
60	28	19,233	-61.4		28	8.1
50	28	20,363	-61.9		29	6.4
40	28	21,747	-61.6		30	6.3
30	26	23,539	-60.5		32	3.4
25	25	24,671	-60.3		32	4.5
20	23	26,072	-59.6		32	4.4
15	17	27,907	-57.5		33	4.6
10						
7						

SAN DIEGO, CA
1004 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	124	8.5	5.8	06	.7
1000	26	160	9.4	4.5	08	.8
950	28	583	10.2	-1.2	31	.5
900	28	1,031	8.7	-5.4	30	1.6
850	28	1,502	6.4	-7.8	30	3.4
800	28	1,997	4.3	-11.8	29	5.1
750	28	2,529	1.9	-15.9	29	6.8
700	28	3,074	-.8	-19.4	30	9.0
650	28	3,662	-3.8	-22.4	29	11.1
600	28	4,290	-7.6	-25.9	29	12.8
550	28	4,961	-12.1	-28.4	29	14.0
500	28	5,683	-17.2	-33.0	29	15.4
450	28	6,463	-23.2	-37.5	29	17.0
400	28	7,314	-29.9	-42.9	29	18.6
350	28	8,254	-37.4	-48.2	29	19.8
300	28	9,297	-45.5		29	21.7
250	28	10,492	-53.4		29	24.7
200	28	11,906	-58.6		29	24.8
175	28	12,747	-58.1		28	25.5
150	28	13,717	-59.0		28	24.7
125	28	14,855	-61.3		28	23.0
100	28	16,228	-64.3		28	17.2
80	26	17,592	-65.2		28	12.5
70	26	18,406	-64.7		27	11.3
60	26	19,349	-63.8		27	8.5
50	26	20,469	-63.2		27	7.2
40	25	21,852	-61.1		28	5.8
30	23	23,646	-59.6		28	5.7
25	23	24,790	-58.6		28	6.8
20	21	26,190	-57.3		28	8.0
15	17	28,017	-54.9		27	11.8
10	6	30,844	-49.0			
7						

SAN JUAN, P. R.
1018 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	23	6	22.4	17.8	13	1.8
1000	23	158	22.3	17.7	08	4.0
950	23	602	18.9	15.4	09	7.7
900	23	1,065	15.6	11.6	09	9.0
850	23	1,549	12.6	5.9	09	7.5
800	23	2,056	10.5	-.4	09	7.6
750	23	2,591	8.6	-6.6	09	6.7
700	23	3,160	7.5	-13.2	10	4.8
650	23	3,767	4.7	-16.1	09	3.0
600	23	4,416	1.6	-19.5	06	1.8
550	23	5,111	-2.8	-23.2	04	1.8
500	23	5,859	-7.8	-27.3	36	3.0
450	23	6,670	-13.5	-32.1	34	5.0
400	23	7,553	-20.6	-38.0	32	6.9
350	21	8,532	-27.6	-44.0	31	9.1
300	21	9,620	-35.3	-50.3	30	15.6
250	21	10,868	-43.9		29	20.9
200	21	12,336	-53.4		29	24.6
175	21	13,185	-58.5		29	23.4
150	21	14,141	-64.5		29	16.7
125	19	15,237	-70.8		29	11.7
100	19	16,540	-76.2		31	5.4
80	19	17,818	-78.2		05	3.3
70	19	18,581	-77.7		06	4.0
60	19	19,471	-73.5		06	4.5
50	18	20,569	-64.0		07	4.3
40	18	21,954	-58.9		08	6.8
30	17	23,778	-54.7		09	11.1
25	17	24,949	-53.2		09	10.3
20	16	26,392	-51.1		08	6.1
15	15	28,282	-46.9		27	3.4
10	8	30,937	-43.6			
7						

• **SAULT STE MARIE, MI**
987 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	221	-9.3	-13.2	31	.2
1000						
950	28	517	-7.7	-9.9	28	1.7
900	28	937	-9.8	-13.2	28	4.0
850	28	1,377	-11.3	-17.0	28	6.0
800	28	1,841	-13.1	-19.4	28	7.8
750	28	2,331	-14.6	-20.7	28	9.3
700	28	2,852	-16.3	-23.8	28	11.2
650	28	3,408	-18.7	-26.0	28	13.2
600	28	4,001	-21.8	-28.9	28	15.0
550	28	4,637	-25.5	-32.0	28	16.4
500	28	5,322	-30.0	-36.7	28	18.2
450	28	6,064	-35.3	-41.6	28	20.1
400	27	6,882	-41.1	-46.0	28	23.6
350	26	7,796	-46.5		27	26.3
300	26	8,802	-52.7		27	28.4
250	25	9,977	-54.9		27	32.2
200	24	11,407	-53.5		27	32.6
175	24	12,267	-53.1		27	31.0
150	24	13,259	-53.8		28	30.4
125	22	14,417	-55.0		28	28.3
100	22	15,838	-56.7		28	26.0
80	22	17,246	-58.2		28	24.6
70	22	18,087	-58.6		28	23.5
60	20	19,066	-59.3		28	19.8
50	19	20,211	-59.5		28	18.8
40	18	21,600	-59.7		28	17.3
30	17	23,410	-59.0		28	14.4
25	16	24,566	-59.0		28	13.7
20	16	25,967	-59.5		29	12.9
15	14	27,823	-58.0		29	14.0
10	11	30,446	-54.7		29	15.0
7	7	32,718	-52.2			

• **SHREVEPORT, LA**
1006 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	79	6.1	3.4	34	.8
1000	27	143	6.3	3.8	31	.8
950	28	562	7.1	2.5	24	3.4
900	28	1,008	7.9	-1.7	26	6.4
850	28	1,479	6.7	-3.6	27	8.9
800	28	1,975	5.0	-7.9	27	10.4
750	28	2,500	2.0	-12.1	26	12.5
700	28	3,055	-.7	-15.7	26	13.9
650	28	3,643	-3.6	-20.3	26	15.8
600	28	4,270	-8.0	-22.8	26	18.3
550	28	4,941	-12.1	-28.0	26	21.4
500	28	5,664	-16.8	-31.7	26	24.3
450	28	6,447	-22.2	-35.9	25	26.1
400	28	7,301	-28.7	-42.2	25	27.5
350	28	8,247	-35.6	-47.3	25	30.6
300	28	9,296	-43.8		26	34.0
250	28	10,499	-52.3		26	36.8
200	28	11,922	-57.5		25	37.0
175	28	12,766	-57.1		25	37.7
150	28	13,740	-58.5		26	37.0
125	27	14,876	-62.0		26	32.3
100	24	16,243	-65.6		25	28.6
80	21	17,586	-66.7		26	21.9
70	18	18,398	-66.8		26	18.2
60	16	19,329	-64.8		27	13.3
50	15	20,443	-64.3		27	13.2
40	14	21,806	-62.3		27	12.3
30	12	23,590	-60.6		27	15.5
25	12	24,726	-59.9		27	18.1
20	10	26,131	-58.8		28	17.0
15	8	27,942	-56.3			
10	6	30,585	-47.7			
7						

SPOKANE, WA
931 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	720	-4.9	-7.7	17	.8
1000						
950						
900	28	984	-2.8	-6.8	20	3.1
850	28	1,437	-3.8	-8.2	23	5.8
800	28	1,914	-5.8	-10.5	24	7.2
750	28	2,418	-8.3	-14.1	26	8.1
700	28	2,951	-10.9	-18.0	26	8.8
650	28	3,518	-13.8	-21.5	27	10.8
600	28	4,122	-17.4	-25.1	27	11.8
550	28	4,769	-21.4	-29.6	27	13.1
500	28	5,465	-26.3	-35.0	28	13.8
450	27	6,224	-31.7	-41.1	28	14.4
400	27	7,046	-38.0	-45.5	28	18.0
350	27	7,955	-44.9		28	19.4
300	26	8,955	-51.1		28	23.5
250	26	10,127	-55.7		29	25.9
200	26	11,545	-55.0		29	22.7
175	26	12,403	-52.8		29	20.1
150	26	13,400	-52.7		29	17.6
125	26	14,572	-54.6		29	16.1
100	26	15,997	-56.3		29	14.3
80	26	17,411	-57.0		30	12.1
70	26	18,257	-57.4		30	10.7
60	26	19,228	-58.6		31	8.8
50	26	20,372	-58.8		31	8.2
40	26	21,773	-59.3		33	6.4
30	26	23,576	-58.9		34	6.2
25	26	24,721	-58.7		35	6.4
20	22	26,136	-58.5		35	4.7
15	14	27,964	-58.0		34	7.1
10						
7						

• **SWAN ISLAND, W. I.**
1014 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	10	24.5	21.2	10	4.5
1000	28	129	24.4	20.7	10	5.2
950	28	577	20.5	18.3	11	6.5
900	28	1,043	17.6	13.0	11	7.2
850	28	1,530	14.4	8.6	11	7.5
800	28	2,040	11.8	4.0	11	6.6
750	28	2,578	9.4	-3.1	10	5.6
700	28	3,149	8.0	-8.4	10	4.6
650	28	3,758	5.9	-13.7	12	3.3
600	28	4,409	1.9	-18.4	14	3.0
550	28	5,105	-2.1	-22.5	18	2.6
500	28	5,855	-7.2	-26.5	21	3.2
450	28	6,668	-12.9	-30.8	23	4.1
400	28	7,553	-19.8	-36.7	25	5.5
350	28	8,533	-27.1	-41.7	25	8.8
300	28	9,622	-35.4	-49.5	25	14.0
250	27	10,867	-45.0		25	19.2
200	27	12,325	-54.9		25	21.8
175	27	13,169	-59.5		25	20.9
150	27	14,123	-64.2		25	17.6
125	26	15,224	-70.8		25	10.8
100	25	16,522	-77.3		20	3.1
80	25	17,793	-79.0		13	5.4
70	25	18,558	-76.7		12	5.5
60	25	19,454	-71.9		09	5.3
50	25	20,550	-64.8		08	4.6
40	25	21,927	-60.3		09	7.2
30	25	23,742	-55.3		09	8.4
25	25	24,911	-53.6		08	6.1
20	23	26,357	-50.6		05	1.9
15	22	28,255	-44.6		26	6.1
10	13	30,959	-41.7		25	17.9
7	8	33,389	-37.3			

TAMPA, FL
1017 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	8	15.6	14.3	12	1.1
1000	28	152	17.9	14.4	16	1.7
950	28	591	16.4	10.9	21	4.1
900	28	1,050	14.0	6.7	22	5.5
850	28	1,530	11.6	1.8	23	6.4
800	28	2,035	9.4	-4.0	24	6.9
750	28	2,568	6.9	-8.8	25	7.8
700	28	3,132	4.0	-11.6	25	8.6
650	28	3,731	.8	-15.9	25	9.7
600	28	4,369	-3.0	-19.8	25	12.7
550	28	5,053	-7.2	-25.3	25	15.3
500	28	5,789	-12.2	-29.1	25	18.4
450	27	6,587	-17.7	-34.3	26	20.2
400	27	7,458	-24.2	-39.3	25	22.2
350	27	8,419	-31.6	-44.3	26	25.7
300	27	9,489	-39.9	-50.2	26	28.5
250	27	10,710	-49.1		26	30.9
200	27	12,146	-56.3		26	36.3
175	27	12,990	-58.3		26	37.8
150	27	13,954	-61.4		26	35.3
125	26	15,069	-66.9		26	28.0
100	26	16,401	-71.4		26	21.1
80	25	17,714	-73.4		26	16.3
70	25	18,497	-72.3		26	12.0
60	25	19,410	-69.2		26	7.4
50	25	20,513	-64.1		29	5.3
40	25	21,892	-60.5		29	8.2
30	24	23,696	-57.9		28	11.7
25	24	24,848	-56.8		28	13.5
20	23	26,269	-55.1		27	13.5
15	20	28,132	-50.7		26	16.3
10	10	30,834	-43.3			
7						

TOPEKA, KS
986 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	268	-3.7	-6.2	34	2.4
1000						
950	28	561	-4.5	-7.7	34	2.9
900	28	987	-4.1	-8.5	32	4.2
850	28	1,439	-3.5	-10.9	30	5.7
800	28	1,919	-3.4	-12.8	29	6.3
750	28	2,428	-5.2	-15.4	29	7.8
700	28	2,968	-7.2	-17.0	29	10.7
650	28	3,542	-10.3	-19.5	28	12.7
600	28	4,156	-13.9	-23.7	28	14.5
550	28	4,810	-18.3	-27.7	28	16.6
500	28	5,514	-23.6	-33.0	27	18.5
450	28	6,276	-29.1	-38.0	27	20.9
400	28	7,107	-35.2	-44.6	27	22.9
350	28	8,028	-41.8	-44.6	26	26.2
300	28	9,054	-48.4		26	31.4
250	28	10,239	-53.7		26	34.0
200	28	11,667	-54.9		26	33.4
175	28	12,521	-54.7		27	30.7
150	28	13,509	-54.6		26	28.6
125	26	14,673	-57.2		27	27.1
100	26	16,073	-60.0		27	22.1
80	24	17,456	-61.6		27	18.5
70	24	18,283	-62.0		27	16.6
60	21	19,234	-62.4		27	15.2
50	19	20,359	-61.3		28	11.1
40	19	21,743	-61.2		28	10.0
30	18	23,537	-61.0		28	7.1
25	16	24,651	-61.2		29	11.0
20	15	26,037	-59.9		29	9.9
15	9	27,855	-57.8			
10						
7						

• **TRUK, CAROLINE IS.**
101[illegible] MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	2	28.3	23.4	05	5.0
1000	28	98	27.1	21.9	06	6.2
950	28	551	23.3	19.8	07	9.2
900	28	1,022	20.4	15.0	07	8.8
850	28	1,514	17.5	11.0	08	7.0
800	28	2,031	15.6	4.7	09	5.1
750	28	2,577	14.1	-2.1	09	4.8
700	28	3,156	11.3	-5.7	09	5.7
650	28	3,772	8.0	-7.9	09	6.2
600	28	4,427	4.0	-10.6	09	6.5
550	28	5,130	-.1	-16.6	09	6.9
500	28	5,887	-4.4	-19.9	09	7.6
450	28	6,709	-9.2	-26.5	08	8.1
400	28	7,612	-14.6	-31.9	07	8.1
350	28	8,613	-21.4	-37.4	07	6.7
300	28	9,728	-30.0	-44.9	09	5.0
250	28	10,999	-40.3	-50.8	13	4.1
200	28	12,481	-52.5		15	4.5
175	28	13,331	-59.5		14	5.4
150	28	14,278	-67.4		14	6.5
125	28	15,356	-75.4		12	7.3
100	28	16,623	-82.6		10	10.1
80	28	17,670	-79.8		09	10.7
70	28	18,634	-75.8		09	7.6
60	28	19,536	-70.9		09	7.5
50	26	20,631	-65.6		09	12.6
40	26	22,001	-61.0		09	22.2
30	26	23,818	-53.7		09	23.2
25	26	25,000	-50.4		09	12.2
20	25	26,464	-48.1		28	2.5
15	25	28,375	-44.0		27	13.4
10	18	31,099	-42.0		27	17.6
7						

• **TUCSON, AZ**
926 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	789	4.8	-3.8	[illegible]	1.8
1000						
950						
900	28	1,021	9.4	-6.0	18	1.3
850	28	1,494	7.1	-8.0	25	1.6
800	28	1,989	3.8	-10.4	27	3.3
750	28	2,511	.9	-13.0	27	4.7
700	28	[illegible]	-2.2	-17.5	27	6.9
650	28	3,647	-5.2	-22.3	27	9.9
600	28	4,271	-9.0	-25.2	28	11.6
550	28	4,940	-13.7	-29.0	28	14.6
500	28	5,659	-18.0	-34.0	28	16.4
450	28	6,438	-23.8	-37.5	28	18.2
400	28	7,287	-30.3	-43.2	28	20.6
350	28	8,226	-37.4	-49.2	28	22.4
300	28	9,270	-45.3		28	24.8
250	28	10,464	-53.1		28	27.5
200	26	11,895	-56.7		27	30.4
175	26	12,741	-57.3		28	28.3
150	26	13,713	-58.7		27	26.6
125	26	14,852	-61.4		27	23.4
100	26	16,223	-64.4		27	19.0
80	26	17,583	-65.7		27	14.3
70	24	18,394	-65.4		27	11.1
60	24	19,334	-64.7		27	10.1
50	24	20,451	-63.3		27	8.0
40	20	21,826	-62.2		28	7.1
30	19	23,617	-60.3		27	7.9
25	19	24,756	-59.5		28	9.9
20	17	26,161	-57.3		28	9.2
15	16	27,998	-55.2		28	11.0
10	12	30,642	-48.9		28	16.5
7	11	33,046	-40.1			

• **VANDENBERG AFB, CA**
1008 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	27	100	7.9	5.1	18	.3
1000	27	167	8.8	4.8	35	.5
950	27	593	9.7	.5	33	2.5
900	27	1,041	7.7	-2.6	32	3.2
850	27	[illegible]	5.4	-6.6	31	4.3
800	27	2,003	3.6	-10.3	[illegible]	5.7
750	27	2,525	[illegible]	-11.6	[illegible]	6.7
700	27	3,077	[illegible]	-17.2	[illegible]	9.0
650	27	3,663	-5.0	-19.7	29	11.1
600	27	4,288	-8.7	-21.4	29	12.8
550	27	4,957	-13.3	-25.6	29	13.7
500	27	5,675	-18.3	-29.0	29	16.0
450	27	6,453	-24.6	-33.4	29	18.3
400	27	7,302	-30.3	-40.3	29	20.4
350	27	8,241	-37.5	-45.4	29	21.7
300	27	9,284	-45.7		29	22.7
250	27	10,474	-54.7		29	25.7
200	27	11,882	-60.0		29	25.8
175	27	12,717	-58.9		28	25.6
150	27	13,687	-58.6		28	24.4
125	27	14,827	-61.1		28	20.5
100	27	16,204	-63.8		28	16.1
80	26	17,567	-64.4		28	12.5
70	26	18,384	-64.3		28	9.4
60	26	19,328	-64.2		29	6.3
50	24	20,451	-62.8		28	4.5
40	23	21,837	-61.0		29	4.6
30	21	23,624	-60.0		31	5.5
25	19	24,764	-59.0		29	5.7
20	18	26,171	-57.8		29	6.1
15	15	27,982	-55.9		28	11.6
10	13	30,588	-51.4		28	19.0
7	9	32,940	-44.5			

VICTORIA, TX
1012 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	33	9.5	6.9	01	2.4
1000	28	133	11.6	8.2	02	1.6
950	28	563	12.0	5.8	20	2.4
900	28	1,016	11.1	2.6	22	4.7
850	28	1,493	10.1	-3.3	24	5.9
800	28	1,995	8.7	-8.7	25	6.9
750	28	2,527	6.3	-12.5	25	8.4
700	28	3,089	3.0	-16.3	26	9.6
650	28	3,685	-.9	-18.2	26	11.7
600	28	4,319	-5.2	-21.0	25	14.0
550	28	4,995	-10.2	-24.5	26	16.1
500	28	5,722	-15.4	-28.4	26	18.4
450	28	6,509	-21.0	-34.4	26	20.4
400	28	7,369	-26.9	-40.5	26	24.0
350	28	8,322	-33.8	-44.8	26	28.5
300	28	9,381	-41.9	-49.3	26	31.9
250	28	10,592	-51.0		26	36.0
200	28	12,021	-56.4		26	38.1
175	28	12,866	-58.1		25	39.4
150	28	13,833	-59.9		25	36.2
125	27	14,959	-64.2		25	32.6
100	25	16,315	-68.1		25	26.4
80	25	17,647	-69.9		26	19.4
70	25	18,441	-69.9		26	13.5
60	25	19,364	-67.3		26	10.2
50	23	20,470	-64.4		26	8.6
40	22	21,842	-62.2		26	11.5
30	20	23,633	-59.7		27	12.6
25	20	24,776	-56.7		27	12.7
20	20	26,182	-57.4		27	16.2
15	17	28,034	-54.1		28	18.1
10	16	30,663	-46.8		27	25.5
7	6	33,070	-39.4			

• **WAKE IS., PACIFIC AREA**
1016 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	5	24.1	19.3	08	4.1
1000	28	139	23.6	18.8	09	4.9
950	28	586	20.0	16.8	09	5.6
900	28	1,050	17.0	11.5	10	4.8
850	28	1,536	14.1	9.0	10	3.8
800	28	2,046	11.8	2.0	10	3.2
750	28	2,585	10.3	-5.1	10	1.7
700	28	3,157	7.8	-11.3	32	.3
650	28	3,765	5.3	-15.4	26	2.2
600	28	4,414	2.1	-18.8	25	3.3
550	28	5,111	-2.2	-21.6	26	4.5
500	28	5,861	-7.3	-26.5	25	6.2
450	28	6,673	-12.9	-31.3	26	6.2
400	28	7,560	-19.1	-36.4	28	9.2
350	28	8,544	-25.7	-42.3	29	14.6
300	28	9,640	-33.9	-48.2	29	17.4
250	28	10,893	-42.7		29	21.4
200	28	12,365	-53.4		29	21.4
175	28	13,212	-59.8		28	19.7
150	28	14,159	-66.8		28	18.0
125	28	15,242	-74.0		28	14.8
100	28	16,520	-80.5		27	10.6
80	27	17,774	-81.0		26	2.7
70	26	18,531	-76.3		18	1.0
60	26	19,432	-70.6		12	1.8
50	26	20,532	-64.5		12	1.5
40	26	21,908	-61.3		06	1.8
30	26	23,711	-57.4		10	.7
25	25	24,869	-56.6		13	.4
20	25	26,290	-54.4		29	2.9
15	23	28,146	-50.1		27	8.7
10	17	30,837	-44.6		26	13.9
7	6	33,312	-38.8			

• **WALLOPS ISLAND, VA NASA**
1016 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	4	3.0	-.2	29	1.1
1000	28	147	4.5	-1.3	27	1.7
950	28	564	3.3	-3.6	27	5.7
900	28	1,002	2.2	-7.1	27	8.2
850	28	1,463	1.1	-9.9	27	10.7
800	28	1,950	-.2	-12.0	27	13.3
750	28	2,465	-2.0	-14.5	26	17.0
700	28	3,011	-4.2	-16.5	26	20.1
650	28	3,592	-7.3	-19.5	26	22.9
600	28	4,212	-10.6	-23.7	26	25.8
550	28	4,875	-15.0	-28.2	26	28.2
500	28	5,590	-19.7	-30.3	26	30.4
450	28	6,365	-24.5	-33.4	26	33.4
400	28	7,213	-30.2	-40.0	26	38.7
350	28	8,153	-37.0	-43.1	26	42.8
300	28	9,198	-45.1		26	46.5
250	28	10,394	-52.9		26	50.0
200	28	11,814	-58.3		27	52.8
175	28	12,655	-57.4		27	49.7
150	28	13,630	-57.5		27	44.7
125	28	14,775	-60.2		27	39.9
100	28	16,159	-62.3		27	35.8
80	27	17,533	-63.5		27	28.1
70	27	18,353	-63.4		27	23.2
60	27	19,299	-63.7		27	20.3
50	27	20,420	-62.5		28	15.3
40	27	21,803	-61.0		28	13.3
30	26	23,597	-59.7		28	12.3
25	26	24,740	-58.9		28	12.1
20	24	26,136	-57.2		28	13.5
15	21	27,964	-55.0		27	16.4
10	9	30,579	-51.2			
7						

RAWINSONDE DATA

Average monthly values

FEBRUARY 1975

WASHINGTON DULLES INT. AP
1008 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	95	-.9	-4.3	28	.6
1000	24	164	.3	-6.7	29	1.0
950	28	557	.6	-6.6	27	4.6
900	28	991	.0	-8.9	26	7.9
850	28	1,448	-1.3	-9.9	27	10.6
800	28	1,931	-2.5	-12.0	27	13.4
750	28	2,441	-4.4	-15.7	27	16.1
700	28	2,983	-6.5	-18.7	27	18.7
650	28	3,560	-9.0	-21.7	27	21.1
600	28	4,176	-12.4	-24.6	27	23.9
550	28	4,836	-16.3	-28.6	26	27.0
500	28	5,546	-21.0	-31.9	26	29.2
450	28	6,316	-26.4	-34.1	26	33.0
400	28	7,159	-31.6	-40.3	26	38.2
350	27	8,091	-38.7	-43.1	26	42.0
300	27	9,130	-45.9		26	46.8
250	27	10,323	-53.2		27	49.4
200	26	11,740	-57.0		27	49.2
175	26	12,587	-56.3		27	48.1
150	26	13,567	-56.6		27	40.0
125	25	14,718	-58.8		27	36.8
100	25	16,110	-61.0		27	31.5
80	26	17,492	-62.8		27	26.1
70	25	18,319	-63.3		27	22.5
60	25	19,266	-63.2		28	21.0
50	24	20,386	-61.9		28	17.7
40	24	21,767	-61.6		27	12.7
30	24	23,553	-60.7		28	16.1
25	24	24,642	-59.4		28	16.0
20	24	26,092	-58.4		27	13.3
15	22	27,908	-55.7		27	14.9
10	19	30,530	-51.1			
7						

WAYCROSS, GA
1013 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	44	10.1	6.6	30	.2
1000	28	148	12.3	9.2	27	.5
950	28	579	13.0	6.3	24	4.6
900	28	1,034	11.7	3.4	24	7.7
850	28	1,510	9.5	-.8	24	9.2
800	28	2,011	7.2	-4.9	24	10.7
750	28	2,540	4.5	-8.5	25	11.5
700	28	3,099	1.8	-12.2	25	13.9
650	28	3,694	-1.3	-15.1	26	16.3
600	28	4,327	-4.9	-18.2	26	18.9
550	28	5,006	-9.1	-22.9	26	21.3
500	28	5,737	-14.1	-27.3	26	23.7
450	28	6,528	-19.3	-32.0	26	26.3
400	28	7,393	-26.[illegible]	-38.4	26	27.9
350	28	8,348	-33.2	-44.0	26	30.2
300	28	9,410	-41.5	-49.0	26	32.6
250	28	10,523	-50.2		26	37.9
200	28	12,053	-57.3		26	44.1
175	28	12,995	-59.3		26	45.5
150	28	13,862	-60.3		26	42.5
125	27	14,985	-64.3		26	38.5
100	26	16,334	-68.5		26	30.1
80	26	17,665	-70.2		26	21.0
70	26	18,460	-69.9		26	16.7
60	25	19,386	-67.4		27	13.2
50	25	20,493	-64.5		28	10.5
40	24	21,865	-62.0		28	13.2
30	24	23,657	-56.9		27	15.4
25	22	24,811	-57.9		27	14.8
20	22	26,224	-56.[illegible]		27	17.0
15	18	28,057	-53.3		27	21.6
10	14	30,722	-47.2		26	25.0
7	5	32,970	-41.8			

WINNEMUCCA, NV
868 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	1,312	-1.3	-7.0	19	2.4
850	28	1,480	.2	-5.5	20	3.4
800	28	1,965	-1.9	-7.4	22	5.8
750	28	2,476	-4.9	-10.0	25	7.4
700	28	3,015	-8.0	-13.6	26	8.3
650	28	3,588	-11.4	-17.5	27	10.5
600	28	4,198	-15.3	-21.2	27	12.0
550	28	4,850	-19.5	-26.2	28	13.6
500	28	5,552	-23.6	-32.5	29	16.3
450	28	6,315	-28.4	-37.2	29	18.8
400	28	7,149	-34.6	-42.1	29	19.4
350	28	8,071	-41.8	-44.4	29	20.8
300	28	9,096	-49.0		29	23.5
250	28	10,275	-55.4		29	25.9
200	28	11,690	-56.8		29	24.2
175	27	12,534	-55.7		29	22.0
150	27	13,515	-56.3		28	20.1
125	28	14,660	-57.5		28	18.0
100	28	16,059	-59.2		28	15.3
80	22	17,461	-61.2		29	10.6
70	22	18,290	-61.3		29	8.2
60	21	19,248	-62.4		29	6.4
50	16	20,391	-60.5		31	3.7
40	15	21,769	-60.8		30	3.1
30	13	23,570	-59.5		33	1.8
25	12	24,721	-58.8		34	1.8
20	12	26,124	-58.1		33	3.0
15	8	27,931	-57.3			

WINSLOW, AZ
851 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	1,487	-2.8	-6.7	21	2.[illegible]
850	18	1,527	-1.3	-8.7	19	1.3
800	28	1,984	1.3	-9.2	26	5.3
750	28	2,501	-1.7	-11.6	27	6.7
700	28	3,047	-4.5	-16.5	29	7.2
650	28	3,627	-7.8	-19.7	29	7.9
600	28	4,245	-11.5	-23.8	29	10.0
550	28	4,907	-15.8	-27.4	29	11.9
500	28	5,619	-20.6	-32.0	29	13.6
450	28	6,390	-26.3	-37.4	28	15.4
400	28	7,231	-32.4	-44.1	28	16.5
350	28	8,162	-39.3	-47.8	28	18.3
300	28	9,197	-46.7		29	21.3
250	28	10,388	-53.6		29	24.2
200	28	11,810	-56.6		28	25.6
175	27	12,662	-56.7		28	24.2
150	27	13,640	-57.1		28	24.2
125	26	14,784	-59.9		28	20.3
100	25	16,166	-62.7		28	18.0
80	23	17,526	-64.2		27	13.1
70	22	18,346	-63.9		27	12.8
60	21	19,297	-63.6		27	10.2
50	21	20,416	-63.3		27	7.0
40	19	21,789	-62.3		28	7.0
30	17	23,586	-60.2		28	7.7
25	15	24,721	-59.4		29	8.0
20	12	26,132	-59.2		29	8.8
15	8	27,917	-57.9			

YAKUTAT, AK
1006 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	12	-5.5	-10.3	10	3.0
1000	18	137	-2.5	-12.0	08	3.0
950	28	464	-2.9	-11.6	11	5.0
900	28	891	-5.0	-13.0	12	5.1
850	28	1,338	-7.8	-15.6	13	5.9
800	28	1,807	-10.6	-18.3	14	5.7
750	28	2,301	-13.6	-21.7	15	5.4
700	28	2,822	-17.0	-25.5	16	4.9
650	28	3,375	-20.5	-28.7	17	4.7
600	28	3,963	-24.3	-31.4	19	4.2
550	28	4,591	-28.7	-34.9	20	4.3
500	28	5,267	-33.7	-39.9	21	4.0
450	28	5,999	-38.4	-41.0	22	4.4
400	28	6,800	-43.3	-46.1	24	4.4
350	28	7,694	-47.2		25	4.9
300	28	8,704	-50.0		27	5.5
250	27	9,897	-51.1		27	6.3
200	27	11,352	-49.6		28	6.6
175	27	12,228	-48.9		28	6.7
150	27	13,240	-49.[illegible]		28	9.2
125	27	14,434	-50.[illegible]		28	7.8
100	27	15,888	-51.3		28	7.7
80	26	17,341	-52.6		30	7.8
70	25	18,212	-53.0		29	7.7
60	23	19,193	-53.7		30	7.7
50	22	20,361	-54.0		30	7.7
40	21	21,786	-55.7		31	8.6
30	20	23,621	-55.2		32	7.5
25	17	24,785	-55.5		33	7.5
20	16	26,204	-56.0		34	7.7
15	10	27,984	-57.5			

YAP, CAROLINE IS.
1009 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	14	27.7	23.3	07	4.6
1000	28	97	26.2	22.3	07	5.9
950	28	546	22.6	19.9	07	9.2
900	28	1,018	19.6	14.9	07	9.8
850	28	1,519	16.7	10.8	07	8.9
800	28	2,025	14.9	3.9	07	7.7
750	28	2,570	13.2	-1.6	08	7.5
700	28	3,147	10.5	-6.4	08	7.0
650	28	3,761	7.3	-8.8	08	6.4
600	28	4,415	3.2	-12.6	09	6.4
550	28	5,115	-.7	-16.2	09	6.5
500	28	5,871	-4.6	-21.5	09	6.9
450	28	6,693	-9.3	-27.3	09	8.2
400	28	7,594	-15.2	-32.1	08	7.5
350	28	8,592	-22.3	-37.6	09	7.1
300	28	9,703	-30.7	-43.2	09	4.7
250	28	10,971	-41.1	-50.9	11	3.7
200	28	12,447	-53.3		14	6.8
175	28	13,294	-60.3		14	8.9
150	28	14,238	-67.7		14	9.4
125	28	15,314	-75.4		13	10.7
100	28	16,582	-82.1		11	11.2
80	27	17,829	-81.0		09	7.5
70	27	18,589	-76.6		09	6.7
60	27	19,469	-71.3		08	7.7
50	27	20,584	-65.5		09	12.2
40	26	21,957	-61.1		09	20.6
30	25	23,772	-54.4		09	29.1
25	25	24,946	-52.5		10	13.0
20	24	26,4[illegible]1	-48.9		25	.8
15	22	28,307	-45.3		27	11.8
10	13	31,070	-41.3		26	20.6

YUCCA FLAT, NV
882 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	1,198	-2.3	-8.0	34	.6
850	26	1,492	3.2	-8.8	31	1.0
800	28	1,981	.4	-10.2	25	2.2
750	28	2,497	-2.0	-12.9	27	3.7
700	28	3,043	-4.4	-17.0	29	5.3
650	26	3,623	-7.5	-19.7	29	7.8
600	28	4,242	-11.6	-22.9	29	10.4
550	28	4,903	-16.0	-26.3	29	12.5
500	28	5,614	-21.0	-31.7	29	14.6
450	28	6,365	-26.1	-36.6	29	16.9
400	28	7,226	-32.5	-42.1	29	18.2
350	28	8,156	-39.7	-46.8	29	19.8
300	28	9,190	-47.3		30	22.6
250	28	10,377	-54.6		29	22.0
200	28	11,793	-57.5		29	23.5
175	28	12,639	-56.2		29	21.7
150	28	13,617	-57.2		28	21.2
125	27	14,760	-58.7		28	17.8
100	27	16,151	-62.0		28	15.3
80	26	17,531	-62.4		29	10.2
70	26	18,356	-62.4		28	8.9
60	25	19,310	-62.1		28	6.2
50	25	20,436	-62.3		28	4.9
40	25	21,819	-61.1		29	4.5
30	23	23,606	-59.8		30	4.8
25	21	24,754	-59.4		31	4.1
20	19	26,158	-58.3		30	4.6
15	10	28,007	-55.5			

SOLAR RADIATION INTENSITIES

Tabulated in langleys per minute on a surface normal to the direction of the sun.

FEBRUARY 1975

ALBUQUERQUE, N. MEX.

Date	Sun's zenith distance								
	A.M.				*	P.M.			
	78.7°	75.7°	70.7°	60.0°		60.0°	70.7°	75.7°	78.7°
	Air mass								
	4.19	3.35	2.51	1.67	*	1.67	2.51	3.35	4.19
1-----	----	----	----	1.30	----	1.32	----	----	----
2-----	.89	.99	1.13	1.30	1.34	1.27	1.10	.97	.86
3-----	----	----	----	----	----	(1.21)	----	(.95)	----
6-----	----	1.12	1.22	1.37	1.46	1.38	1.24	1.13	1.02
9-----	----	----	(1.04)	(1.25)	(1.16)	(1.27)	----	----	----
11----	.97	1.07	1.18	1.33	1.42	1.36	1.18	1.06	.96
12----	1.01	1.12	1.23	1.36	1.42	1.35	1.18	1.06	.95
16----	----	----	----	----	----	1.30	1.13	.98	.87
17----	----	----	----	----	----	----	----	.92	.79
18----	.87	1.00	1.12	1.29	1.42	1.29	1.13	1.02	.90
19----	.94	1.05	----	1.30	1.43	----	1.15	1.04	.94
20----	.98	1.09	----	1.32	----	----	----	----	----
23----	.95	1.08	1.19	1.34	1.44	1.29	1.12	.99	.87
24----	1.00	1.09	1.21	1.37	1.46	1.35	1.21	1.10	.98
25----	1.00	----	1.20	(1.38)	----	----	----	1.06	----
26----	.95	1.03	1.17	1.30	----	1.24	1.07	.98	.90
27----	.82	.99	1.08	1.29	1.42	----	----	----	----
28----	.95	1.06	----	----	----	----	1.18	1.05	.94
Averages	.94	1.06	1.17	1.32	1.42	1.32	1.15	1.03	.92

MADISON, WIS.

Date	Sun's zenith distance								
	A.M.				*	P.M.			
	78.7°	75.7°	70.7°	60.0°		60.0°	70.7°	75.7°	78.7°
	Air mass								
	4.69	3.75	2.81	1.88	*	1.88	2.81	3.75	4.69
6-----	----	----	----	----	I 1.27	----	----	----	----
9-----	S .90	S 1.00	S 1.13	S 1.25	S 1.30	S 1.28	S 1.13	S 1.03	S .88
20----	----	----	----	H 1.07	H 1.11	H 1.07	H .84	H .85	H .56
28----	----	----	----	----	----	S 1.30	S 1.11	S 1.00	S .89
Averages	.90	1.00	1.13	1.16	1.22	1.22	1.03	.96	.77

MAUNA LOA OBSERVATORY, HAWAII

Date	Sun's zenith distance								
	A.M.				*	P.M.			
	78.7°	75.7°	70.7°	60.0°		60.0°	70.7°	75.7°	78.7°
	Air mass								
	3.36	2.69	2.01	1.34	*	1.34	2.01	2.69	3.36
2-----	----	----	----	1.47	----	----	----	----	----
3-----	1.17	1.25	1.35	1.47	----	----	----	----	----
4-----	1.20	1.29	1.38	1.51	----	----	----	----	----
5-----	1.22	1.31	1.41	1.54	1.63	1.48	1.36	1.26	1.15
7-----	----	----	----	1.48	----	----	----	----	----
8-----	----	----	1.38	1.50	1.59	1.43	1.30	1.19	1.10
15----	1.14	1.23	1.32	1.43	----	----	----	----	----
16----	1.18	1.26	1.35	----	----	----	----	----	----
18----	----	----	----	----	----	1.44	1.31	1.18	1.06
19----	1.19	1.27	1.37	1.49	----	----	----	----	----
20----	1.21	1.30	1.40	1.51	1.62	----	----	----	----
21----	1.25	1.32	1.42	1.53	1.60	1.49	1.39	1.28	1.20
22----	1.23	1.31	1.41	1.52	1.65	----	----	----	----
23----	1.21	1.30	1.39	1.52	1.62	1.47	1.33	1.24	1.13
24----	1.17	1.25	1.36	1.49	1.63	1.48	1.35	1.23	1.15
25----	1.20	1.29	1.39	1.51	1.64	1.50	1.37	1.27	1.19
26----	1.25	1.34	1.42	1.57	1.66	1.49	1.39	1.30	1.20
27----	1.21	1.30	1.39	1.51	1.63	1.50	1.37	1.27	1.16
28----	1.19	1.28	1.39	1.48	---	----	----	----	----
Averages	1.20	1.29	1.38	1.50	1.63	1.48	1.35	1.25	1.15

BLUE HILL OBSERVATORY, MASS

Date	Sun's zenith distance								
	A.M.				*	P.M.			
	78.7°	75.7°	70.7°	60.0°		60.0°	70.7°	75.7°	78.7°
	Air mass								
	4.89	3.92	2.94	1.96	*	1.96	2.94	3.92	4.89
2-----	.59	.71	.85	.99	.99	.97	.92	.76	.67
10----	.66	.73	.84	.95	.97	----	----	----	----
14----	.66	.72	.81	.93	.99	.93	.82	.70	.63
20----	.57	.63	.74	.86	.93	----	----	----	----
Averages	.62	.70	.81	.93	.97	.95	.87	.73	.65

OMAHA, NEBR.

Date	Sun's zenith distance								
	A.M.				*	P.M.			
	78.7°	75.7°	70.7°	60.0°		60.0°	70.7°	75.7°	78.7°
	Air mass								
	4.78	3.82	2.87	1.91	*	1.91	2.87	3.82	4.78
9-----	1.13	1.18	1.25	1.31	1.32	1.28	----	----	----
10----	----	----	1.16	----	1.12	1.14	----	----	----
19----	HS .90	HS .99	S 1.11	S 1.26	HM 1.32	HM 1.57	HM .93	HM .68	HM .50
20----	KI .63	KI .77	KM .92	KM1.08	HM 1.20	(1.02)	----	----	----
23----	----	----	----	1.24	HS 1.37	HS 1.25	HS(1.12)	HS(.98)	HS(.89)
24----	HS .99	HS1.02	HS1.11	HS1.28	HS(1.35)	HS(1.29)	----	----	----
25----	1.17	1.21	1.28	1.38	HS 1.41	HS 1.33	HS 1.16	HM 1.02	HM .91
26----	.94	1.02	----	1.30	HS 1.40	HS 1.29	HM(1.12)	HM 1.00	HM .91
28----	----	----	1.09	1.23	1.34	1.21	----	----	----
Averages	.96	1.03	1.13	1.26	1.31	1.29	1.05	.90	.77

TUCSON, ARIZ.

Date	Sun's zenith distance								
	A.M.				*	P.M.			
	78.7°	75.7°	70.7°	60.0°		60.0°	70.7°	75.7°	78.7°
	Air mass								
	4.56	3.65	2.74	1.83	*	1.83	2.74	3.65	4.56
1-----	.90	1.01	1.11	1.32	1.43	1.31	1.15	1.00	.88
2-----	.85	.98	1.11	1.29	1.38	1.29	1.16	1.02	.91
3-----	.78	.90	1.06	1.27	1.37	----	----	----	----
4-----	.89	.99	1.13	1.33	1.39	----	----	----	----
6-----	.85	1.00	1.13	1.32	----	1.31	1.19	1.08	.99
8-----	----	1.02	1.15	1.32	1.42	1.33	1.16	1.04	.94
9-----	.92	1.02	----	----	1.44	----	1.17	1.06	.95
10----	----	----	----	----	1.41	1.31	1.19	----	.91
11----	.85	.95	1.07	1.29	1.38	1.35	1.12	1.01	.92
12----	.94	1.05	1.20	1.36	1.49	1.33	1.17	----	----
13----	.93	1.02	----	----	----	----	----	----	----
14----	----	----	----	----	----	----	1.14	1.04	----
16----	----	.88	----	1.25	----	1.31	1.21	1.02	.91
17----	----	----	----	----	1.44	1.32	1.11	.99	.87
18----	.87	1.00	1.12	1.29	1.43	1.32	1.15	1.02	.91
19----	.85	.99	1.14	1.32	1.46	1.35	1.14	1.03	.94
20----	----	----	----	1.36	----	----	----	----	----
22----	.88	.99	1.12	1.31	1.45	1.34	1.16	1.03	.92
23----	1.02	1.13	1.25	1.42	1.52	1.37	1.20	1.07	.99
24----	1.02	1.12	1.22	1.39	1.55	1.42	1.24	1.11	.99
25----	.97	1.07	1.20	1.38	----	----	----	----	----
26----	.93	----	1.15	----	----	----	----	1.05	----
27----	.90	1.01	1.13	1.34	1.50	1.35	----	1.06	.94
28----	.96	1.08	1.21	1.36	1.50	1.33	1.19	1.06	.99
Averages	.91	1.01	1.15	1.33	1.44	1.33	1.17	1.04	.94

NET RADIATION

Net radiation in langleys per day (8 a.m. to 8 a.m.) at Palmer, Alaska.

FEBRUARY 1975

Date.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Avg.
Langleys. . .	- 75	-101	- 80	- 53	- 82	- 64	- 59	- 55	- 75	- 76	- 95	- 67	-197	- 49	- 11	- 42	- 27	- 24	- 27	- 53	- 23	- 34	- 50	- 34	- 36	- 20	- 23	- 58				- 57

SOLAR ULTRA-VIOLET RADIATION DATA

Daily totals and monthly average (< 3900 Å) at Ames, Iowa.

Date.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Avg.
Langleys. . .																																

NO DATA RECEIVED

TOTAL OZONE DATA

These provisional ozone data are obtained from measurements made with a Dobson ozone spectrophotometer, and are applicable approximately to local apparent noon. The data are presented in the code ·S [illegible] defined in the August 1962 WMO circular entitled "PUBLICATION OF DATA FOR METEOROLOGICAL RESEARCH, WORLD OZONE DATA."

Units Milli-atmo-cms.

Station	Day of month																															Mean O_3
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	

NO DATA RECEIVED

REFERENCE NOTES

OBSERVED EXTREMES OF TEMPERATURE AND PRECIPITATION - BY STATES: Dates in the table apply to the period 24 hours prior to time of observation. In some cases the actual occurrence is on the calendar date preceding that shown. (See individual Climatological Data for times of observations).

+	And also on an earlier date or dates.
D	Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch of water equivalent to every 10 inches of snowfall.

CLIMATOLOGICAL DATA - METRIC UNITS: Data from airport unless otherwise specified

Precipitation data in column headed "Greatest in 24 hours" are computed on a 24-hour basis without regard to calendar day - data may include precipitation with a measurable amount from the last day of the previous month or the first day of the following month.

Wind directions under resultant direction are in tens of degrees.

Value entered in column "Fastest Mile" is the highest observed 1-minute wind speed when the direction is in tens of degrees. These stations are not equipped with a recording anemometer from which "Fastest Mile data can be evaluated.

B	Number of days maximum 21.1°C. or above for Alaskan Stations.
Y	Peak Gust
+	And also on an earlier date or dates.
U	Indicates Urban site.
R	Indicates Rural site.
0	Station pressures apply to elevations shown in the "Elevations" table of the annual issue of this publication.

Conversion formulae to English Units are as follows:

1 foot = 0.3048 meters
$F. = \frac{9}{5} \times C + 32$
1 inch = 25.4 millimeters
1 mile per hour = 0.447 meters per second

HEATING DEGREE DAYS: Data from airport unless otherwise specified.

U	Indicates Urban site.
R	Indicates Rural site.

COOLING DEGREE DAYS: Data from airport unless otherwise specified.

U	Indicates Urban site.
R	Indicates Rural site.

STORM SUMMARY:

°	Includes crop damage.
C	Crop damage.
*	No occurrence of storms or unusual weather phenomena reported.
+	Includes heavy sleet storm.
#	Freezing drizzle and freezing rain, commonly known as glaze.
0	For breakdown of "All Others," and for detailed listing of other storms, see the Environmental Data Service, NOAA, monthly publication STORM DATA.
‡	No Storm Data Report received for this State.
	Report Incomplete.
+	Storm damages are placed in categories varying from 1 to 9 as follows:

1	Less than $50
2	$50 to $500
3	$500 to $5,000
4	$5,000 to $50,000
5	$50,000 to $500,000
6	$500,000 to $5 Million
7	$5 Million to $50 Million
8	$50 Million to $500 Million
9	$500 Million to $5 Billion.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS:

1	Flooding continued at the end of the month.
NA	Not available.

FLOOD STAGE DATA:

#	Highest Stage Observed
1/	Continued at end of month
___	Highest Stage of Record
E	Estimated
P	Provisional (Flood Stage)
U	Unknown

RAWINSONDE DATA (Average Monthly Values):

All observations scheduled at 1200, G.C.T. Pressures shown under station names are the average monthly station pressures for the month of record, corrected to the height of the floors of the instrument shelters used for rawinsonde purposes. "Number of observations" refers to those of dynamic height only. Although the number of temperature observations at any given pressure surface is usually the same as for height, it is possible for temperature to be missing for one or more pressure surfaces of some observations. Dew Point averages are limited to those observations with temperatures warmer than -40°C. Observations of wind speed and direction are sometimes lost due to limiting angles, i.e., elevation angles less than 6° above the horizon, or any obstruction above the horizon. The temperature and wind values are based on 15 or more observations at the surface or 5 observations at a standard pressure level for temperature and 10 for wind. Dew Point data are not published for standard pressure surfaces for which less than 5 observations are available. Dew Point data are computed and expressed on the basis of vapor pressure over water. Unless otherwise indicated, they are obtained from carbon hygristors. These average values for standard pressure surfaces were obtained by rawinsondes; dynamic height (geopotential) in units of .98 dynamic meter, temperature and dew point in degrees Celsius, and resultant winds in tens of degrees and meters per second.

*	Rawinsondes at this station were equipped with hypsometers to permit more accurate evaluations of pressure, and consequently height, at pressures lower than 50 mb. These rawinsondes were carried aloft by special high altitude balloons, in an effort to consistently reach higher altitudes.
+	Observations for these stations are scheduled at 0000 G.C.T.
†	Dew Point temperatures are based on a minimum of 5 observations. Therefore, due to the lesser number of Dew Point observations at the higher levels comparison with dry-bulb temperatures should be made with care. Dew Point temperatures replaced Relative Humidity January 1967.

REFERENCE NOTES (continued)

SOLAR RADIATION INTENSITIES: Langley is the unit used to denote one gram calorie per square centimeter. An explanation of the formula used in computing the air mass values for each station appears in the February 1957 issue, Vol. 8, No. 2, page 63, of this publication.

C	Clouds Present	DM	Moderate Dust	HM	Moderate Haze	SK	Slight Smoke
*	Values corresponding to true solar noon	DS	Slight Dust	HS	Slight Haze	M	Moderate Haze-indeterminable
BD	Blowing Dust	F	Fog	I	Intense haze-indeterminable		
BN	Blowing Sand	GF	Ground Fog	K	Smoke	N	Sand
D	Dust	H	Haze	KI	Intense Smoke		Slight Haze-indeterminable
DI	Intense Dust	HI	Intense Haze	KM	Moderate Smoke		

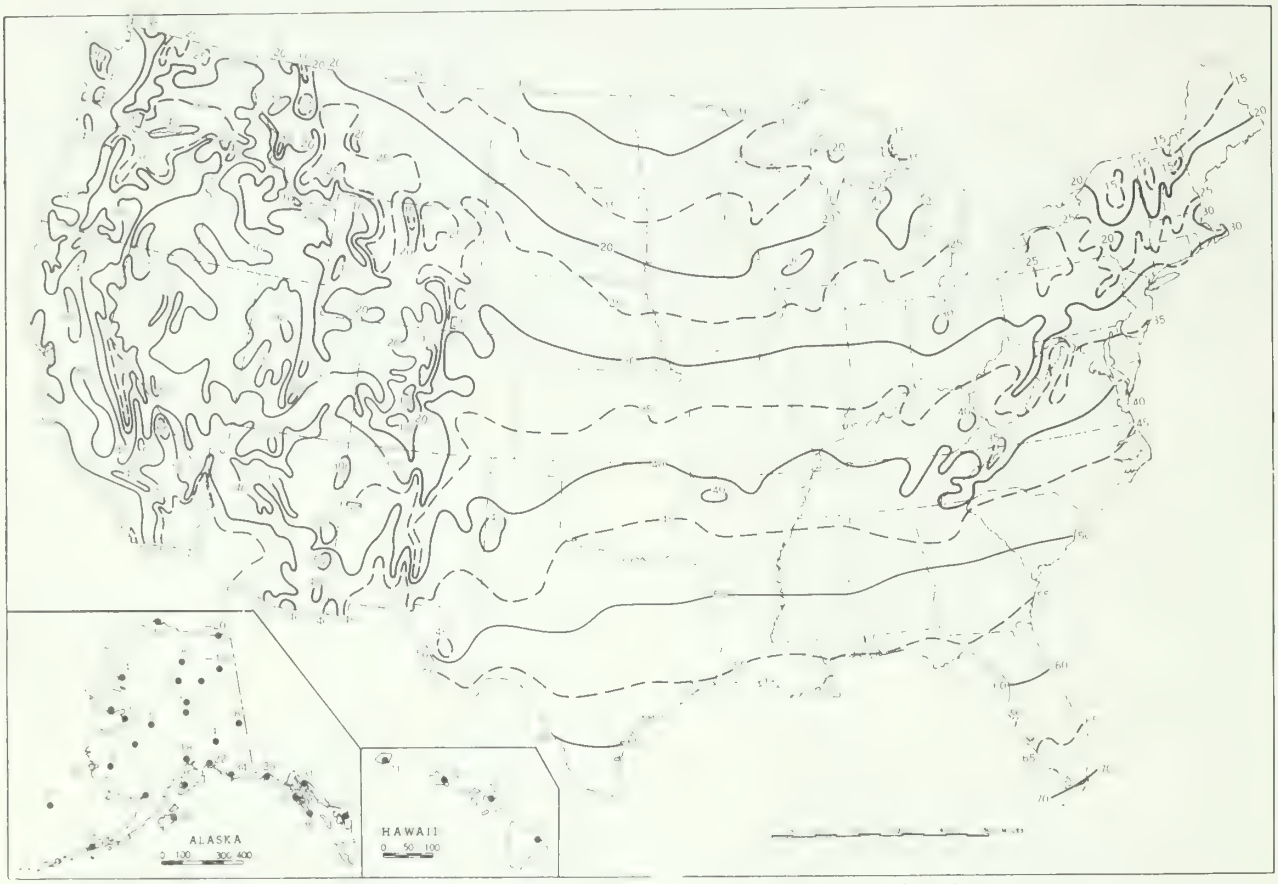
NET RADIATION: The measurement is made with a CSIRO FUNK net exchange radiometer over a plot of sod. The value represents the total incoming minus the total outgoing radiation of all wave lengths.

These data are of an experimental nature and are published as received from the Palmer Exp. Station. The instrument with which they were measured has not been checked by the NOAA, National Weather Service.

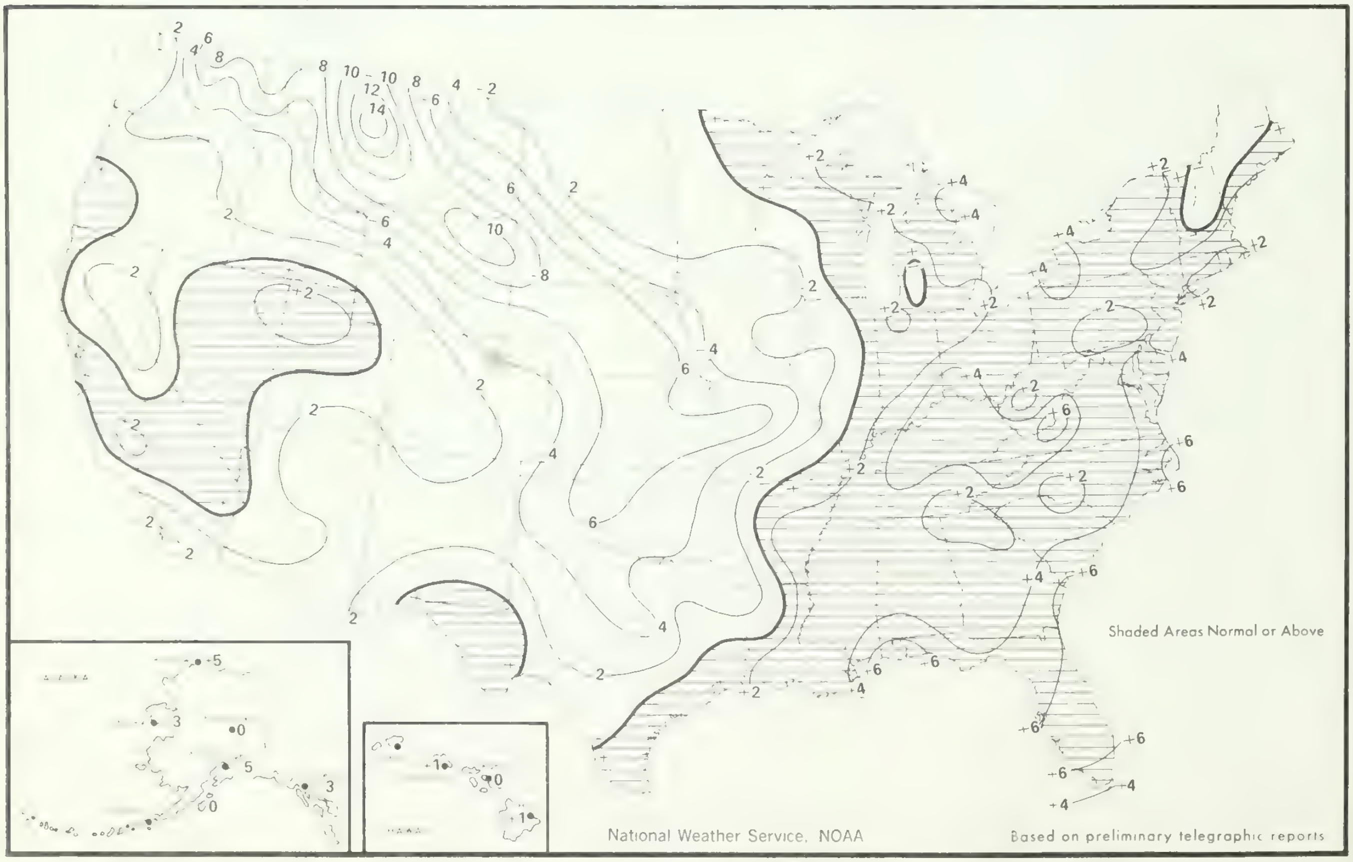
SOLAR ULTRA-VIOLET RADIATION DATA: These data are from an U-V Eppley total ultra violet sensor and Speedomax H (Leeds Northrup) Recorder. This instrument has not been checked by the NOAA, National Weather Service.

TOTAL OZONE DATA: The spectrophotometer measures the total amount of ozone in the atmosphere, i.e., the amount contained in a vertical column of air extending from ground level to the top of the atmosphere in the vicinity of the station. The amount of ozone in this column (coded Ω Ω Ω) is expressed in terms of a thickness of a layer it would occupy at standard temperature and pressure, e.g., 350 milli-atmo-cm ozone implies an ozone layer 0.350 centimeter thick. The code λ_s designates the type of measurement made.

Chart 1. A. Normal Daily Average Temperature (°F. 1941-70), February.


ALASKA
0 100 300 400
HAWAII
0 50 100
15
20
25
30
35
40
45
60
65
70

B. Temperature Departure from 30 - Year Mean (°F 1941-70), February 1975

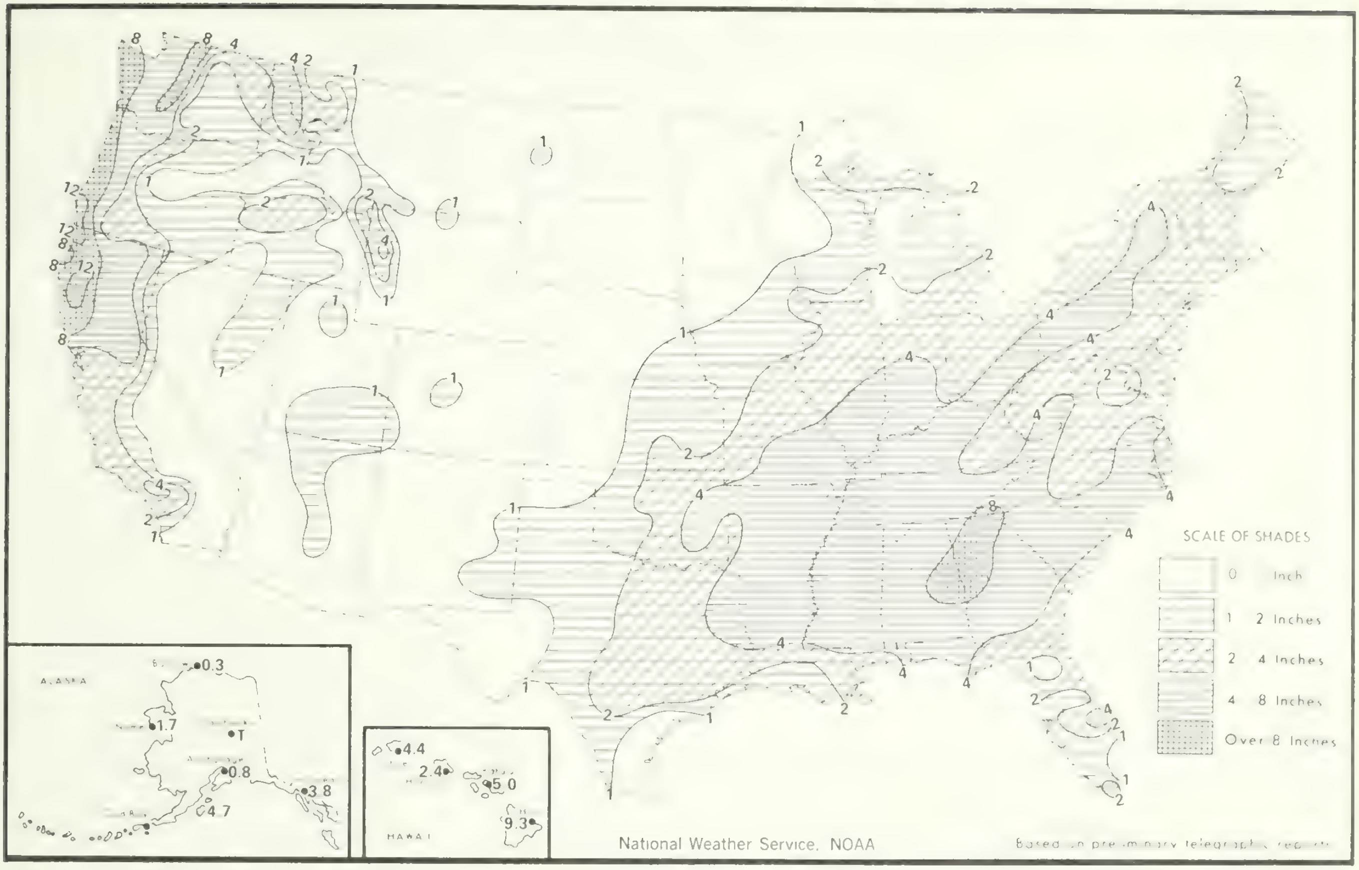

+2
+4
+6
2
4
6
8
10
12
14
-5
3
0
5
1

Shaded Areas Normal or Above

National Weather Service, NOAA

Based on preliminary telegraphic reports

Chart II. A. Total Precipitation (Inches), February 1975


SCALE OF SHADES
0 Inch
1 2 Inches
2 4 Inches
4 8 Inches
Over 8 Inches
ALASKA
0.3
1.7
T
0.8
3.8
4.7
HAWAII
4.4
2.4
5.0
9.3
National Weather Service, NOAA
Based on preliminary telegraphic reports

B. Percentage of Normal Precipitation, February 1975

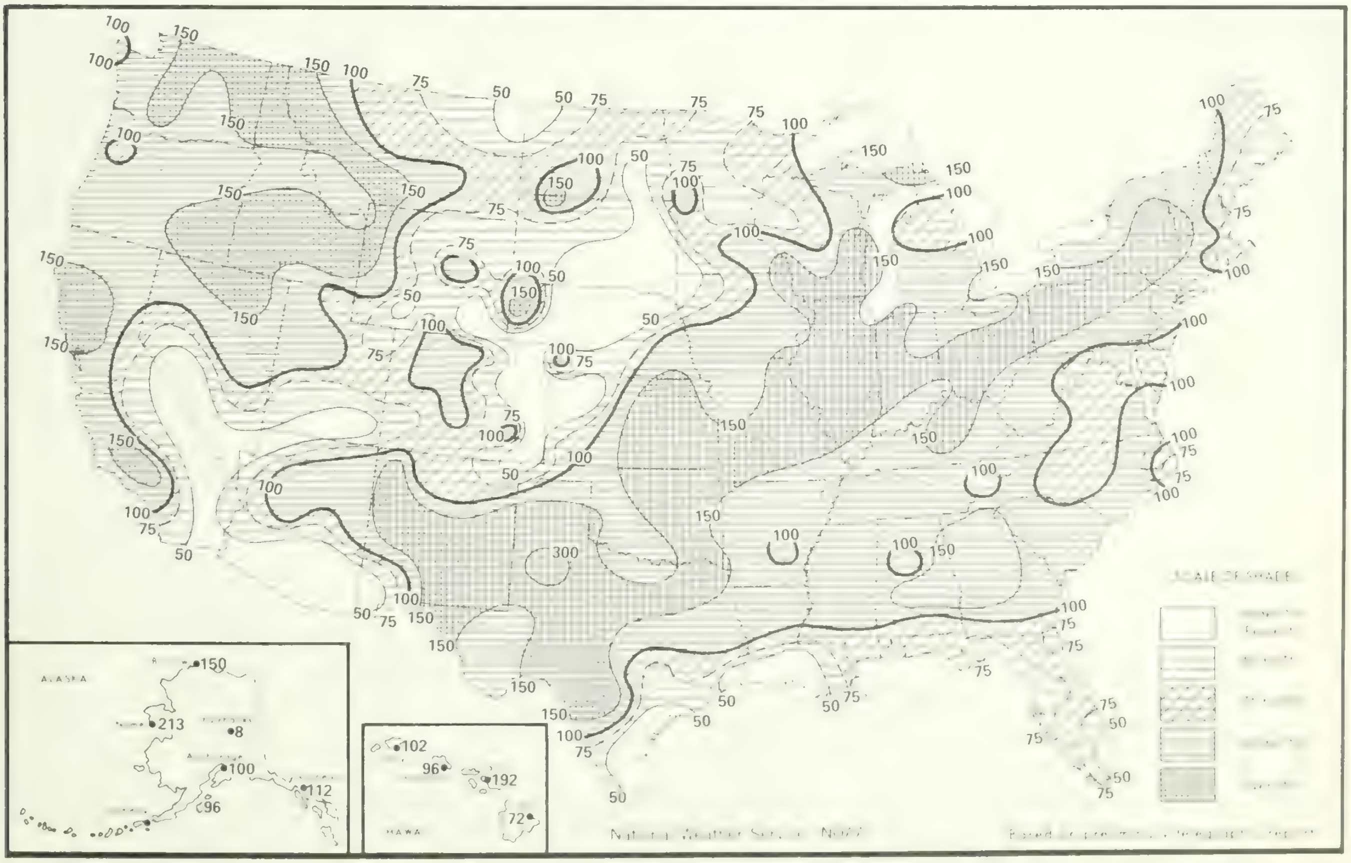
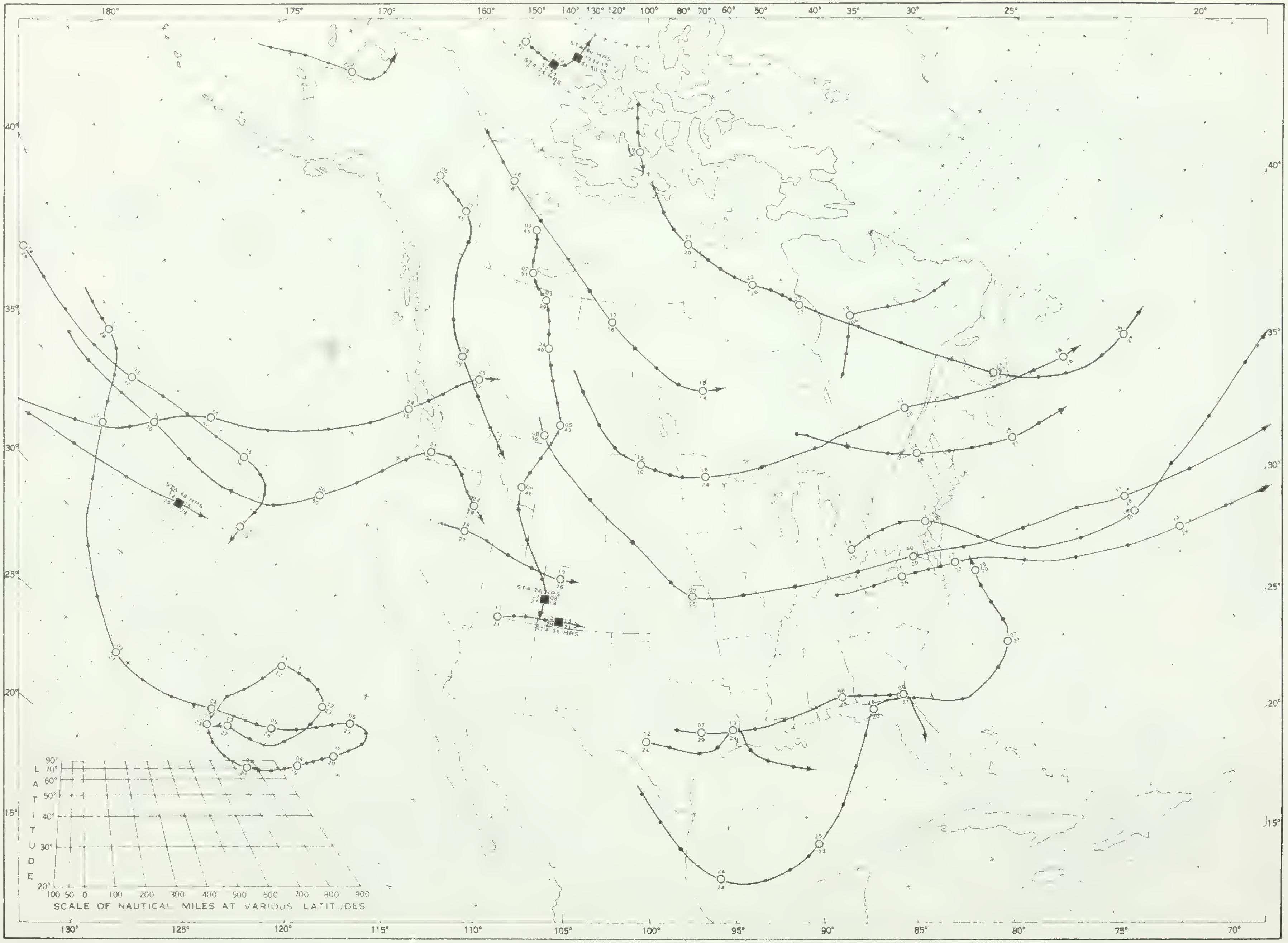
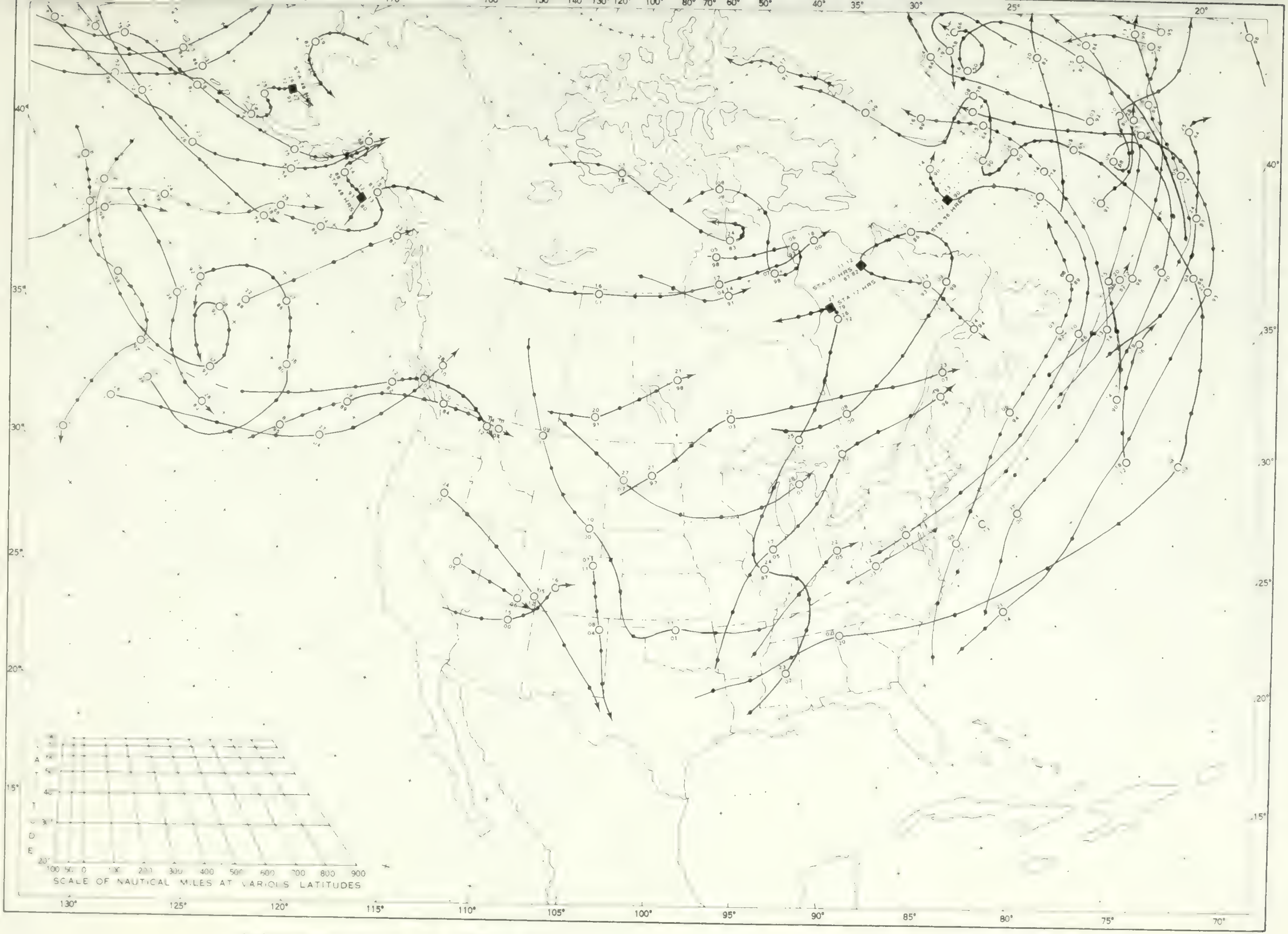

SCALE OF SHADES
ALASKA
150
213
8
100
112
96
HAWAII
102
96
192
72

Chart III. Tracks of Centers of Anticyclones at Sea Level, February 1975


180°
175°
170°
160°
150°
140°
130°
120°
100°
80°
70°
60°
50°
40°
35°
30°
25°
20°
40°
35°
30°
25°
20°
15°
130°
125°
120°
115°
110°
105°
100°
95°
90°
85°
80°
75°
70°
STA 60 HRS
STA 24 HRS
STA 24 HRS
STA 36 HRS
STA 48 HRS
LATITUDE
90°
70°
60°
50°
40°
30°
20°
100 50 0 100 200 300 400 500 600 700 800 900
SCALE OF NAUTICAL MILES AT VARIOUS LATITUDES

Circle indicates position of center at 7:00 a.m. E.S.T. Figure above circle indicates date, figure below, pressure to nearest millibar. Dots indicate intervening 6-hourly positions. Squares indicate position of stationary center for period shown. Dashed line in track indicates reformation at new position. Only those centers which could be identified for 24 hours or more are included.


STA 48 HRS
STA 30 HRS
STA 12 HRS
STA 36 HRS
SCALE OF NAUTICAL MILES AT VARIOUS LATITUDES
130°
125°
120°
115°
110°
105°
100°
95°
90°
85°
80°
75°
70°
40°
35°
30°
25°
20°
15°

Circle indicates position of center at 7:00 a.m. E.S.T. Figure above circle indicates date, figure below, pressure to nearest millibar. Dots indicate intervening 6-hourly positions. Squares indicate position of stationary center for period shown. Dashed line in track indicates reformation at new position. Only those centers which could be identified for 24 hours or more are included.

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CLIMATOLOGICAL DATA

NATIONAL SUMMARY

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NOTE: Late reports and corrections will be carried in the June and December issues of this publication. An explanatory page "Description of Charts' will be carried in the January and July issues.

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William H. Haggard

Director, National Climatic Center

CLIMATOLOGICAL DATA

NATIONAL SUMMARY

MARCH 1975

GENERAL SUMMARY OF WEATHER CONDITIONS

Dr. Richard E. Felch, Climatologist

HIGHLIGHTS: March lived up to the old adage of "in like a lion, out like a lamb".

Precipitation amounts ranged from 0.01 inch at Brownsville, Texas, to over 12.00 inches over most of Tennessee and parts of Kentucky, Alabama, and Mississippi. Nearly all of the Country received well above normal precipitation. The most notable exception was the southern and central Great Plains.

Temperatures over most of the Nation averaged well below normal during March. Most of Minnesota, western Wisconsin, and eastern Iowa were at least 6° below normal.

PRECIPITATION: A large stationary low off the West Coast triggered heavy rains during the first week of March. Rain and snow fell across the Great Lakes and New England as two low pressure systems swept through the area.

Extremely heavy precipitation fell over most southeastern States during the week ending on the 16th, as a combination of rain, snow, sleet, and freezing rain. At least 2 inches fell over most or all of 10 States. Over 5 inches fell in northern Mississippi and Alabama, all of Tennessee, and southern Kentucky. Two of the wettest cities were Memphis, Tenn., with 8.41, and Greensboro, N. C., with 5.15 inches for the week.

Heavy rains continued in the Deep South into the following week with 2 inches or more in southern Louisiana, Mississippi, Alabama, and Georgia. Good moisture also fell in the northern Great Plains. This moisture continued to accumulate through the end of the month. Although it fell as snow and created a number of problems, the moisture was badly needed.

Heavy rains again covered a large area of the Southeast during the closing week with at least 2 inches over parts or all of 12 States. Northern Tennessee and southern Kentucky received over 5 inches with serious flooding in some areas.

TEMPERATURE: Temperatures during the first 10 days of March averaged well below normal from the Rockies to the Atlantic. Eastern Iowa averaged at least 9° below normal, and most of the Southeast averaged at least 6° below normal.

Temperatures were well below normal over most of the Country with many areas 6° or more below normal during the week ending on the 16th. Record lows occurred the morning of the 13th, 14th and 15th in several States: Sioux Falls, S. Dak., reached -14° the morning of the 13th, Spencer, Iowa, -18°, Des Moines, Iowa, 2°, and Madison, Wis., -6°.

Temperatures changed drastically during the following week to well above normal over the entire Nation except for the western tier of States. However, temperatures began to cool sharply at the end of the week and bitter cold prevailed until the end of the month in most areas. Most States from the Dakotas to Utah averaged 13 to 18° below normal during the closing week.

OBSERVED EXTREMES OF TEMPERATURE AND PRECIPITATION -- BY STATES

MARCH 1975

STATE	Temperature						Precipitation			
	Monthly extremes						Monthly extremes			
	Station	Highest	Date	Station	Lowest	Date	Station	Greatest	Station	Least
		°F			°F			In.		In.
Alabama	Thorsby Exp. Station	89	22	Florence	12	3	Hodges	15.82	Aliceville	4.10
Alaska	2 Stations	51	28+	Kobuk	-54	21	Mac Ledd Harbor	11.32	2 Stations	T
Arizona	Dateland Whitewng Ranch	92	2+	Fort Valley	-17	28	Sunrise Mountain	6.37	Tacna 3 NE	.16
Arkansas	Harrison	85	22+	Gravette	8	14	West Memphis	15.83	Texarkana FAA AP	4.28
California	Indio U. S. Date Garden	93	4	White Mountain 1	-19	28	Branscomb 3 NNW	29.02	2 Stations	.00
Colorado	2 Stations	82	21	Elbert	-36	22	Wolf Creek Pass 1 E	9.51	Forder 8 S	T
Connecticut	Bulls Bridge Dam	65	19	Norfolk 2 SW	3	10+	Cockaponset Ranger Station	4.73	Norwalk Gas Plant	2.53
Delaware	Milford 2 WSW	75	22	Wilmgton Porter Reservoir	15	4	Dover	6.38	Newark University Farm	4.45
Florida	Mountain Lake	95	23	2 Stations	28	15+	Milton Exp. Station	7.94	Homestead Exp. Station	.15
Georgia	Jesup 8 S	89	12	Blairsville Exp. Station	11	4	Clayton 1 SSW	11.56	Patterson	2.99
Hawaii	Keawakapu Beach 260.2	89	19	Mauna Loa Slope Obs.	28	3+	Hilo Country Club 86.6	26.67	Holua Cabin 259.5	.00
Idaho	Swan Falls Power House	69	19	Warren	-24	28	Anderson Dam	5.24	Chilly Barton Flat	.15
Illinois	Marion 4 NNE	79	22	Mount Carroll	- 8	9	Rosiclare	10.15	La Salle 1 S	1.36
Indiana	3 Stations	77	22+	2 Stations	0	15+	Evans Landing	10.61	Prairie Heights	1.13
Iowa	3 Stations	75	23	Sibley	-19	13	Anamosa 1 WNW	3.83	Fairfield	.71
Kansas	Aetna 2 S	88	20	Hunter	-10	14	Columbus 6 NNW	4.38	2 Stations	.37
Kentucky	4 Stations	80	24+	Gray Hawk	10	5	Murray	16.04	Covington WSO AP	6.76
Louisiana	Oberlin Fire Tower	87	8	2 Stations	27	15+	Lake Providence	11.54	De Quincy 4 N	2.18
Maine	Springfield	55	20	2 Stations	-22	11+	Belfast	4.87	Fort Kent	1.54
Maryland	Salisbury	73	24	2 Stations	6	10+	Pocomoke City	7.73	Westernport UPRC	3.37
Massachusetts	Chester 2	64	25	Chester 2	- 2	10	Knightville Dam	4.76	Winchendon 2	2.35
Michigan	Monroe	68	25	Champion Van Riper Park	-20	10	Steuben 2 WNW	3.96	Kenton U. S. Forest	.88
Minnesota	Canby	64	19	Tower 3 S	-32	31	Two Harbors	3.98	Warroad	.49
Mississippi	2 Stations	88	13+	Tupelo 2 WNW	20	5	Pontotoc 5 E	16.30	Gulfport Naval Center	3.40
Missouri	2 Stations	84	22+	Maryville 2 E	- 1	15+	Caruthersville	14.18	Oregon	1.00
Montana	2 Stations	63	16	Wisdom	-23	28	Hebgen Dam	4.55	Wise River 3 WNW	.09
Nebraska	2 Stations	80	21+	Harrisburg 10 NW	-13	29	Brownlee	D 3.03	Niobrara 1 WSW	.12
Nevada	Sunrise Manor Las Vegas	84	1	Spring Valley State Park	-10	27	Mount Rose Bowl	11.86	Lathrop Wells 16 SSE	.40
New Hampshire	2 Stations	57	19	Mount Washington	-23	27	Mount Washington	15.95	Colebrook 2 E	1.55
New Jersey	5 Stations	70	25+	High Point Park	5	9	Seabrook Farms	6.35	Newark WSO AP	2.94
New Mexico	3 Stations	85	21+	Chama	-11	30	Brazos Lodge	5.10	2 Stations	.03
New York	New York Laurel Hill	66	25	Old Forge	-20	9	Slide Mountain	5.71	Hector	1.22
North Carolina	Sloan 3 S	86	24	Transou	0	3	Natahala	16.10	Hatteras	1.56
North Dakota	2 Stations	64	18+	Belcourt Indian Reservoir	-27	30	Fullerton 1 ESE	3.96	2 Stations	.31
Ohio	2 Stations	77	22+	2 Stations	- 4	9	Waterloo	7.20	Ottawa NWR	1.32
Oklahoma	2 Stations	90	20	3 Stations	8	15+	Tahlequah 1 SE	9.07	Boise City 2 E	.14
Oregon	Dayville	73	1	2 Stations	- 7	28+	Port Orford 5 E	18.86	Hermiston 2 S	.18
Pennsylvania	Philadelphia WSO AP	70	22	Bradford 4 W Reservoir	- 2	9	Huntsdale	5.92	Covington 2 WSW	1.22
Puerto Rico	Magueyes Island	93	6+	Adjuntas Substation	48	22+	Maricao 2 SSW	9.21	Magueyes Island	.35
Rhode Island	Newport	57	23	North Foster 1 E	9	9	North Foster 1 E	4.11	Newport	3.01
South Carolina	2 Stations	87	25+	Caesars Head	10	4	Caesars Head	17.77	Hilton Head	2.97
South Dakota	3 Stations	75	21+	Flandreau	-21	13	Clear Lake	4.21	Pactola Dam	.83
Tennessee	Coldwater	83	24	Oneida	7	5+	2 Stations	16.91	Unicoi 3 SW	8.31
Texas	3 Stations	103	29+	2 Stations	11	29+	Buffalo	9.60	32 Stations	.00
Utah	2 Stations	77	3+	Scofield	-20	29+	Silver Lake Brighton	9.23	Antimony	.26
Vermont	2 Stations	57	26+	Mount Mansfield	-15	9	Mount Mansfield	8.01	Rutland	1.96
Virginia	3 Stations	83	25+	Mt. Lake Biological Station	- 8	3	Randolph 5 NNE	11.87	Staunton Sewage Plant	3.25
Virgin Islands	Annaly	89	5	Beth Upper New Works	60	27	Catherineburg	6.47	Frederiksted	.12
Washington	2 Stations	67	29+	Lake Keechelus	0	28+	Quinault Ranger Station	13.78	Mc Nary Dam	.22
West Virginia	2 Stations	79	22	Seneca State Forest	- 3	9	Kopperston	10.89	Franklin 2 NE	3.66
Wisconsin	3 Stations	57	20+	Jump River 5 E	-22	13	Horicon	5.15	Madeline Island	.92
Wyoming	2 Stations	71	20+	Darwin Ranch	-29	29	Snake River	D 3.82	Bitter Creek 4 NE	D .05

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station		Pressure		Temperature												Precipitation							Wind					No. of days (sunrise to sunset)				
												No of days							No. of days		Snow, Ice pellets				Fastest mile (1.6 kilometers)							
	Elevation ground	Station	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min. 0 C or lower	Average dew point	Average relative humidity	Total	Departure from normal	Greatest in 24 hours	25 mm. or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
ALABAMA	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m s		m s							%
BIRMINGHAM	189	993.6	1016.3	18.4	5.8	12.2	0.3	29.4	23	-2.8	3	0	8	5.0	66	192	36	69	13	5	T	0	0.3	23	16.5	SW	18	4	7	20	7.5	50
HUNTSVILLE	190	992.9	1016.4	14.7	3.1	8.9	-1.5	28.3	23	-7.8	3	0	10	3.9	73	309	162	103	14	9	T	T	0.4	19	16.5	27	24	4	7	20	7.6	
MOBILE	64	1008.1	1016.0	21.3	10.6	15.9	0.7	28.3	24	0.6	5	0	0	10.6	74	189	10	67	13	6	0	0	1.0	15	13.0	19	12	6	9	16	7.1	
MONTGOMERY	59	1009.5	1016.9	19.9	8.0	13.9	0.3	28.3	13	-1.1	5	0	1	7.2	67	184	31	61	13	8	0	0	0.5	26	15.2	NW	13	4	9	18	7.2	58
ALASKA												B																				
ANCHORAGE	35	1004.7	1009.8	-0.9	-9.7	-5.3	-0.7	6.1	28	-18.9	3	0	31	-10.0	69	14	-1	4	11	0	211	432	0.8	35	10.3	22	29	6	8	17	7.0	56
ANNETTE	34	1006.1	1012.4	4.6	-1.2	1.7	-1.8	10.6	21	-3.9	26+	0	24	-4.4	67	113	-120	24	19	0	152	25	1.3	11	10.7	14	13	3	5	23	8.0	
BARROW	9	1016.6	1017.2	-18.9	-24.7	-21.8	4.4	-10.6	6	-31.7	26+	0	31	-23.9	81	4	-1	1	11	0	61	178	3.7	9	13.0	6	29	8	7	16	6.2	
BARTER ISLAND	12	1015.6	1017.5	-18.4	-25.8	-22.1	3.8	-9.4	12+	-34.4	16	0	31	-23.9	81	1	-6	T	2	0	20	127	4.1	10	27.3	9	29	14	5	12	4.9	
BETHEL	38	1004.7	1010.5	-7.5	-16.7	-12.1	-0.6	4.4	13	-35.0	22	0	31	-15.0	78	6	-14	3	7	0	112	279	0.8	13	21.0	18	27	12	4	15	6.0	
BETTLES	194			-8.9	-20.1	-14.5	2.4	1.1	28	-37.2	19	0	31			7	-13	2	7		94	593			10.3	8	28+	8	4	19	6.8	
BIG DELTA	384			-4.0	-17.1	-10.5	0.4	7.8	27	-28.3	25	0	31			9	1	5	2		150	305										
COLD BAY	29	1004.1	1007.5	-0.1	-5.7	-2.9	-1.2	5.6	12+	-16.7	22	0	27	-5.6	82	72	23	20	22	0	521	178	1.1	16	23.2	12	7	2	6	23	8.3	
FAIRBANKS	133	994.9	1012.6	-3.1	-18.5	-10.8	1.7	7.8	28	-25.6	25	0	31	-18.3	56	6	-7	2	6	0	127	686	0.4	3	8.0	23	29	11	5	15	5.5	
GULKANA	479			-3.2	-21.0	-12.1	-2.3	7.2	28	-31.1	9+	0	31			1	-7	1	2		8	457										
HOMER	19	1005.1	1007.8	1.1	-7.8	-3.3		7.2	27	-18.3	23+	0	30	-6.7	76	42	11	14	13	0	434	356	0.4	5	15.6	22	29+	7	9	15	6.5	
JUNEAU	4	1011.2	1011.9	3.0	-4.6	-0.8	-0.7	7.2	21	-10.6	26+	0	31	-5.6	75	55	-36	25	14	0	480	152	2.5	11	14.3	12	23+	4	4	23	8.0	42
KING SALMON	15	1007.1	1009.2	-4.5	-15.0	-9.7	-3.3	4.4	26	-34.4	23	0	31	-12.8	77	24	-6	12	10	0	221	381	0.9	8	19.7	11	26	10	4	17	6.5	
KODIAK	4	1003.4	1007.7	0.6	-5.8	-2.4	-2.5	6.1	28	-16.1	25+	0	31	-7.2	72	105	7	17	15	0	599	127	2.5	31	17.9	30	18	11	3	17	6.3	
KOTZEBUE	5	1012.2	1012.8	-10.8	-19.1	-14.9	3.1	-0.6	11	-37.8	20	0	31	-17.8	76	4	-4	1	10	0	58	610	4.1	11	17.4	9	27	8	8	15	6.6	
MC GRATH	104	998.5	1012.0	-5.8	-22.2	-13.9	-1.1	6.7	27	-40.6	21	0	31	-18.3	66	12	-10	8	7	0	175	787	1.0	32	9.4	8	26	7	10	14	6.1	
NOME	4	1009.6	1010.5	-9.4	-18.6	-13.9	-0.3	4.4	13	-42.2	22	0	31	-15.6	85	17	-3	7	16	0	203	889	3.5	9	13.9	6	26+	8	3	20	6.9	35
ST. PAUL ISLAND	7	1006.1	1007.0	-3.9	-9.8	-6.8	-2.3	1.7	10+	-25.6	24	0	31	-7.8	89	26	-6	4	24	0	257	533	1.2	1	25.0	34	26	3	11	17	7.0	
SUMMIT	731			-8.6	-16.6	-12.6	-1.0	2.2	28	-23.9	2	0	31			14	-13	4	9	0	198	838			13.4	6	22	9	3	19	6.8	
TALKEETNA	105			-0.4	-16.6	-8.4	-1.8	7.8	28	-28.9	20+	0	31			30	-9	14	12	0	632	1168			9.4	2	10					
UNALAKLEET	9			-6.9	-14.9	-10.9		2.2	11	-33.9	20	0	31			5		1	7		56	229			17.4	8	9					
YAKUTAT	9	1009.1	1010.1	2.5	-8.4	-2.9	-2.0	5.6	1	-19.4	25	0	30	-6.1	78	144	-100	40	16	0	1557	1372	1.4	9	13.4	13	23	9	3	19	6.6	
ARIZONA																																
FLAGSTAFF	2138	782.6	1012.8	7.1	-5.8	0.7	-0.6	16.1	1	-21.7	28	0	30	-8.9	53	74	28	16	14	1	739	229	2.5	22	14.8	SW	22	8	8	15	6.3	69
PHOENIX	340	973.5	1012.7	22.2	7.7	15.0	-0.4	29.4	1	3.9	28+	0	0	-0.6	41	16	-3	6	4	0	0	0	0.6	19	21.5Y	SW	5	13	8	10	4.7	82
TUCSON	788	923.8	1011.9	20.6	5.3	12.9	-1.3	28.9	1	-0.6	29	0	1	-1.7	42	24	8	12	7	0	13	0	1.7	22	16.1	NW	8	16	4	11	4.7	85
WINSLOW	1492	847.6	1012.9	14.4	-1.7	6.3	-0.8	22.2	20+	-10.0	30	0	22	-4.4	53	19	7	8	5	1	94	25	3.3	22	25.9	22	22	11	7	13	5.6	
YUMA	59	1005.8	1013.1	23.5	9.1	16.3	-1.4	30.6	4	5.6	17+	0	0	0.0	38	5	0	4	3	1	0	0	1.2	29	17.0	W	25	18	7	6	3.5	88
ARKANSAS																																
FORT SMITH	134	998.5	1015.4	13.8	2.6	8.2	-2.0	28.3	21	-6.7	14	0	6	1.1	66	170	78	53	16	8	46	T	1.0	2	17.0	NW	27	7	8	16	6.8	52
LITTLE ROCK	78	1006.1	1015.7	14.3	4.2	9.3	-0.9	26.7	20	-3.3	14	0	5	2.2	66	195	70	60	14	8	61	51	0.7	36	15.6	NW	24+	7	6	18	7.1	64
CALIFORNIA																																
BAKERSFIELD	145	996.0	1015.6	19.7	8.2	13.9	0.3	28.9	1	3.3	17	0	0	3.9	56	15	-6	8	8	0	0	0	0.7	36	14.3	15	7	10	11	10	5.5	
BISHOP	1252	870.0		14.9	-1.4	6.8	-1.2	22.8	30	-8.3	28	0	21			18	7	8	6		T	0			25.9Y		7	10	13	8	5.1	
BLUE CANYON	1609	834.7		4.3	-2.1	1.1	-2.2	16.1	3	-7.8	28+	0	26			415	197	86	19		2362	1905	2.0	18	13.9	18	21	7	4	20	7.4	
EUREKA	18			11.4	5.9	8.7	-0.4	16.1	7	2.8	28+	0	0			273	150	102	18		0	0			20.6	NW	25	6	7	16	6.7	55
FRESNO	100	1004.1	1016.0	16.6	5.1	10.8	-1.3	26.1	1	0.0	27	0	1	5.0	72	62	21	11	13	0	0	0	0.5	33	13.9	S	7	7	9	15	6.5	67
LONG BEACH	9	1014.2	1015.7	18.1	9.5	13.8	-0.2	23.3	30	3.9	29	0	0	7.2	69	91	53	27	9	3	0	0	1.5	23	14.8	26	25	11	8	12	5.3	
LOS ANGELES	30	1011.9	1015.4	16.4	9.9	13.2	-0.4	21.1	30	6.1	29	0	0	7.8	75	76	32	30	10	2	0	0	1.5	25	20.6Y	W	25	11	9	11	5.5	
LOS ANGELES	82			17.2	9.1	13.2	-1.9	23.3	3	5.0	14	0	0			123	67	43	12		0	0			12.1	NW	26	12	5	14	5.3	
MT SHASTA R	1080	889.6	1015.2	6.9	-1.3	2.8	-1.8	15.6	29	-8.3	28	0	23			250	147	59	17		1013	330	0.4	7								
OAKLAND	2	1014.3	1016.5	15.3	8.6	12.0	-0.1	21.1	3	4.4	13	0	0		72	129	70	27	18	0	0	0	1.3	24	14.3	15	7	9	6	16	6.3	
RED BLUFF	104	1002.4	1015.3	14.7	5.5	10.1	-1.7	24.4	29	1.7	22	0	0	3.3	70	120	56	27	18	0	0	0	1.3	16	18.8	SE	21	6	6	17	6.9	63
SACRAMENTO	5	1014.9	1015.7	14.7	5.6	10.2	-1.5	20.6	29	1.1	20	0	0	2.8	66	109	54	29	16	0	0	0	0.9	22	19.2	N	25	6	10	15	6.6	52
SANDBERG R	1377	859.5		7.7	0.4	4.1	-2.4	16.1	4+	-5.6	28	0	16			154	120	51	10		191	76	2.2	33	33.1	34	25	7	6	18	6.9	
SAN DIEGO	4	1015.2	1016.3	17.6	10.7	14.2	-0.3	21.7	30	6.7	12	0	0	7.2	66	96	57	44	8	0	0	0	1.4	26	11.6	SW	14	10	8	13	5.8	69
SAN FRANCISCO	2	1015.6	1016.3	14.6	6.9	10.8	-0.9	18.9	3	2.8	14	0	0	5.0	70	150	86	47	16	0	0	0	2.3	27	16.5	29	25+	10	6	15	6.5	
SAN FRANCISCO	16			14.3	9.1	11.7	-0.7	20.0	3	4.4	13	0	0			131	60	33	19													
SANTA MARIA	72			15.4	4.9	10.2	-1.4	21.1	3	-1.7	29	0	3			77	26	26	12		0	0						8	14	9	5.5	
STOCKTON	7	1014.9	1016.1	15.8	5.6	10.7	-0.8	21.7	30	1.7	29+	0	0	5.6	73	78	28	22	15	0	0	0	1.1	28	15.6	32	25	6	7	18	6.8	
COLORADO																																
ALAMOSA	2297	755.0		7.8	-8.0	-0.1	0.4	15.6	20	-15.0	28	0	31			13	4	5	8		165	25						7	17	7	5.4	

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure: Station	Pressure: Sea level	Temperature: Average maximum	Temperature: Average minimum	Temperature: Average	Temperature: Departure from normal	Temperature: Highest	Temperature: Date	Temperature: Lowest	Temperature: Date	Temperature: No of days: Max 32.2 °C or above	Temperature: No of days: Min. 0 C or lower	Average dew point	Average relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	Precipitation: No of days: 25 mm or more	Precipitation: No of days: With thunderstorms	Snow, Ice pellets: Total	Snow, Ice pellets: Maximum depth on ground	Wind: Resultant speed	Wind: Resultant direction	Wind: Fastest mile (1.6 kilometers): Speed	Wind: Fastest mile: Direction	Wind: Fastest mile: Date	No of days (sunrise to sunset): Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
COLORADO																																
COLORADO SPRINGS	1873	804.3	1011.2	9.2	-5.2	2.0	0.2	21.1	20	-16.1	29	0	27	-9.4	49	6	-13	3	7	1	89	51	1.0	1	19.2	35	9	6	10	15	6.6	
DENVER	1610	829.7	1009.2	10.2	-4.4	2.9	0.2	21.7	20	-15.6	28	0	27	-7.8	53	30	-1	11	10	0	363	152	0.5	32	17.0	W	22	5	11	15	6.7	57
GRAND JUNCTION	1476	846.9	1010.9	10.9	-0.9	5.0	-0.1	18.3	20	-11.7	28	0	17	-4.4	56	44	25	13	10	1	224	102	0.4	9	21.0	SW	20	6	5	20	7.4	63
PUEBLO	1428	849.0	1009.5	12.9	-3.6	4.7	0.3	25.0	19	-13.9	29	0	25	-6.7	53	3	-14	2	5	1	36	25	1.1	33	25.5	N	26	8	8	15	6.4	85
CONNECTICUT																																
BRIDGEPORT	2	1012.9	1013.6	6.4	-1.1	2.7	-0.6	13.3	23	-9.4	9	0	20	-2.8	69	77	-11	17	16	0	46	25	3.0	33	14.3	34	8	6	7	18	7.2	
HARTFORD	52	1006.8	1013.4	7.3	-3.0	2.2	0.2	15.6	19	-10.0	9	0	24	-6.1	57	97	0	52	15	0	64	25	2.5	32	14.3	NW	26	2	12	17	7.4	58
DELAWARE																																
WILMINGTON	23	1011.5	1014.5	9.7	-0.2	4.8	-0.6	18.3	25+	-7.8	9	0	16	-3.3	59	118	23	51	9	1	28	T	2.1	31	16.1	32	20	3	10	18	7.4	
DIST.OF COLUMBIA																																
WASHINGTON DULLES	88	1003.4	1015.3	10.1	-0.8	4.6	-0.8	18.9	22	-10.0	5	0	18	-3.3	60	111	23	28	13	1	30	T	2.1	31	14.8	30	30	4	11	16	7.3	
WASHINGTON NATIONAL	3	1012.9	1015.3	11.9	2.7	7.3	0.1	19.4	22+	-6.1	9	0	8	-1.7	56	135	51	34	12	2	8	T	2.0	31	15.6	NW	20	3	13	15	7.2	50
FLORIDA																																
APALACHICOLA U	4			20.1	12.4	16.3	0.3	26.1	30	3.3	3	0	0			73	-46	34	8	3	T	0			13.9	S	18	10	8	13	6.1	63
DAYTONA BEACH	9	1016.3	1017.8	24.4	12.8	18.7	0.9	32.2	30	3.3	4	1	0	12.8	70	39	-47	19	7	2	0	0	0.6	20	11.2	25	19	11	8	12	5.5	
FORT MYERS	5	1016.9		28.7	15.0	21.8	1.6	32.8	28	5.0	4	3	0	15.0	70	37	-40	30	4	1	0	0	0.7	17	10.3	23	24	9	12	10	5.1	
JACKSONVILLE	8	1016.6	1017.6	22.4	9.2	15.8	-0.4	30.6	24	-0.6	3	0	2	10.6	72	62	-28	27	10	4	T	0	0.8	25	16.1	SW	14	7	11	13	6.1	68
KEY WEST	1	1016.3	1017.0	27.1	22.3	24.7	1.1	29.4	30+	17.8	9+	0	0	19.4	73	15	-25	8	6	1	0	0	2.7	12	12.5	S	5	13	13	5	4.3	92
LAKELAND U	65			26.1	14.2	20.2	1.1	30.6	24	4.4	4	0	0			35	-67	14	5		0	0						12	11	8	4.7	88
MIAMI	2	1017.6	1017.7	27.1	18.8	23.0	1.2	31.7	25	8.9	3	0	0	16.1	66	15	-37	11	4	1	0	0	1.6	11	13.4	23	19	9	13	9	5.1	
ORLANDO/MC COY AFB	29	1013.9	1017.7	26.4	12.9	19.7	0.8	32.2	30+	3.9	4	2	0	12.8	69	28	-60	13	6	3	0	0	0.4	22	12.5	27	19	13	7	11	5.1	
PENSACOLA	34	1012.2	1016.6	21.3	11.6	16.4	0.9	27.8	22	2.8	5	0	0	10.6	72	154	-6	81	10	3	0	0	1.0	14	10.7	22	24	7	6	18	7.0	
TALLAHASSEE	17	1014.9	1017.3	22.4	8.7	15.6	-0.2	28.3	24+	-0.6	4+	0	3	10.0	72	157	6	85	11	6	T	0	0.4	18	12.1	19	24	6	11	14	6.5	
TAMPA	6	1017.3	1017.5	25.9	13.6	19.8	0.9	30.6	28	3.3	4	0	0	12.2	65	28	-71	11	7	3	0	0	0.5	17	8.9	21	24+	14	7	10	5.2	84
WEST PALM BEACH	5	1016.9	1017.5	27.4	16.8	22.1	1.1	32.2	30+	7.2	4	2	0	15.6	70	22	-63	13	5	1	0	0	1.5	14	11.2	27	19+	6	14	11	5.8	
GEORGIA																																
ATHENS	244	987.1	1016.2	16.8	4.6	10.7	-0.3	26.7	21	-6.7	3	0	7	3.9	69	257	112	104	15	8	T	T	1.1	26	13.4	18	13	7	3	21	7.2	
ATLANTA	308	979.0	1016.1	16.3	4.2	10.3	-0.3	26.7	23	-6.7	3	0	9	2.8	66	211	63	49	11	6	T	T	0.7	27	16.1	SW	1	7	5	19	7.3	49
AUGUSTA	41	1011.2	1016.4	18.6	4.8	11.7	-0.8	28.3	13	-6.7	4+	0	7	3.9	63	133	14	37	12	3	T	0	1.1	25	15.6	30	7	9	7	15	6.3	
COLUMBUS	117	1002.7		19.9	6.7	13.3	0.3	28.3	23	-2.8	3	0	6	6.1	68	186	33	57	10	8	0	0	0.4	29	13.9	13	16	6	8	17	7.0	
MACON	108	1004.1	1017.1	19.7	6.5	13.1	-0.5	28.9	23	-3.9	3	0	6	6.1	67	169	38	59	10	6	0	0	0.9	26	13.0	NW	25	8	6	17	6.7	52
ROME	194			16.4	3.7	10.1	-0.2	27.2	21	-6.1	4+	0	10			226	70	59	14		T	T										
SAVANNAH	14	1015.6	1017.4	21.4	9.1	15.3	0.8	29.4	24	-2.2	4+	0	2	8.3	68	101	-11	29	10	8	0	0	0.8	25	13.4	W	7	8	8	15	6.4	61
HAWAII																																
HILO	8	1018.3	1019.5	25.6	17.9	21.8	0.1	28.9	29+	15.6	2	0	0	16.7	77	264	-84	65	28	0	0	0	0.8	16	9.4	SE	30+	2	7	22	8.2	35
HONOLULU	2	1018.0	1018.5	26.9	18.6	22.8	0.0	28.9	7	14.4	29	0	0	16.7	70	51	-29	36	8	0	0	0	4.3	6	12.5	NE	20	3	16	12	6.9	49
KAHULUI	15	1015.6	1018.0	26.9	17.5	22.2	-0.1	30.0	24	14.4	27+	0	0			48	-25	36	7	0	0	0	5.1	6	13.4	NE	20	8	12	11	6.1	59
LIHUE	31	1014.2	1019.5	25.3	19.8	22.6	0.5	26.7	27+	13.3	30	0	0	17.2	73	85	-33	55	16	0	0	0	5.1	7	10.3	NE	19+	3	14	14	7.1	55
IDAHO																																
BOISE	865	912.0	1013.1	10.2	0.3	5.3	0.2	16.7	1	-7.2	28	0	13	-2.2	62	49	23	10	13	1	56	T	0.4	1	16.5	NW	25	4	7	20	7.7	64
LEWISTON	431			9.9	0.1	5.0	-1.1	16.1	1	-7.2	28	0	17			25	1	9	12		T	T			24.6Y		30	2	5	24	8.5	
POCATELLO	1358	858.5	1013.4	6.6	-2.7	1.9	0.1	15.6	19	-14.4	28	0	25	-3.9	68	43	20	17	15	1	211	76	3.0	22	16.5	SW	30+	1	7	23	8.2	56
ILLINOIS																																
CAIRO U	96			10.8	3.0	6.9	-1.9	21.7	20	-5.0	3	0	10			255	134	98	16		310	102			19.7	SW	24					51
CHICAGO O HARE	201	990.2	1015.2	5.6	-3.3	1.2	-0.9	21.1	21	-10.6	4+	0	24	-3.9	71	51	-13	20	13	2	114	51	0.9	30	13.4	27	30	3	8	20	7.4	
CHICAGO MIDWAY	185	992.6	1015.8	5.7	-3.3	1.2	-1.4	23.3	21	-11.1	9	0	24	-5.0	66	62	-7	21	14	4	114	51	0.6	30	13.9	SE	23	6	7	18	6.9	59
MOLINE	177	993.9	1016.1	4.1	-5.6	-0.8	-2.8	20.6	21	-15.0	4	0	27	-5.6	72	84	19	28	14	4	310	76	1.1	29	15.2	SW	24+	5	11	15	6.8	55
PEORIA	199	991.2	1016.0	5.7	-3.7	1.0	-1.9	23.3	21	-12.8	4	0	23	-3.3	74	44	-27	19	9	1	97	76	0.9	27	15.2	SW	24	5	7	19	7.3	62
ROCKFORD	221	988.2	1016.0	2.9	-6.1	-1.6	-2.7	16.1	21	-15.6	9	0	25	-6.1	71	71	4	23	14	3	213	152	0.8	33	13.4	9	23	4	10	17	7.2	
SPRINGFIELD	179	993.2	1016.0	7.9	-1.9	3.0	-1.1	23.9	21	-9.4	3	0	22	-2.8	68	49	-20	25	10	3	114	76	1.0	29	17.9	SW	24	4	6	21	7.6	50
INDIANA																																
EVANSVILLE	116	1001.7	1016.1	10.6	1.1	5.9	-0.9	24.4	21	-5.6	15+	0	14	0.6	70	182	63	32	17	8	338	178	0.8	32	18.8	S	6	3	7	21	7.9	47
FORT WAYNE	241	985.1	1015.8	5.1	-3.9	0.6	-1.9	17.2	21	-16.1	15	0	26	-3.9	73	52	-22	15	12	3	234	102	0.8	30	16.5	W	30	2	7	22	7.8	58

CLIMATOLOGICAL DATA

METRIC UNITS

		[illegible]		Temperature												Precipitation							Wind					No. of days (sunrise to sunset)				
												No. of days							No. of days		Snow Ice pellets				Fastest mile (1.6 kilometers)							
State and station	[illegible]	[illegible]	[illegible]	Average [illegible]	Average [illegible]	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min 0 °C or lower	Average dew point	Average relative humidity	Total	Departure from normal	Greatest in 24 hours	25 mm or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy 4-7	Cloudy 8-10	Sky cover tenths sunrise to sunset	Possible sunshine
	[illegible]	[illegible]	[illegible]				C	C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
[illegible]																																
[illegible]	[illegible]	[illegible]	[illegible]	7.1	[illegible]	2.1	-1.5	[illegible]	21	-14.4	15	0	19	-1.1	77	106	[illegible]	29	20	7	267	127	[illegible]	27	14.3	SW	25+	4	7	20	7.7	52
[illegible]	[illegible]	[illegible]	[illegible]	5.7	[illegible]	1.3	[illegible]	17.8	21	-10.5	9	0	24	[illegible]	73	75	5	22	19	2	452	178	[illegible]	27	13.4	28	30+	5	6	20	7.8	
[illegible]																																
[illegible]	[illegible]			[illegible]	-4.6	[illegible]	-2.5	[illegible]	[illegible]	-13.3	13+	0	25	[illegible]	74	67	-5	25	12	3	97	81	1.2	32	13.4	[illegible]	24	6	9	16	6.7	
[illegible]	[illegible]	[illegible]	[illegible]	3.1	-5.7	[illegible]	-2.3	17.2	[illegible]	-16.7	13	0	25	-6.1	69	48	[illegible]	29	12	3	142	76	0.8	32	17.4	SW	24	6	10	15	6.7	54
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	-4.2	[illegible]	31+	[illegible]	13+	0	26			[illegible]	9	22	14		[illegible]	356										
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-1.5	-2.3	[illegible]	[illegible]	[illegible]	13	0	28	-6.1	72	[illegible]	-1	19	9	1	173	76	[illegible]	6	19.2	NW	24	5	9	17	6.9	54
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-3.9	-3.7	9.4	31+	[illegible]	13	0	27	[illegible]	71	[illegible]	3	22	13	2	[illegible]	279	[illegible]	35	14.8	12	27+	8	7	16	6.6	
[illegible]																																
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.5	[illegible]	[illegible]	[illegible]	[illegible]	14	0	27	[illegible]	76	37	-2	19	6	2	218	178	[illegible]	4	18.8	SW	27+	6	10	15	6.7	67
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.5	[illegible]	[illegible]	[illegible]	[illegible]	13	0	23	[illegible]	63	[illegible]	-13	6	6	1	[illegible]	25	[illegible]	12	19.2	SE	26+	7	9	15	6.4	64
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.5	[illegible]	[illegible]	[illegible]	[illegible]	27+	0	28	-6.1	63	[illegible]	-6	12	5	1	94	51	[illegible]	21	19.7	32	27	9	6	16	6.7	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.2	[illegible]	[illegible]	[illegible]	[illegible]	14	0	23	[illegible]	[illegible]	[illegible]	[illegible]	24	6	3	198	203	[illegible]	34	17.4	[illegible]	24	7	7	17	6.9	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.7	[illegible]	[illegible]	[illegible]	-12.2	14	0	18	[illegible]	69	44	-2	24	9	3	193	152	[illegible]	9	21.9	NW	23	9	4	18	6.8	[illegible]
[illegible]																																
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.3	[illegible]	[illegible]	21	[illegible]	9	0	17	-1.7	[illegible]	172	[illegible]	[illegible]	14	7	173	[illegible]	[illegible]	26	15.6	23	24	3	6	22	7.8	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21	-6.7	4	0	15	[illegible]	[illegible]	264	142	[illegible]	16	8	[illegible]	76	[illegible]	22	13.0	24	24	2	10	19	7.9	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-6.1	2	0	14	[illegible]	68	[illegible]	117	[illegible]	18	9	254	76	1.2	27	14.3	NW	7	1	9	21	[illegible]	[illegible]
[illegible]																																
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5	0	1	9.9	72	138	12	44	11	7	[illegible]	0	[illegible]	15	11.2	25	18	7	6	16	6.9	
[illegible]	[illegible]	[illegible]	[illegible]	21.5	[illegible]	15.6	[illegible]	[illegible]	24+	[illegible]	5	0	1	[illegible]	73	114	-17	32	12	5	0	0	1.3	14	14.3	18	28	8	3	20	[illegible]	
[illegible]	4	[illegible]	[illegible]	21.6	[illegible]	15.2	[illegible]	[illegible]	7	1.7	14+	0	0	11.7	80	61	-36	24	8	5	0	0	1.8	12	16.5	25	18	6	3	[illegible]	[illegible]	
[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.2	5	0	0	12.8	81	135	-4	46	9	4	0	0	1.3	14	12.5	27	18+	5	7	19	7.2	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13.1	[illegible]	[illegible]	22	-1.1	14	0	1	[illegible]	67	148	44	[illegible]	14	7	T	0	[illegible]	9	13.0	13	9	5	7	19	[illegible]	41
[illegible]																																
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	-4.7	[illegible]	9.4	[illegible]	[illegible]	6	0	30			49	-7	15	17		[illegible]	533						[illegible]	5	16	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9.4	[illegible]	-13.3	10+	0	29	-5.1	70	81	[illegible]	24	17	0	[illegible]	76	[illegible]	31	15.2	NW	31+	6	3	20	7.2	49
[illegible]																																
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.5	[illegible]	19.4	[illegible]	[illegible]	9	0	15	[illegible]	59	131	38	40	12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18.8	NW	[illegible]	3	14	14	[illegible]	51
[illegible]																																
[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9	0	22			[illegible]	-24	[illegible]	14		[illegible]	81			26.8	NW	31					[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9	0	18	[illegible]	60	[illegible]	-32	[illegible]	16	1	46	25	2.6	[illegible]	[illegible]	NW	31	9	4	18	6.8	[illegible]
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	11.7	25	[illegible]	9	0	29	[illegible]	60	[illegible]	-12	44	13	0	124	76	2.9	31	15.6	32	[illegible]	6	8	17	[illegible]	
[illegible]																																
[illegible]	[illegible]	[illegible]	[illegible]	1.3	[illegible]	-3.7	[illegible]	9.4	16	-19.4	14+	0	[illegible]	[illegible]	68	57	10	[illegible]	15	0	[illegible]	284	0.6	32	13.0	NE	24	7	5	19	6.9	[illegible]
[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-9.4	9	0	24	[illegible]	61					[illegible]			0.9	31	13.9	[illegible]	[illegible]					
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24	-12.2	9	0	26	-4.4	72	42	-21	14	13	1	114	81	[illegible]	32	23.2	SW	24	4	6	21	7.7	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-17.8	9	0	27	-5.6	71	[illegible]	[illegible]	23	15	2	[illegible]	76	0.6	[illegible]	11.2	16	[illegible]	4	4	23	7.9	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-2.4	[illegible]	[illegible]	[illegible]	9	0	30	[illegible]	[illegible]	58	[illegible]	20	13	3	[illegible]	102	0.3	35	14.8	SW	24	5	2	24	7.9	44
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-9.4	-4.5	[illegible]	8.9	[illegible]	[illegible]	[illegible]	0	31	-7.9	74	38	-6	8	13	0	356	203	0.4	35	13.0	8	24	6	3	22	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24	-17.2	9	0	29	[illegible]	79	62	[illegible]	25	16	2	[illegible]	76	0.6	27	15.2	SW	24	4	3	24	[illegible]	37
[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-12.5	31	0	29			54	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]			12.1	[illegible]	25	4	7	[illegible]	7.7	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.7	[illegible]	[illegible]	[illegible]	[illegible]	-12.2	9	0	28	[illegible]	59	[illegible]	4	16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	35	13.9	12	[illegible]	4	8	19	7.7	
[illegible]	[illegible]	[illegible]	[illegible]	-1.1	[illegible]	[illegible]	[illegible]	7.2	[illegible]	-19.4	25	0	31	[illegible]	65	57	13	26	12	0	[illegible]	[illegible]	0.8	[illegible]	13.0	SE	28	7	8	15	6.6	65
[illegible]																																
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]	[illegible]	72	56	[illegible]	[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]	35	24.1	NE	23	4	[illegible]	17	6.9	49
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31	0	[illegible]	[illegible]	[illegible]	39	11	14	9	0	[illegible]	635	[illegible]	28	13.9	3	24	7	7	17	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-5.4	[illegible]	21+	[illegible]	13	0	[illegible]	-8.9	75	42	[illegible]	16	12	[illegible]	[illegible]	472	[illegible]	36	17.0	E	23	6	5	16	6.6	57
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-3.8	[illegible]	[illegible]	-22.0	14+	0	30	-8.9	78	45	2	12	15	[illegible]	[illegible]	406	[illegible]	25	20.6	11	27	10	6	15	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-7.3	-3.9	[illegible]	[illegible]	[illegible]	13	0	31			44	11	17	13		493	406						[illegible]	7	17	6.5	
[illegible]																																
[illegible]	[illegible]	[illegible]	[illegible]	20.3	[illegible]	[illegible]	[illegible]	30.6	11	-3.3	5	0	2	7.4	[illegible]	[illegible]	[illegible]	42	11	6	T	0	[illegible]	20	13.4	SE	27+	8	7	16	6.6	53

CLIMATOLOGICAL DATA
METRIC UNITS

State and Station		Pressure		Temperature												Precipitation							Wind					No. of days (sunrise to sunset)				
												No. of days							No of days		Snow, Ice pellets				Fastest mile (1.6 kilometers)							
	Elevation (ground)	Station	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min. 0 C or lower	Average dew point	Average relative humidity	Total	Departure from normal	Greatest in 24 hours	25 mm or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m s		m s							%
MISSISSIPPI																																
MERIDIAN	88	1005.1	1016.2	20.2	5.6	12.9	-0.5	27.8	12	-4.4	5	0	6	6.7	71	182	24	57	14	7	T	T	0.8	21	13.0	18	24	4	8	19	7.4	
MISSOURI																																
COLUMBIA REGIONAL	270	982.7	1015.9	8.3	-2.4	2.9	-2.4	26.1	21	-9.4	3	0	23	-3.9	64	82	17	45	8	4	94	102	0.4	29	17.9	SW	24	4	9	18	7.2	55
KANSAS CITY	309	977.3	1015.2	8.0	-3.1	2.5	-2.6	25.6	23	-13.3	14	0	21	-3.9	66	38	-27	21	8	2	150	127	0.2	26	17.0	NW	24	8	10	13	6.1	67
ST JOSEPH	247			9.0	-3.0	3.0	-1.4	24.4	23	-16.7	14	0	22			36	-25		7						14.3	28	24+	6	12	13	6.3	
ST LOUIS	163	995.3	1016.0	9.2	-1.8	3.9	-2.4	26.1	21	-9.4	3	0	22	-1.1	75	104	27	37	12	5	160	152	0.8	29	17.9	SW	24	3	13	15	7.1	56
SPRINGFIELD	386	969.2	1015.5	10.2	-0.9	4.7	-2.0	26.7	21+	-9.4	14	0	21	-2.2	65	161	85	45	12	5	292	203	0.6	21	17.9	SE	26	8	9	14	6.5	54
MONTANA																																
BILLINGS	1087	886.9	1013.6	3.6	-5.6	-1.0	-1.3	13.9	18	-12.2	27+	0	29	-8.9	58	33	7	9	13	0	356	152	1.6	32	15.2	NE	25+	3	8	20	7.6	66
GLASGOW	696	930.9	1015.6	1.7	-9.9	-4.1	-0.3	15.6	16	-16.7	31+	0	31	-9.4	68	15	6	3	15	0	188	152	1.3	6	18.3	32	30	5	12	14	6.6	
GREAT FALLS	1116	884.2	1015.6	2.3	-7.4	-2.6	-1.7	11.7	16	-18.9	28	0	29	-7.8	72	34	9	14	15	0	315	152	2.7	25	17.0	SW	30	1	9	21	8.4	47
HAVRE	788	920.1	1014.7	2.4	-9.6	-3.6	-0.5	14.4	16	-22.2	12	0	29	-8.3	70	36	23	9	13	0	462	229	0.0	22	15.2	NW	30	6	7	18	7.0	51
HELENA	1167	876.7	1015.3	2.4	-6.0	-1.8	-1.0	9.4	16	-16.7	28	0	30	-8.3	64	22	5	6	15	0	312	127	1.9	29	17.0	NW	30	2	7	22	8.3	54
KALISPELL	904	907.9	1014.9	2.5	-6.9	-2.2	-1.4	8.3	1	-17.2	12	0	30	-7.8	64	34	12	8	13	0	272	178	0.8	4	12.5	3	25	4	2	25	7.9	
MILES CITY	801	918.7	1014.2	3.0	-7.8	-2.4	-1.4	14.4	18+	-18.3	29	0	30	-7.2	72	31	15		13	0	312		1.7	35								
MISSOULA	972	900.8	1014.6	5.4	-4.3	0.6	-0.2	11.1	15	-15.0	28	0	31	-4.4	73	19	1	9	14	0	180	102	0.5	34	15.2	NW	30	3	5	23	8.3	50
NEBRASKA																																
GRAND ISLAND	561	947.2	1015.0	4.3	-5.7	-0.7	-2.6	22.2	19	-13.9	13	0	27	-5.6	72	26	-4	13	10	2	79	51	0.4	30	17.9	22	27	11	4	16	6.3	
LINCOLN	359	971.6	1015.5	4.6	-6.1	-0.8	-3.3	21.1	20	-20.0	14	0	30	-4.4	76	34	-4	19	8	1	112	102	0.6	33	18.3	SW	27	8	9	14	6.4	52
NORFOLK	471			3.5	-6.7	-1.6	-2.0	21.1	19	-17.2	13	0	29			22	-13	14	8		99	102						9	6	16	6.5	
NORTH PLATTE	846	913.6	1013.9	6.6	-7.2	-0.3	-1.6	25.0	20	-17.8	12	0	30	-6.1	69	23	-2	10	11	2	99	51	0.4	1	21.5	NW	23	8	8	15	6.7	50
OMAHA	298	979.0	1015.5	5.3	-5.7	-0.2	-3.0	23.3	23	-18.3	14	0	27	-4.4	74	45	5	31	8	1	130	51	0.4	32	18.8	SE	27	7	9	15	6.4	53
SCOTTSBLUFF	1206	874.0	1012.3	7.6	-6.4	0.6	-0.7	21.7	19	-20.0	29	0	28	-6.7	64	44	25	30	10	0	450	254	1.4	33	24.1	33	23	3	13	15	7.5	
VALENTINE	789			4.5	-8.5	-2.0	-1.6	23.3	20	-19.4	12	0	29			26	7	13	7		409	178			21.0	NW	28+	6	8	17	6.9	52
NEVADA																																
ELKO	1539	840.2	1012.5	7.1	-2.9	2.1	0.4	16.1	18	-9.4	28	0	25	-4.4	65	60	39	26	13	0	160	76	1.3	26	12.5	25	22	1	7	23	8.3	
ELY	1906	803.3	1012.0	6.4	-6.7	-0.1	-0.6	15.6	1	-18.9	17	0	31	-5.6	70	40	19	8	14	0	417	102	1.0	21	21.5	S	7	3	5	23	8.2	52
LAS VEGAS	659	936.0	1012.5	18.3	5.9	12.2	-0.5	26.7	1	-0.6	28	0	1	-4.4	35	27	19	16	6	1	T	0	2.0	26	21.5	N	16	7	12	12	5.7	70
RENO	1342	862.2	1013.0	10.3	-3.2	3.6	-1.1	20.0	30	-10.6	28	0	27	-4.4	60	40	23	16	11	0	307	76	0.5	23	17.9	SW	1	3	8	20	7.5	73
WINNEMUCCA	1311	864.5	1012.7	11.2	-1.6	4.8	1.7	19.4	1	-9.4	28	0	22	-5.6	51	33	15	11	10	0	124	51	1.2	26	15.2	NW	7	3	9	19	7.5	40
NEW HAMPSHIRE																																
CONCORD	104	999.7	1012.7	4.7	-6.8	-1.1	-1.2	13.3	25	-18.9	10	0	28	-6.7	66	79	9	35	15	1	119	178	2.6	30	17.0	NW	26	8	5	18	7.0	52
MT WASHINGTON OBS	1909			-7.4	-17.4	-12.4	-1.2	2.2	25	-30.6	27	0	31			405	263	97	25	0	2192	660			60.4Y	W	31	5	3	23	8.0	31
NEW JERSEY																																
ATLANTIC CITY	20	1012.2	1014.5	9.8	-0.8	4.5	-0.6	18.9	25	-8.9	10	0	18	-1.1	71	98	-12	26	13	0	51	T	2.5	30	13.9	30	20	4	11	16	7.1	41
ATLANTIC CITY J	3			7.8	0.4	4.1	-1.1	15.0	25	-7.8	9	0	15			86	-10	29	12						19.7	NNE	14					
NEWARK	2	1013.2	1014.1	8.5	0.1	4.3	-0.5	17.2	25	-8.9	9	0	16	-4.4	58	75	-25	27	12	0	28	25	2.6	31	13.4	33	26+	6	9	16	6.9	
TRENTON J	17			8.8	-0.1	4.3	-0.8	17.8	22	-8.3	9	0	17			99	2	41	11		30	T			18.3	NW	20	6	8	17	6.8	51
NEW MEXICO																																
ALBUQUERQUE	1619	833.4	1010.5	14.9	-0.5	7.2	-0.4	22.8	25+	-8.3	30	0	18	-6.1	45	24	12	14	5	1	97	76	1.7	27	23.2	S	26	7	12	12	5.9	70
CLAYTON	1515			12.9	-3.2	4.9	0.2	26.1	20	-11.1	30+	0	26			4	-13	3	2		25	T						9	10	12	5.9	
ROSWELL	1112	885.5	1010.1	18.3	1.6	9.9	0.3	28.3	20	-5.0	30	0	12	-2.8	49	7	-5	4	4	1	36	25	1.9	25	18.8	SW	26	17	7	7	4.4	80
NEW YORK																																
ALBANY	84	1003.7	1014.7	4.5	-5.8	-0.7	-1.4	15.0	25	-15.6	9	0	28	-7.2	62	69	4	41	16	0	74	51	3.0	29	16.1	NW	8	5	9	17	7.2	45
BINGHAMTON	485	954.3	1014.8	1.3	-6.7	-2.7	-2.3	10.6	25	-15.6	9	0	30	-7.8	70	55	-18	18	16	0	231	76	1.7	29	16.1	SW	25	4	6	21	7.9	41
BUFFALO	215	988.8	1015.3	3.1	-4.5	-0.7	-0.7	13.3	18	-11.7	9	0	27	-5.0	76	74	2	24	16	0	193	76	1.8	28	19.2	SW	22	1	8	22	8.4	39
NEW YORK U	40	1010.5	1013.7	8.8	0.2	4.6	-0.5	17.8	25	-8.9	9	0	15	-3.9	59	84	-10	27	11	0	8	T	2.8	36	13.0	NNW	26					46
NEW YORK KENNEDY	4	1013.2	1014.0	8.1	0.6	4.4	0.3	15.0	23	-7.8	9	0	13	-4.4	57	89	-7	27	11	0	23	T	2.9	32	16.5	28	30	7	8	16	6.7	
NEW YORK LA GUARDIA	3	1012.9	1014.1	7.9	0.4	4.2	-0.6	16.7	25	-7.8	9	0	14	-4.4	56	71	-30	23	10	0	10	T	2.3	31	17.0	NW	20	5	10	16	7.0	
ROCHESTER	167	994.6	1015.4	3.4	-3.9	-0.2	-0.8	13.3	18	-12.2	9	0	28	-5.0	72	70	4	20	15	0	277	102	2.4	27	16.1	SW	22	1	7	23	8.1	42
SYRACUSE	125	999.7	1015.0	3.9	-4.3	-0.2	-0.8	12.8	18	-14.4	9	0	29	-4.4	74	68	-9	19	18	1	523	127	2.1	28	14.8	SW	31+	2	11	18	7.9	45
NORTH CAROLINA																																
ASHEVILLE	652	938.7	1015.8	13.3	0.9	7.1	-0.6	23.9	21	-8.9	3	0	15	1.7	73	250	132	74	15	5	94	76	1.3	34	15.6	35	19+	6	10	15	6.7	60

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure		Temperature								No. of days			Average relative humidity	Precipitation							Wind					No. of days (sunrise to sunset)			Sky cover, tenths (sunrise to sunset)	Possible sunshine
																			No. of days		Snow, Ice pellets				Fastest mile (1.6 kilometers)							
		Station ⊙	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min 0 °C or lower	Average dew point		Total	Departure from normal	Greatest in 24 hours	25 mm. or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10		
NORTH CAROLINA	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m s		m s							%
CAPE HATTERAS R	2	1015.6	1015.9	15.9	6.8	11.4	1.1	24.4	24	-3.9	10+	0	5	6.7	72	48	-50	13	14	5	T	0	1.3	30	14.3	17	19	9	4	18	6.8	49
CHARLOTTE	224	986.2	1015.9	15.9	4.6	10.2	-0.1	25.6	23+	-6.1	4	0	5	2.2	63	194	79	62	15	6	5	T	0.8	27	17.9	NW	24	6	10	15	6.7	59
GREENSBORO	273	983.7	1015.7	13.7	2.0	7.9	-0.9	23.9	23+	-7.2	3	0	10	1.7	71	223	128	70	14	6	51	25	1.4	27	14.3	SW	24	5	9	17	7.1	55
RALEIGH	132	999.7	1015.8	14.4	2.3	8.4	-1.2	25.6	24	-7.8	3	0	10	1.1	68	159	72	52	15	4	15	T	1.3	27	15.6	24	24	7	8	16	6.7	60
WILMINGTON	9	1015.2	1016.4	18.2	6.6	12.4	0.1	27.2	24	-3.3	4	0	5	5.0	64	80	-23	35	12	3	0	0	1.5	26	14.8	SW	14	6	11	14	6.6	63
NORTH DAKOTA																																
BISMARCK	502	953.9	1016.0	0.4	-10.9	-5.3	-1.4	15.0	18	-23.3	25	0	31	-10.6	66	81	62	28	11	0	790	686	1.4	1	18.8	E	23	4	10	17	7.2	64
FARGO	273	983.1	1017.2	-2.9	-12.2	-7.6	-3.2	11.1	19	-23.9	10	0	30	-10.0	80	38	17	26	12	0	475	254	0.8	6	15.6	N	24	7	8	16	7.1	48
WILLISTON	579	945.1	1016.3	0.5	-11.9	-5.6	-1.6	15.0	18	-22.2	25	0	30	-10.0	72	57	41	22	11	0	785	559	1.2	35	14.8	NW	28	4	11	16	7.0	54
OHIO																																
AKRON	368	969.9	1015.3	6.7	-2.3	2.2	-0.1	20.0	24	-11.1	9	0	23	-3.3	68	88	8	19	19	1	302	127	1.0	27	11.2	28	22+	3	3	25	8.3	
CINCINNATI ABBE OB	232			9.7	0.2	5.0	-1.1	24.4	21	-7.8	9	0	18			147	42	35	14						12.5	SW	24					34
CLEVELAND	237	985.8	1015.4	5.5	-2.6	1.4	-0.8	20.6	24	-13.9	9	0	24	-3.3	72	88	11	22	18	2	386	178	0.9	29	15.2	NW	22	3	2	26	8.7	34
COLUMBUS	247	985.1	1015.7	7.6	-1.8	2.9	-1.1	20.6	24+	-11.1	9	0	21	-2.8	67	104	17	28	15	3	66	51	1.0	26	16.5	SW	24	3	5	23	8.2	24
DAYTON	303	978.7	1015.4	7.9	-1.4	3.3	-0.6	22.2	21	-8.9	9	0	19	-2.8	68	85	3	23	14	2	282	102	0.9	27	18.8	SW	24	1	8	22	8.1	38
MANSFIELD	395			5.4	-3.3	1.1	-2.3	18.9	24	-13.3	9	0	23			68	-4	20	17	1	226	102	1.0	26	13.0	25	30+	3	4	24	8.4	
TOLEDO	204	989.8	1015.5	5.4	-3.9	0.7	-1.4	19.4	24	-13.9	9	0	26	-4.4	68	48	-16	16	14	1	135	76	1.0	31	15.6	W	24	2	8	21	7.9	44
YOUNGSTOWN	359	971.6	1015.2	4.9	-3.4	0.8	-1.1	18.3	24	-12.2	9	0	24	-3.9	72	82	-1	18	17	2	343	254	0.9	31	11.2	26	30+	2	5	24	8.5	
OKLAHOMA																																
OKLAHOMA CITY	392	967.5	1014.5	13.6	2.0	7.8	-1.2	26.7	21+	-7.8	14	0	10	0.0	65	44	-5	14	10	5	T	T	1.0	9	16.5	SE	26	9	7	15	6.3	51
TULSA	198	990.5	1015.3	12.8	1.9	7.4	-1.7	30.6	21	-10.6	14	0	11	0.0	65	138	74	61	13	5	46	25	0.2	12	16.1	S	20	6	9	16	6.6	44
OREGON																																
ASTORIA	2	1014.2	1014.9	10.5	2.4	6.6	-0.3	15.0	7+	-2.2	5	0	6	2.2	75	144	-24	29	19	0	T	0	0.7	22	12.5	17	2	5	8	18	7.9	
BURNS	1265			7.0	-4.9	1.1	-1.2	13.3	29	-13.9	26	0	30			43	20	17	11		330	152			21.5Y	SW	18	2	11	18	7.6	
EUGENE	109	1001.7	1015.4	11.4	2.7	7.1	-0.7	16.7	29	-2.2	28+	0	7	3.9	85	192	80	34	16	0	T	T	0.8	19	13.0	35	24	4	5	22	7.9	
MEDFORD	394	967.5	1015.7	11.4	1.0	6.3	-0.8	20.0	29	-3.9	28	0	11	0.6	70	101	59	38	14	0	T	T	0.6	28	13.0	13	7	3	6	22	8.2	
PENDLETON	452	960.0	1014.2	12.2	2.4	7.3	0.8	18.9	2	-5.0	27	0	4	-1.1	58	17	-9	5	9	0	T	0	1.8	25	18.3	25	20	2	10	19	7.4	
PORTLAND	6	1013.9	1015.0	11.3	3.1	7.2	-0.4	17.2	29	-2.8	27	0	5	0.6	68	88	-8	19	15	1	T	0	0.9	20	13.4	E	7	6	2	23	7.5	61
SALEM	60	1007.8	1015.1	11.2	1.6	6.4	-0.9	16.1	29	-5.0	28	0	12	2.2	77	107	-1	32	18	0	T	0	1.3	[illegible]	15.6	19	17	5	4	22	7.4	
SEXTON SUMMIT R	1169	879.8	1014.5	4.2	-1.9	1.1	-2.1	12.8	29+	-5.0	26+	0	23			186	99	44	21		864	457			17.0	[illegible]	2	4	4	23	8.7	
PACIFIC AREA																																
GUAM TAG AP R	110			29.6	20.6	25.1	-0.3	31.1	[illegible]	16.7	16	0	0			57	-18	15	12		0	0			8.9	E	4					[illegible]
JOHNSTON	2	1014.6	1015.0	26.4	22.4	24.4	-0.3	27.8	15	20.6	18+	0	0	19.4	74	44	-28	24	15	0	0	0	7.1	8	15.6	NE	27	12	12	7	5.0	73
KOROR R	29	1006.1		31.2	23.9	27.6	0.3	32.2	28+	22.8	25	5	0			170	-28	49	13	2	0	0	3.2	7	9.4	NE	19	0	7	24	8.6	[illegible]
KWAJALEIN	2	1009.1		31.1	25.8	28.5	0.9	31.7	30+	24.4	30	0	0			4	-154	2	8	0	0	0	6.7	6	9.8	6	6	0	12	11	6.3	
MAJURO	3	1008.5		29.3	24.8	27.1	-0.3	30.0	21+	23.3	25+	0	0			197	-38	79	15		0	0	6.5	7	15.2	E	13	1	12	18	7.5	57
PAGO PAGO	4	1010.5	1010.7	29.9	24.6	27.3	0.4	31.1	25+	22.2	12+	0	0	23.9	81	167	-140	27	25	6	0	0	3.8	9	16.1	[illegible]	31	0	9	22	8.3	[illegible]
PONAPE R	37			30.1	24.3	27.2	0.1	31.1	30+	22.2	20+	0	0			404	24	131	24	0	0	0			8.0	NE	16+	0	0	31	9.5	34
TRUK MOEN ISLAND	2	1009.5		30.1	25.1	27.6	0.2	31.1	30+	22.8	24+	0	0			284	81	97	18	0	0	0	4.5	5	8.9	SE	7+	0	1	30	9.7	46
WAKE	3	1014.6	1014.7	28.3	21.6	25.0	-0.4	30.0	13	20.0	31+	0	0	19.4	75	37	-4	8	17	0	0	0	4.4	8	13.4	E	27	10	17	4	4.8	74
YAP R	13	1007.8		30.8	23.4	27.1	-0.1	31.7	15+	21.7	25+	0	0			79	-67	48	13	0	0	0	3.9	6	8.9	NE	18+	1	14	16	7.1	[illegible]
PENNSYLVANIA																																
ALLENTOWN	118	1000.3	1014.9	7.9	-1.8	3.1	-0.3	16.7	25	-9.4	9	0	19	-4.4	62	89	-3	42	12	0	53	25	2.3	[illegible]	11.2	19	30+	4	12	15	7.1	
ERIE	223	986.2	1015.5	3.7	-3.7	0.1	-0.4	18.9	24	-9.4	9+	0	27	-5.0	73	91	21	20	15	1	254	178	1.3	27	14.8	27	22	1	7	23	8.4	
HARRISBURG	103	1002.7	1015.5	7.5	-0.5	3.5	-1.5	16.1	25+	-7.8	9	0	18	-3.9	63	96	14	[illegible]	9	0	155	76	2.0	31	13.9	NW	3	4	11	16	7.0	[illegible]
PHILADELPHIA	9	1013.8	1014.7	10.1	0.2	5.1	-0.4	21.1	22	-7.8	9	0	17	-2.8	60	119	25	58	10	0	58	T	2.2	31	15.6	NW	[illegible]	3	12	16	7.2	[illegible]
PITTSBURGH	347	[illegible]	1015.3	6.6	-1.8	2.4	-1.0	18.9	24	-11.1	9	0	22	-4.4	64	117	26	28	20	1	249	102	1.5	29	[illegible]	30	7	3	2	26	8.4	[illegible]
SCRANTON	283	[illegible]	1014.6	6.5	-2.3	2.1	-0.1	16.1	25	-10.6	9	0	23	-5.6	60	64	1	33	15	0	140	76	1.8	31	13.0	SE	19+	3	10	18	7.5	[illegible]
WILLIAMSPORT	160	[illegible]	1015.2	7.2	-1.6	2.9	-0.2	14.4	23+	-10.0	9	0	20	-3.9	63	78	-12	33	11	0	97	76	1.7	30	14.3	16	12	2	12	17	7.4	
RHODE ISLAND																																
BLOCK ISLAND	34			6.1	-0.9	2.6	-0.1	11.1	24	-8.9	9	0	15			[illegible]	3	23	12		198	51										
PROVIDENCE	14	1010.5	[illegible]	5.7	-2.8	[illegible]	-0.8	[illegible]	23+	-12.2	9	0	23	-5.0	61	78	[illegible]	27	16	0	56	25	2.2	32	13.9	14	[illegible]	5	5	18	[illegible]	47
SOUTH CAROLINA																																
CHARLESTON	12	1014.9	[illegible]	19.9	7.7	13.8	[illegible]	27.2	24+	-3.9	4	0	2	6.7	66	115	[illegible]	[illegible]	10	4	[illegible]	0	1.4	24	14.2Y	SW	7	7	8	16	6.5	57

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure		Temperature												Precipitation							Wind					No of days (sunrise to sunset)				
												No of days							No of days		Snow, Ice pellets				Fastest mile (1.6 kilometers)							
		Station	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min 0 C or lower	Average dew point	Average relative humidity	Total	Departure from normal	Greatest in 24 hours	25 mm or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
SOUTH CAROLINA																																
CHARLESTON J	3			17.9	9.3	13.7	-0.3	25.0	13	-1.7	3	0	1			87	-28	26	8		0	0			16.1	SE	18+					
COLUMBIA	65	1008.1	1016.2	18.8	5.6	12.2	-0.1	28.9	23	-7.8	4	0	7	5.0	67	137	19	25	13	5	0	0	1.0	28	13.0	31	24	6	9	16	6.5	52
GRNVLLE-SPRTNBRG	292	981.0	1015.9	15.2	3.1	9.2	-1.3	26.7	21	-7.2	9+	0	9	2.2	66	219	84	89	16	6	T	0	0.8	29	14.8	W	25	8	9	14	6.3	57
SOUTH DAKOTA																																
ABERDEEN	395	967.2	1015.7	1.8	-9.7	-3.9	-1.3	18.3	19	-21.7	30	0	30	-7.8	76	69	45	25	12	1	709	406	1.3	2	17.9	36	24	6	7	18	6.8	
HURON	390	966.8	1015.1	1.6	-9.6	-3.9	-2.3	18.3	19	-21.1	8	0	31	-8.3	71	69	42	30	9	1	861	432	0.5	4	17.9	NW	24+	7	9	15	6.6	57
RAPID CITY	964	900.8	1014.6	2.8	-7.8	-2.4	-2.0	18.3	20	-16.7	12	0	30	-6.7	74	62	37	22	12	0	696	279	2.5	35	24.1	NW	27	5	5	21	7.7	54
SIOUX FALLS	432	962.4	1015.7	1.6	-8.8	-3.6	-2.5	20.0	19	-25.6	13	0	29	-7.2	76	50	14	22	10	2	455	203	0.1	11	16.5	14	27	8	8	15	6.6	
TENNESSEE																																
BRISTOL	459	960.7	1015.5	12.7	1.4	7.1	-0.6	23.9	21	-8.3	4	0	12	2.2	75	234	135	73	15	3	86	51	1.4	26	16.5	25	25	6	4	21	7.5	
CHATTANOOGA	203	991.2	1016.3	13.4	1.7	7.6	-2.3	25.0	21	-8.3	4	0	12	0.6	65	265	127	86	15	8	T	T	0.9	28	18.8	SW	24	4	8	19	7.4	43
KNOXVILLE	299	980.7	1016.1	13.5	2.7	8.1	-1.8	25.6	21	-7.8	4	0	9	2.2	71	265	141	71	15	7	64	T	1.3	28	15.6	7	13	3	8	20	7.5	55
MEMPHIS	79	1005.8	1016.0	15.0	4.9	9.9	-0.6	26.7	23	-2.8	3	0	8	2.8	65	307	177	151	14	9	36	T	0.2	12	13.4	20	23	5	9	17	7.1	49
NASHVILLE	180	993.6	1015.7	14.1	2.9	8.5	-0.8	26.1	23	-6.1	4	0	12	2.2	68	314	187	118	16	9	T	T	1.0	25	14.8	NW	7	4	5	22	7.9	35
OAK RIDGE R	276			12.6	1.3	7.0	-1.7	24.4	21	-10.6	4	0	11			311	172	84	16		79	51			16.1		25	5	6	20	7.7	
TEXAS																																
ABILENE	544	949.5	1012.5	19.4	5.1	12.3	-0.2	30.6	20	-3.3	30	0	6	2.2	58	38	13	26	6	6	T	T	1.2	19	18.8	NW	18+	14	7	10	4.9	75
AMARILLO	1098	886.2	1010.4	15.3	-0.9	7.2	-0.3	27.8	20	-8.3	29+	0	16	-3.9	54	13	-7	7	6	3	30	25	1.9	22	17.4	18	26+	10	10	11	5.6	69
AUSTIN	182	991.2	1013.4	21.8	9.0	15.4	0.1	30.6	27+	0.6	14+	0	0	8.3	68	20	-28	10	5	1	0	0	0.7	8	14.3	NW	13	9	8	14	6.0	59
BROWNSVILLE	6	1011.5	1012.0	27.0	16.3	21.7	1.8	32.8	28	7.2	30	3	0	16.1	74	T	-17	T	1	0	0	0	3.8	15	18.8	S	9	7	7	17	6.6	58
CORPUS CHRISTI	12	1010.8	1012.3	25.7	13.4	19.6	1.3	35.6	28	3.3	14	4	0	15.0	77	1	-27	1	3	1	0	0	3.4	12	17.9	SE	9	8	6	17	6.6	53
DALLAS - FORT WORTH	168	992.9	1014.1	17.8	6.4	12.1	-0.7	27.8	23	-2.2	14	0	1	5.0	65	42	-22	19	10	5	T	0	0.4	10	17.0	14	26	5	10	16	6.5	
DEL RIO	313	975.6	1011.7	25.2	10.1	17.7	0.7	35.0	27	1.7	30	2	0	6.7	55	2	-17	1	3	0	0	0	1.7	9	13.0	34	12	12	9	10	4.8	
EL PASO	1194	878.8	1010.0	21.2	4.4	12.8	0.3	30.0	25	-1.1	29	0	3	-4.4	34	9	-5	3	2	0	51	51	3.2	26	19.2	27	9	17	7	7	4.2	90
GALVESTON	2			19.7	14.2	17.0	0.9	23.9	28+	5.0	30+	0	0			24	-42	17	6		0	0			17.4	SE	9					48
HOUSTON INTERCON	29	1010.5	1014.2	22.3	10.0	16.2	0.2	31.1	7	-1.1	14	0	1	11.7	76	81	13	31	11	5	0	0	1.2	11	13.4	13	9	8	3	20	7.1	37
LUBBOCK	992	899.8	1011.2	18.5	0.9	9.7	0.3	28.9	20	-7.8	30	0	12	-3.9	47	1	-22	1	2	1	18	T	1.5	24	19.2	27	27+	13	9	9	4.9	72
MIDLAND	869	912.6	1010.9	20.7	4.7	12.7	0.3	30.0	20	-2.2	30	0	4	-0.6	45	2	-13	2	1	0	T	0	1.2	24	18.3	27	17	17	4	10	3.9	
PORT ARTHUR	5	1013.9		21.6	10.5	16.1	0.4	29.4	7	0.0	14	0	1	11.7	80	44	-33	20	10	4	0	0	2.0	12	14.8	SE	27	7	1	23	7.2	45
SAN ANGELO	580	946.2	1012.7	20.9	5.8	13.4	-0.6	28.9	21+	-3.3	30	0	4	2.8	53	2	-20	2	1	2	0	0	1.0	21	16.5	30	17	14	7	10	4.5	
SAN ANTONIO	240	984.8	1012.7	23.3	9.3	16.3	0.3	32.2	27	-0.6	5	1	1	8.9	66	13	-26	5	5	1	0	0	1.6	8	18.8	NW	23	10	7	14	5.9	57
VICTORIA	32	1009.1	1013.2	24.8	12.4	18.7	1.8	32.2	7	1.7	14	1	0	11.7	69	9	-39	7	5	2	0	0	1.7	11	21.0Y	S	9	7	4	20	6.9	
WACO	153	995.6	1014.0	19.0	5.9	12.5	-1.5	30.6	23	-3.3	14	0	4	5.6	70	28	-32	15	9	4	0	0	0.2	15	14.3	34	29+	7	8	16	6.7	
WICHITA FALLS	303	977.0	1013.8	17.3	4.0	10.7	-0.7	31.1	20	-5.0	14	0	5	2.2	63	40	-1	17	11	7	5	T	0.6	10	13.9	27	23+	10	10	11	5.8	
UTAH																																
MILFORD	1533	841.5		9.3	-4.5	2.4	-0.9	20.0	1	-15.6	29	0	28			36	9	7	11		414	102			19.7	SW	25	7	5	19	7.0	56
SALT LAKE CITY	1286	867.3	1012.0	9.7	0.4	5.1	0.8	20.0	19	-8.3	29	0	15	-2.2	63	87	46	21	17	3	579	127	1.3	19	16.1	SE	21	2	5	24	8.5	61
WENDOVER	1291	866.6	1012.6	9.4	-0.7	4.4	-0.7	18.9	19	-8.9	29+	0	16			17	7	6	8		T	T	0.8	31				1	5	25	8.7	
VERMONT																																
BURLINGTON	101	1001.4	1014.2	2.6	-7.0	-2.2	-0.6	12.2	25	-16.7	9	0	30	-6.7	71	73	24	27	15	0	315	127	1.1	29	15.2	S	19+	6	6	19	7.4	47
VIRGINIA																																
LYNCHBURG	279	981.0		10.8	0.6	5.7	-1.8	22.2	13	-6.7	9+	0	14			235	147	63	15		97	102			13.0	W	30	8	7	16	6.7	45
NORFOLK	7	1014.2	1015.2	13.5	3.6	8.6	-0.4	27.2	24	-3.9	9	0	8	1.1	64	145	58	36	13	3	20	T	1.6	32	19.2	32	24	9	7	15	6.1	
RICHMOND	50	1008.8	1015.4	13.4	1.3	7.4	-0.9	23.9	24	-7.2	9	0	13	-0.6	63	204	118	50	15	3	10	T	1.1	30	14.3	W	24	8	8	15	6.4	52
ROANOKE	350	972.9	1015.5	10.7	0.6	5.7	-1.7	22.8	21	-9.4	9	0	13	-2.2	61	198	116	70	15	0	157	102	2.0	30	16.5	29	30	5	10	16	7.3	
WALLOPS ISLAND	3			10.8	2.5	6.7	0.1	21.7	25	-5.0	9	0	10			164	57	36	15		25	T			22.8Y	WNW	20					
WASHINGTON																																
OLYMPIA	59	1006.8	1014.1	10.2	-0.8	4.7	-1.5	16.7	29	-6.7	27	0	17	-0.6	73	110	-12	29	17	0	8	T	1.5	20	11.6	25	30	3	9	19	7.4	
QUILLAYUTE	55	1006.1	1013.6	9.4	0.5	5.0	-0.6	12.2	28+	-4.4	11+	0	14	1.1	78	244	-30	44	20	0	T	0	0.3	18	10.7	NW	30	3	6	22	7.8	31
SEATTLE U	6			10.4	3.2	6.8	-0.7	15.0	29+	-1.1	27	0	3			122	40	43	17		T	0			14.8	NNW	25					
SEATTLE-TACOMA	122	998.0	1014.6	9.9	2.2	6.1	-0.7	16.1	7	-3.3	27	0	7	-0.6	66	73	-19	26	14	0	T	T	0.8	16	12.5	S	30	4	8	19	7.5	73
SPOKANE	718	927.9	1013.1	5.0	-2.8	1.1	-1.9	9.4	2+	-8.3	28	0	28	-4.4	69	46	8	13	12	0	193	102	1.6	20	14.3	SW	30+	2	11	18	7.4	46
STAMPEDE PASS R	1208	873.7		-0.1	-4.4	-2.2	-1.1	5.0	29	-7.8	27+	0	30			158	-68	24	23		1074	3734						4	5	22	8.0	
WALLA WALLA U	289			10.5	2.1	6.3	-1.3	18.3	2	-5.0	28	0	9			22	-12	9	12		T	0			14.8	SW	30	4	8	19	7.5	39
YAKIMA	321	975.3	1014.3	11.9	-2.1	4.9	-0.5	17.8	29	-7.2	28+	0	24	-3.3	60	12	-2	5	6	0	58	25	1.7	29	14.3	29	30	7	10	14	6.3	

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station		Pressure		Temperature											Average relative humidity	Precipitation							Wind						No of days (sunrise to sunset)			Sky cover, tenths (sunrise to sunset)	Possible sunshine
												No of days							No of days		Snow, Ice pellets				Fastest mile (1.6 kilometers)							
	Elevation ground	Station	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min 0 C or lower	Average dew point		Total	Departure from normal	Greatest in 24 hours	25 mm or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0 3	Partly cloudy, 4 7	Cloudy, 8 10		
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m s		m s							%
WEST INDIES																																
SAN JUAN P.R.	4	1014.9	1017.2	29.2	22.3	25.8	1.2	31.1	1	20.0	1	0	0	18.3	65	29	-23	16	13	0	0	0	3.7	10	15.2	E	11	7	19	5	5.0	74
WEST VIRGINIA																																
BECKLEY	762	921.5	1015.8	7.8	-1.7	2.9	-1.6	21.1	21	-14.4	9	0	17	-1.7	76	233	120	40	19	4	439	152	1.7	23	17.0	13	14	1	8	22	8.4	
CHARLESTON	284	980.7	1015.6	9.7	-1.0	4.3	-2.6	23.9	21	-11.7	9	0	20	-1.7	70	153	50	28	17	5	206	51	1.1	26	10.7	26	30	2	6	23	8.4	
ELKINS	594	943.1		7.9	-3.8	2.1	-1.7	18.9	29	-17.6	5	0	24			119	18	18	20		282	127						2	4	25	8.8	
HUNTINGTON	252	984.8	1015.4	10.8	0.7	5.6	-1.1	25.6	21	-7.2	9	0	12	-0.6	69	161	57	41	18	6	160	102	0.9	29	13.9	30	7	1	7	23	8.5	
PARKERSBURG	187			9.5	-0.1	4.7	-1.2	22.8	21	-8.3	9	0	17			118	27	29	15		64	51			13.4	W	30					32
WISCONSIN																																
GREEN BAY	209	984.2	1015.8	0.3	-9.1	-4.4	-2.5	7.8	18	-21.1	9	0	28	-7.8	75	87	45	29	13	0	340	330	0.6	31	15.2	E	27	4	10	17	7.2	41
LA CROSSE	199	991.9	1017.5	0.6	-9.2	-4.2	-3.7	9.4	20+	-23.3	14	0	29	-7.6	77	54	3		12	2	460		0.2	25								
MADISON	262	984.4	1015.1	2.2	-8.8	-3.3	-2.3	10.6	31	-22.2	9	0	26	-6.7	75	78	29	24	14	3	254	279	0.5	32	16.1	E	27	5	9	17	7.1	55
MILWAUKEE	205	989.8	1016.1	1.7	-5.5	-1.9	-1.6	10.0	18	-17.3	9	0	26	-5.6	74	76	20	21	15	3	384	178	1.1	31	19.2	SE	27	6	8	17	7.2	52
WYOMING																																
CASPER	1627	831.7	1011.5	4.6	-6.9	-1.0	-0.4	16.1	19	-18.9	12	0	29	-7.2	69	51	28	14	12	1	919	203	2.3	25	15.6	24	19	3	8	20	7.6	
CHEYENNE	1867	804.9	1011.5	5.3	-7.3	-1.0	-0.8	16.7	20+	-20.6	28	0	28	-10.0	56	30	3	19	9	0	356	203	3.9	30	24.6	N	27	3	12	16	7.4	69
LANDER	1694	822.2	1011.9	6.2	-6.3	-0.1	0.3	15.6	19	-19.4	29	0	29	-8.3	58	30		9	10	0	582	127	0.4	24	13.9	SW	18	1	13	17	7.3	65
SHERIDAN	1208	873.7	1013.4	3.8	-7.4	-1.6	-1.3	13.9	30+	-17.8	12	0	30	-7.2	68	30	-1	6	15	0	447	102	2.2	32	16.8	NW	26+	1	13	17	7.5	47

HEATING DEGREE DAYS

(Base 65°F.)

MARCH 1975

State and station	Current season		Normals
	This month	Period July through this month	July through this month
ALABAMA			
BIRMINGHAM	361	2364	2708
HUNTSVILLE	520	2918	3125
MOBILE	183	1253	1644
MONTGOMERY	269	1844	2185
ALASKA			
ANCHORAGE	1313	8985	9125
ANNETTE	920	5854	5585
BARROW	2246	16581	15909
BARTER ISLAND	2261	17270	15759
BETHEL	1695	11542	10814
BETTLES	1829	13863	13598
BIG DELTA	1605	12101	11793
COLD BAY	1176	7693	7529
FAIRBANKS	1620	12364	12502
GULKANA	1693	11711	11904
HOMER	1199	8220	8271
JUNEAU	1063	7087	7306
KING SALMON	1560	10174	9454
KODIAK	1148	7475	6882
KOTZEBUE	1855	13092	12774
MC GRATH	1798	12880	12399
NOME	1799	12159	11421
ST. PAUL ISLAND	1399	9263	8368
SUMMIT	1718	11751	11787
TALKEETNA	1487	10055	9801
UNALAKLEET	1634	7415	11402
YAKUTAT	1183	7389	7534
ARIZONA			
FLAGSTAFF	978	5958	5954
PHOENIX	191	1452	1492
TUCSON	299	1980	1671
WINSLOW	662	4687	4247
YUMA	135	1066	981
ARKANSAS			
FORT SMITH	562	3372	3187
LITTLE ROCK	499	2864	3194
CALIFORNIA			
BAKERSFIELD	244	1925	2023
BISHOP	639	3795	3793
BLUE CANYON	952	4301	4449
EUREKA U	532	3572	3538
FRESNO	409	2526	2408
LONG BEACH	246	1125	1364
LOS ANGELES	278	1199	1439
LOS ANGELES U	283	1146	1036
MT SHASTA R	862	4850	4780
OAKLAND	347	2035	2332
RED BLUFF	454	2690	2398
SACRAMENTO	449	2512	2476
SANDBERG R	791	3707	3549
SAN DIEGO	225	1111	1232
SAN FRANCISCO	415	2525	2421
SAN FRANCISCO U	360	2365	2338
SANTA MARIA	446	2390	2338
STOCKTON	419	2668	2510
COLORADO			
ALAMOSA	1023	7836	7284
COLORADO SPRINGS	904	5541	5509
DENVER	852	5268	5158
GRAND JUNCTION	736	5260	5048
PUEBLO	756	4825	4813
CONNECTICUT			
BRIDGEPORT	866	4522	4714
HARTFORD	894	5368	5581
DELAWARE			
WILMINGTON	753	4193	4431
DIST.OF COLUMBIA			
WASHINGTON DULLES	759	4434	4517
WASHINGTON NATIONAL	608	3421	3874
FLORIDA			
APPALACHICOLA U	145	971	1331
DAYTONA BEACH	91	538	880
FORT MYERS	15	146	457
JACKSONVILLE	193	1109	1303
KEY WEST	0	7	64
LAKELAND U	52	364	669
MIAMI	10	59	206
ORLANDO	57	377	720
PENSACOLA	162	1066	1541
TALLAHASSEE	201	1463	1529
TAMPA	61	386	709
WEST PALM BEACH	15	107	299
GEORGIA			
ATHENS	418	2536	2824
ATLANTA	451	2679	2924
AUGUSTA	374	2472	2447
COLUMBUS	301	1978	2283
MACON	306	1945	2168
ROME	457	3573	3158
SAVANNAH	212	1451	1869
IDAHO			
BOISE	721	4772	5004
LEWISTON	734	4432	4707
POCATELLO	908	6042	5998
ILLINOIS			
CAIRO U	628	3609	3619
CHICAGO O HARE	951	5546	5726
CHICAGO MIDWAY	947	5425	5440
MOLINE	1058	5805	5755
PEORIA	959	5549	5485
ROCKFORD	1107	6113	6073
SPRINGFIELD	848	4996	5051
INDIANA			
EVANSVILLE	689	4104	4266
FORT WAYNE	981	5495	5499
INDIANAPOLIS	866	5007	5020
SOUTH BEND	944	5238	5675
IOWA			
BURLINGTON	1002	5672	5545
DES MOINES	1090	5956	6033
DUBUQUE	1247	6654	6456
SIOUX CITY	1107	6388	6257
WATERLOO	1238	6729	6619
KANSAS			
CONCORDIA	930	5163	5070
DODGE CITY	752	4593	4566
GOODLAND	929	5456	5359
TOPEKA	839	4893	4783
WICHITA	757	4511	4315
KENTUCKY			
COVINGTON	778	4579	4582
LEXINGTON	726	4160	4313
LOUISVILLE	665	3956	4249
LOUISIANA			
ALEXANDRIA	242	1766	2129
BATON ROUGE	202	1384	1637
LAKE CHARLES	179	1273	1472
NEW ORLEANS	183	1222	1436
SHREVEPORT	305	2134	2097
MAINE			
CARIBOU	1295	8205	8139
PORTLAND	1086	6070	6342
MARYLAND			
BALTIMORE	702	3860	4279
MASSACHUSETTS			
BLUE HILL OBS R	950	5356	5449
BOSTON	866	4694	4884
WORCHESTER	1037	5925	5901
MICHIGAN			
ALPENA	1234	6828	7166
DETROIT	956	5164	5457
DETROIT METRO	996	5703	5620
FLINT	1059	5838	6097
GRAND RAPIDS	1113	6273	5932
HOUGHTON LAKE	1254	6921	7145
LANSING	1057	5996	6021
MARQUETTE U	1188	6696	6969
MUSKEGON	1050	5828	5919
SAULT STE MARIE	1358	7689	7693
MINNESOTA			
DULUTH	1447	8508	8286
INTERNATIONAL FALLS	1542	8882	9113
MINNEAPOLIS	1324	7253	7226
ROCHESTER	1359	7395	7242
ST CLOUD	1425	8013	7796
MISSISSIPPI			
JACKSON	293	1928	2220
MERIDIAN	317	2003	2302
MISSOURI			
COLUMBIA REGIONAL	850	4984	4636
KANSAS CITY	878	5041	4724
ST JOSEPH	848	5116	4979
ST LOUIS	803	4649	4365
SPRINGFIELD	757	4340	4191
MONTANA			
BILLINGS	1071	6354	6189
GLASGOW	1244	7173	7808
GREAT FALLS	1159	6541	6475
HAVRE	1216	7055	7579
HELENA	1114	7024	6926
KALISPELL	1140	7039	7178
MILES CITY	1151	6638	6893
MISSOULA	985	6413	6700
NEBRASKA			
GRAND ISLAND	1052	6104	5740
LINCOLN	1059	6039	5611
NORFORK	1107	6324	6241
NORTH PLATTE	1032	6239	5918
OMAHA	1024	5871	5490
SCOTTSBLUFF	981	5945	5839
VALENTINE	1126	6377	6378
NEVADA			
ELKO	899	6107	6242
ELY	1023	6333	6392
LAS VEGAS	340	2382	2465
RENO	818	5153	5003
WINNEMUCCA	749	5429	5524
NEW HAMPSHIRE			
CONCORD	1075	6646	6363
MT WASHINGTON OBS	1713	11141	11051
NEW JERSEY			
ATLANTIC CITY	763	4228	4407
ATLANTIC CITY U	786	4162	4063
NEWARK	775	4197	4492
TRENTON U	775	4172	4428
NEW MEXICO			
ALBUQUERQUE	614	4308	3952
CLAYTON	742	4758	4566
ROSWELL	462	3417	3492
NEW YORK			
ALBANY	1053	6168	6053
BINGHAMTON	1164	6382	6281
BUFFALO	1053	5565	5945
NEW YORK U	764	4112	4324
NEW YORK KENNEDY	770	4064	4534
NEW YORK LA GUARDIA	778	4154	4365
ROCHESTER	1031	5679	5821
SYRACUSE	1026	5733	5805
NORTH CAROLINA			
ASHEVILLE	619	3618	3844
CAPE HATTERAS R	383	2095	2496
CHARLOTTE	444	3026	3039
GREENSBORO	578	3318	3563
RALEIGH	553	3274	3286
WILMINGTON	338	2089	2329
NORTH DAKOTA			
BISMARCK	1309	7996	7923
FARGO	1438	8007	8159
WILLISTON	1329	7788	8003
OHIO			
AKRON	895	5123	5465
CINCINNATI ABBE OB	736	4175	4412
CLEVELAND	934	5209	5369
COLUMBUS	850	4794	5095
DAYTON U	835	4829	5049
MANSFIELD	956	5380	5143
TOLEDO	974	5607	5622
YOUNGSTOWN	972	5506	5607
OKLAHOMA			
OKLAHOMA CITY	583	3529	3479
TULSA	610	3581	3476
OREGON			
ASTORIA	653	3834	4130
BURNS U	960	5884	5981
EUGENE	623	3247	3876
MEDFORD	663	3960	4142
PENDLETON	689	3897	4527
PORTLAND	615	3515	3968
SALEM	656	3696	3968
SEXTON SUMMIT R	952	5147	4991
PENNSYLVANIA			
ALLENTOWN	841	4938	5163
ERIE	1013	5625	5829
HARRISBURG	818	4717	4726
PHILADELPHIA	732	4041	4376
PITTSBURGH	881	4933	5252
PITTSBURGH U	830	4693	4725
SCRANTON	902	5100	5535
WILLIAMSPORT	852	5080	5307
RHODE ISLAND			
BLOCK ISLAND	870	4470	4751
PROVIDENCE	907	4979	5146
SOUTH CAROLINA			
CHARLESTON	273	1789	2072
CHARLESTON U	269	1621	1852
COLUMBIA	344	2170	2503
GRNVLLE-SPRTNBRG	507	2973	2990
SOUTH DAKOTA			
ABERDEEN	1234	7129	7597
HURON	1239	7017	7134
RAPID CITY	1151	6396	6259
SIOUX FALLS	1217	6950	6947
TENNESSEE			
BRISTOL	621	3702	3938
CHATTANOOGA	593	3401	3289
KNOXVILLE	563	3161	3258
MEMPHIS	463	2698	3074
NASHVILLE	547	3172	3475
OAK RIDGE	629	3715	3647
TEXAS			
ABILENE	351	2682	2495
AMARILLO	612	4070	3817
AUSTIN	204	1665	1693
BROWNSVILLE	31	547	650
CORPUS CHRISTI	77	852	930
DALLAS FT WORTH	355	2230	2294
DEL RIO	114	1432	1507
EL PASO	309	2747	2589
GALVESTON	120	906	1204
HOUSTON INTERCON	179	1286	1411
LUBBOCK	474	3406	3326
MIDLAND	314	2411	2523
PORT ARTHUR	180	1387	1485
SAN ANGELO	288	2264	2166
SAN ANTONIO	152	1571	1539
VICTORIA	92	990	1212
WACO	343	2224	2002
WICHITA FALLS	430	2863	2779
UTAH			
MILFORD	880	5721	5522
SALT LAKE CITY	734	4748	5184
WENDOVER	773	5149	5125
VERMONT			
BURLINGTON	1141	6536	6822
VIRGINIA			
LYNCHBURG	696	3919	3888
NORFORK	541	2856	3209
RICHMOND	604	3604	3649
ROANOKE	699	3897	3923
WALLOPS ISLAND	641	3639	3793
WASHINGTON			
OLYMPIA	751	4380	4488
QUILLAYUTE	738	4458	4647
SEATTLE	638	3595	3887
SEATTLE-TACOMA	678	4014	4216
SPOKANE	953	5981	5797
STAMPEDE PASS R	1141	6955	7362
WALLA WALLA U	664	4007	4241
YAKIMA	741	4908	5211
WEST VIRGINIA			
BECKLEY	849	4841	4944
CHARLESTON	772	4377	4180
ELKINS	901	5459	5217
HUNTINGTON	696	4073	4205
PARKERSBURG U	745	4295	4369
WISCONSIN			
GREEN BAY	1260	7062	7033
LA CROSSE	1248	6720	6632
MADISON	1198	6489	6770
MILWAUKEE	1122	6146	6397
WYOMING			
CASPER	1066	6700	6351
CHEYENNE	1070	6323	6036
LANDER	1019	6734	6674
SHERIDAN	1117	6818	6523

COOLING DEGREE DAYS

(Base 65°F.)

MARCH 1975

State and station	Current season		
	This month	Period January through this month	Normals January through this month
ALABAMA			
BIRMINGHAM	26	34	48
HUNTSVILLE	3	3	29
MOBILE	57	122	99
MONTGOMERY	32	44	65
ALASKA			
ANCHORAGE	0	0	0
ANNETTE	0	0	0
BARROW	0	0	0
BARTER ISLAND	0	0	0
BETHEL	0	0	0
BETTLES	0	0	0
BIG DELTA	0	0	0
COLD BAY	0	0	0
FAIRBANKS	0	0	0
GULKANA	0	0	0
HOMER	0	0	0
JUNEAU	0	0	0
KING SALMON	0	0	0
KODIAK	0	0	0
KOTZEBUE	0	0	0
MC GRATH	0	0	0
NOME	0	0	0
ST. PAUL ISLAND	0	0	0
SUMMIT	0	0	0
TALKEETNA	0	0	0
UNALAKLEET	0	0	0
YAKUTAT	0	0	0
ARIZONA			
FLAGSTAFF	0	0	0
PHOENIX	12	12	38
TUCSON	4	4	24
WINSLOW	0	0	0
YUMA	32	35	109
ARKANSAS			
FORT SMITH	3	3	15
LITTLE ROCK	4	10	14
CALIFORNIA			
BAKERSFIELD	7	7	6
BISHOP	0	0	0
BLUE CANYON	0	0	0
EUREKA U	0	0	0
FRESNO	0	0	0
LONG BEACH	0	6	17
LOS ANGELES	0	13	12
LOS ANGELES U	0	21	34
MT SHASTA R	0	0	0
OAKLAND	0	0	0
RED BLUFF	0	0	0
SACRAMENTO	0	0	0
SANDBERG R	0	0	0
SAN DIEGO	0	0	15
SAN FRANCISCO	0	0	0
SAN FRANCISCO U	0	0	0
SANTA MARIA	0	0	0
STOCKTON	0	0	0
COLORADO			
ALAMOSA	0	0	0
COLORADO SPRINGS	0	0	0
DENVER	0	0	0
GRAND JUNCTION	0	0	0
PUEBLO	0	0	0
CONNECTICUT			
BRIDGEPORT	0	0	0
HARTFORD	0	0	0
DELAWARE			
WILMINGTON	0	0	0
DIST.OF COLUMBIA			
WASHINGTON DULLES	0	0	0
WASHINGTON NATIONAL	0	1	0
FLORIDA			
APPALACHICOLA U	35	59	92
DAYTONA BEACH	118	284	182
FORT MYERS	215	573	353
JACKSONVILLE	59	132	121
KEY WEST	361	966	706
LAKELAND U	162	408	270
MIAMI	276	770	478
ORLANDO	141	367	260
PENSACOLA	64	137	117
TALLAHASSEE	53	82	102
TAMPA	151	359	268
WEST PALM BEACH	230	654	394
GEORGIA			
ATHENS	3	9	14
ATLANTA	6	6	12
AUGUSTA	11	16	37
COLUMBUS	28	34	47
MACON	25	33	59
ROME	0	0	13
SAVANNAH	48	101	72
HAWAII			
HILO	197	590	553
HONOLULU	256	715	678
KAHULUI	227	643	618
LIHUE	240	682	583
IDAHO			
BOISE	0	0	0
LEWISTON	0	0	0
POCATELLO	0	0	0
ILLINOIS			
CAIRO U	0	0	16
CHICAGO O HARE	0	0	0
CHICAGO MIDWAY	0	0	0
MOLINE	0	0	0
PEORIA	0	0	0
ROCKFORD	0	0	0
SPRINGFIELD	0	0	0
INDIANA			
EVANSVILLE	0	0	11
FORT WAYNE	0	0	0
INDIANAPOLIS	0	0	0
SOUTH BEND	0	0	0
IOWA			
BURLINGTON	0	0	0
DES MOINES	0	0	0
DUBUQUE	0	0	0
SIOUX CITY	0	0	0
WATERLOO	0	0	0
KANSAS			
CONCORDIA	0	0	0
DODGE CITY	0	0	0
GOODLAND	0	0	0
TOPEKA	0	0	8
WICHITA	0	0	8
KENTUCKY			
COVINGTON	0	0	0
LEXINGTON	0	0	10
LOUISVILLE	0	0	10
LOUISIANA			
ALEXANDRIA	57	100	51
BATON ROUGE	68	134	85
LAKE CHARLES	63	117	104
NEW ORLEANS	80	159	118
SHREVEPORT	21	44	47
MAINE			
CARIBOU	0	0	0
PORTLAND	0	0	0
MARYLAND			
BALTIMORE	0	0	0
MASSACHUSETTS			
BLUE HILL OBS R	0	0	0
BOSTON	0	0	0
WORCHESTER	0	0	0
MICHIGAN			
ALPENA	0	0	0
DETROIT	0	0	0
DETROIT METRO	0	0	0
FLINT	0	0	0
GRAND RAPIDS	0	0	0
HOUGHTON LAKE	0	0	0
LANSING	0	0	0
MARQUETTE U	0	0	0
MUSKEGON	0	0	0
SAULT STE MARIE	0	0	0
MINNESOTA			
DULUTH	0	0	0
INTERNATIONAL FALLS	0	0	0
MINNEAPOLIS	0	0	0
ROCHESTER	0	0	0
ST CLOUD	0	0	0
MISSISSIPPI			
JACKSON	46	89	68
MERIDIAN	73	28	68
MISSOURI			
COLUMBIA REGIONAL	0	0	8
KANSAS CITY	0	0	7
ST JOSEPH	0	0	0
ST LOUIS	2	2	9
SPRINGFIELD	1	1	9
MONTANA			
BILLINGS	0	0	0
GLASCOW	0	0	0
GREAT FALLS	0	0	0
HAVRE	0	0	0
HELENA	0	0	0
KALISPELL	0	0	0
MILES CITY	0	0	0
MISSOULA	0	0	0
NEBRASKA			
GRAND ISLAND	0	0	0
LINCOLN	0	0	0
NORFORK	0	0	0
NORTH PLATTE	0	0	0
OMAHA	0	0	0
SCOTTSBLUFF	0	0	0
VALENTINE	0	0	0
NEVADA			
ELKO	0	0	0
ELY	0	0	0
LAS VEGAS	2	2	14
RENO	0	0	0
WINNEMUCCA	0	0	0
NEW HAMPSHIRE			
CONCORD	0	0	0
MT WASHINGTON OBS	0	0	0
NEW JERSEY			
ATLANTIC CITY	0	0	0
ATLANTIC CITY U	0	0	0
NEWARK	0	0	0
TRENTON U	0	0	0
NEW MEXICO			
ALBUQUERQUE	0	0	0
CLAYTON	0	0	0
ROSWELL	0	0	0
NEW YORK			
ALBANY	0	0	0
BINGHAMTON	0	0	0
BUFFALO	0	0	0
NEW YORK U	0	0	0
NEW YORK KENNEDY	0	0	0
NEW YORK LA GUARDIA	0	0	0
ROCHESTER	0	0	0
SYRACUSE	0	0	0
NORTH CAROLINA			
ASHEVILLE	0	0	0
CAPE HATTERAS F	3	11	12
CHARLOTTE	0	0	15
GREENSBORO	1	1	11
RALEIGH	3	3	12
WILMINGTON	17	23	36
NORTH DAKOTA			
BISMARCK	0	0	0
FARGO	0	0	0
WILLISTON	0	0	0
OHIO			
AKRON	0	0	0
CINCINNATI ABBE OB	0	0	7
CLEVELAND	0	0	0
COLUMBUS	0	0	0
DAYTON U	0	0	0
MANSFIELD	0	0	0
TOLEDO	0	0	0
YOUNGSTOWN	0	0	0
OKLAHOMA			
OKLAHOMA CITY	1	1	11
TULSA	9	[illegible]	10
OREGON			
ASTORIA	0	0	0
BURNS U	0	0	0
EUGENE	0	0	0
MEDFORD	0	0	0
PENDLETON	0	0	0
PORTLAND	0	0	0
SALEM	0	0	0
SEXTON SUMMIT R	0	0	0
PACIFIC AREA			
GUAM TAGUAC R	383	1149	1119
JOHNSTON	347	1027	1048
KOROR R	524	1489	1441
KWAJALEIN	572	1593	1479
MAJURO	494	1493	1446
PAGO PAGO	506	1436	1385
PONAPE R	501	1517	1414
TRUK MOEN ISLAND	524	1521	1452
WAKE	378	1035	1102
YAP R	498	1423	1407
PENNSYLVANIA			
ALLENTOWN	0	0	0
ERIE	0	0	0
HARRISBURG	0	0	0
PHILADELPHIA	0	0	0
PITTSBURGH	0	0	0
SCRANTON	0	0	0
WILLIAMSPORT	0	0	0
RHODE ISLAND			
BLOCK ISLAND	0	0	0
PROVIDENCE	0	0	0
SOUTH CAROLINA			
CHARLESTON	26	47	61
CHARLESTON U	15	24	68
COLUMBIA	11	25	40
GRNVLLE-SPRTNBRG	0	0	13
SOUTH DAKOTA			
ABERDEEN	0	0	0
HURON	0	0	0
RAPID CITY	0	0	0
SIOUX FALLS	0	0	0
TENNESSEE			
BRISTOL	0	0	9
CHATTANOOGA	0	0	18
KNOXVILLE	0	0	24
MEMPHIS	3	11	23
NASHVILLE	3	6	19
OAK RIDGE	0	0	12
TEXAS			
ABILENE	20	20	29
AMARILLO	0	0	0
AUSTIN	47	68	76
BROWNSVILLE	223	370	358
CORPUS CHRISTI	154	259	199
DALLAS FT WORTH	15	15	25
DEL RIO	83	97	118
EL PASO	9	9	6
GALVESTON	53	83	110
HOUSTON INTERCON	61	116	97
LUBBOCK	0	0	9
MIDLAND	10	10	17
PORT ARTHUR	61	98	93
SAN ANGELO	18	21	42
SAN ANTONIO	51	81	88
VICTORIA	118	198	120
WACO	26	28	44
WICHITA FALLS	10	10	22
UTAH			
MILFORD	0	0	0
SALT LAKE CITY	0	0	0
WENDOVER	0	0	[illegible]
VERMONT			
BURLINGTON	0	0	0
VIRGINIA			
LYNCHBURG	0	0	0
NORFORK	0	5	8
RICHMOND	0	0	8
ROANOKE	0	0	0
WALLOPS ISLAND	0	0	0
WASHINGTON			
OLYMPIA	0	0	0
QUILLAYUTE	0	0	0
SEATTLE	0	0	0
SEATTLE-TACOMA	0	0	0
SPOKANE	0	0	0
STAMPEDE PASS R	0	0	0
WALLA WALLA U	0	0	10
YAKIMA	0	0	0
WEST INDIES			
SAN JUAN P.R.	420	1141	960
WEST VIRGINIA			
BECKLEY	0	0	0
CHARLESTON	0	0	7
ELKINS	0	0	0
HUNTINGTON	0	0	7
PARKERSBURG U	0	0	0
WISCONSIN			
GREEN BAY	0	0	0
LA CROSSE	0	0	0
MADISON	0	0	0
MILWAUKEE	0	0	0
WYOMING			
CASPER	0	0	0
CHEYENNE	0	0	0
LANDER	0	0	0
SHERIDAN	0	0	0

STORM SUMMARY

MARCH 1975

STATE	TORNADOES					HAILSTORMS				WINDSTORMS				LIGHTNING				@HEAVY SNOWSTORMS AND BLIZZARDS				# ICE STORMS				φ ALL OTHER			
	NUMBER	DAYS	DEATHS	INJURIES	†DAMAGE	DEATHS	INJURIES	†DAMAGE		DEATHS	INJURIES	†DAMAGE		DEATHS	INJURIES	†DAMAGE		DEATHS	INJURIES	†DAMAGE		DEATHS	INJURIES	†DAMAGE		DEATHS	INJURIES	†DAMAGE	
								PROPERTY	CORPS			PROPERTY	CORPS			PROPERTY	CORPS			PROPERTY	CORPS			PROPERTY	CORPS			PROPERTY	CORPS
Alabama	7	4		3	5						5	5																	
Alaska *																													
Arizona												5																	
Arkansas	2	1	7	30	7							5																	
California																													
Colorado												3	[illegible]							3	6								
Connecticut *																													
Delaware	1	1			3																								
Florida	8	4		1	5				3			3																	
Georgia	10	4	3	169	8							3	6																
Hawaii *																													
Idaho												4									3								
Illinois	2	2		2	4			2			2	5				5								5				7	
Indiana											3	5																	
Iowa	1	1			3									1										7					
Kansas *																													
Kentucky	1	1			4						23	5								4						1		7	
Louisiana	4	3		2	5						2	4				4													
Maine *																													
Maryland & DC *																													
Massachusetts *																													
Michigan											27	4				4				5									
Minnesota																		2	10	6				5					
Mississippi	13	4		13	6			3			2	5				5								[illegible]	[illegible]			[illegible]	[illegible]
Missouri	1	1		4	5			4		1	1	5	4			4				4								5	6
Montana *																													
Nebraska	2	1		4	5						2	5	4					3			7								
Nevada *																													
New Hampshire *																													
New Jersey												4																	
New Mexico *																													
New York											2	5																	
North Carolina	8	4		23	6						20	6														1		5	
North Dakota																		3	[illegible]	[illegible]									
Ohio																				4								4	
Oklahoma	1	1			5							4				4													
Oregon												[illegible]				[illegible]				[illegible]								[illegible]	
Pacific Area *																													
Pennsylvania	1	1			4							5							[illegible]				[illegible]	[illegible]				4	
Puerto Rico *																													
Rhode Island *																													
South Carolina	3	1		16	5			3	3		14	5	3	1		3												5	5
South Dakota																				6									
Tennessee	6	1		24	6						5	6		1		5										4		7	
Texas	9	5	2	14	6			[illegible]			1	5	[illegible]																
Utah												4								6									
Vermont *																													
Virginia	3	2			5						1	[illegible]														3	3	[illegible]	[illegible]
Virgin Islands *																													
Washington											9	5																	
West Virginia												4																	
Wisconsin											[illegible]	5							[illegible]	5							[illegible]	5	
Wyoming																				6	C								

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

MARCH 1975

Herbert J. Thompson, Office of Hydrology

Record flooding occurred during the month in two areas of the country. During the period of the 11th-14th a massive storm system moved from the south Central Plains states across the southern portion of the Ohio River Basin and the southeastern states causing major flooding - the worst in 30 years in some cases - throughout that area and along the Atlantic Coast into Virginia. The highest crest stages of record occurred on several streams, most notable of which were the Cumberland River at Williamsburg, Ky., Peachtree Creek at Atlanta, Ga., and the Red River at Port Royal, Tenn.

In the upper Mississippi Basin the rapid melting of a heavy snowpack augmented by rain caused major flooding in the upper Rock River Basin in southern Wisconsin and northern Illinois. Record crest stages occurred on the Pecatonica River at Martintown, Wis., and the Rock River at Rockton and Rockford, Ill.

The heavy inflow from the Rock River caused flooding along the upper Mississippi River, and the heavy inflow from the Ohio River caused flooding to begin along the lower Mississippi River.

Significant flooding also occurred in New Jersey, Iowa, and California, and minor flooding in several locations.

These and other hydrologic events of unusual significance or involving loss of life or property damage are discussed in more detail below.

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ST. LAWRENCE DRAINAGE		
St. Clari River	An ice jam formed on the 15th which caused high water levels in the Marine City and Algonac areas. This jam was broken up on the 18th by Coast Guard icebreakers. Damage was light due to the protective works along the river.	0	N.A.
Genessee River Basin (New York)	Rainfall of around an inch on the 19th-20th combined with some snowmelt to cause lowland flooding along Oatka and Black Creeks.	0	N.A.
	ATLANTIC SLOPE DRAINAGE		
New England-New York Streams	The storm of the 19th-20th deposited moderate to heavy rain over the area with amounts ranging from 1 to 2.5 inches. Runoff from this rain and from snowmelt produced general rises on streams in the area with most of them cresting slightly below flood stage. Minor flooding occurred on the Connecticut River at Hartford, and the Pemigewassett River crested more than 2 feet over flood stage at Plymouth, N. H. Flash flood watches and warnings were issued for many portions of the area with flash flooding reported in western Massachusetts and Connecticut, in the Catskill Mountains of New York, and in local areas of Vermont, New Hampshire, and southeastern Maine, where minor ice jams compounded the problem. Damage was generally limited to flooded cellars and cars and closed roads with no lives lost.	0	N.A.
Coastal Basins in New Jersey	The storm of the 19th deposited heavy rainfall over the area with amounts of up to 3 inches. Strong rises occurred on most streams with a number of them going over flood stage. Minor flooding occurred along portions of the Wanaque, Ramapo, and Rockaway Rivers. A crest nearly 5 feet over flood stage occurred on the Pompton	0	N.A.

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ATLANTIC SLOPE DRAINAGE-Cont'd		
	River at Pompton Plains, and the Millstone River crested 1.5 feet over flood stage at Blackwells Mills. There was 3 to 4 feet of flooding along the Raritan River. The Pequannock, Saddle, and Passaic Rivers crested just below flood stage.		
Delaware River Basin	Locally heavy rainfall with amounts of 3 inches or more occurred over the lower Delaware River Basin from the storm of the 19th. Light flooding with crests 1 to 2 feet over flood stage was reported on several smaller tributaries, including Neshaminy, Chester, and Brandywine Creeks. Several other streams crested just short of flood stage, including Assunpink and Perkiomen Creeks, and the Schuylkill River at Philadelphia.	0	N.A.
Potomac River Basin	Rains of 2 to 3 inches on the 19th-20th combined with some snowmelt to produce significant flooding in the middle reach of the Potomac River. Crests in the Shenandoah Basin ranged from 3.5 to nearly 7 feet over flood stage. From 7 to 10 feet of flooding occurred along the Potomac River from Shepardstown, W. Va., to Point of Rocks, Md. Only minor flooding occurred downstream in the Washington, D. C., area. Damage was primarily to roads and bridges. Savings of $1.6 million were estimated to have resulted due to adequate warnings which permitted the removal of numerous trailers, autos, boats, and furnishings from the flood plain along the Shenandoah and Potomac Rivers and the communities of Williamsport, Brunswick, and Seneca, Md.	0	N.A.
James River Basin (Virginia)	Rains of 1 to 3 inches fell over the basin on the 13th-15th with the heavier amounts over the lower portion which resulted in flooding along the Appomattox and lower James River. Crests were in the range of about 2 to 4 feet over flood stage. On the 17th rainfall averaging about 1.5 inches occurred over the lower end of the basin causing a second crest at Richmond. These two storms caused saturated soil conditions and high river levels prior to the storm of the 19th-20th which deposited rainfall of up to more than 4 inches over the basin with the heaviest amounts over the middle portion. Serious flooding resulted along the James River at and below Scottsville. Crest stages of up to 15 feet over flood stage were reported. Damage to agriculture and highways was extensive. In Richmond a mile square area of the city was inundated by up to 8 feet of water with about 50 businesses affected. Serious flooding also occurred along the Rivanna River with a crest 9 feet over flood stage at Palmyra. Among the counties suffering losses were: Albemarle, $43,000 of which $16,000 was to highways; Goochland, $85,000, of which $60,000 was to highways; and Nelson, $30,000 to roads. Minor flooding occurred in the upper James Basin.	0	1,200

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

Basins and Streams	FLOOD EVNET	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ATLANTIC SLOPE DRAINAGE-Cont'd		
Roanoke, Tar, Neuse, and Cape Fear River Basins	Major flooding occurred on these streams during March with near record crest stages reported at some points. Monthly rainfall totals were generally well above normal, with Raleigh-Durham reporting 3 inches above normal. There were several periods of heavy rain during the month but the flooding was primarily the result of the storm of the 13th-14th which deposited amounts ranging up to 7.5 inches with the heaviest amounts in the mountainous headwaters. The other periods of rain with amounts 0.5 to 2.5 inches occurred on the 17th, 19th, 25th, and 30th which caused additional crests on some smaller headwaters streams but generally served to augment and prolong flooding on the major streams. The principal exception was in the Roanoke Basin where 3.5 inches of rain on the 30th over the upper Dan River caused the highest crest of the month at Danville, Va., 6.6 feet over flood stage, and on the middle Roanoke River where the highest crests, 6 to 8.5 feet over flood stage, resulted from the storm of the 19th. Elsewhere in the Roanoke Basin the Dan River had a crest 11.7 feet over flood stage at Paces, Va., on the 15th while flooding on the lower Roanoke River, which is controlled by reservoirs, extended into April with the crests in April. The level of Kerr Reservoir on the Roanoke reached 316.8 feet - the highest level ever recorded and only 3.2 feet below the top of the dam. Crests along the Tar River ranged from 2 to more than 8 feet over flood stage with the crest at Louisburg equalling that of Feb. 1973, which was the highest since 1955. Downstream on the Tar River crests were the highest since at least 1964. Crests along the Neuse River were in the range of 7.5 to 10.5 feet over flood stage and were also the highest since at least 1964. Along the Cape Fear River crests ranged from 6 to 14 feet over flood stage but were generally lower than those of 1973. Numerous evacuations of homes and extensive damage occurred along these streams ranging into the hundreds of thousands of dollars. Losses of $22,000 have been reported at Danville, Va., on the Dan River and $250,000 at Weldon, N. C., on the lower Roanoke River, where 600 acres were inundated.	0	N.A.
Yadkin-Pee Dee River Basin	Monthly rainfall totals ranged from 4 inches along the coast to 11.5 inches in the headwaters of the basin. During the four-day period ending on the 14th, 4 to 5 inches of rain fell over the Yadkin Basin causing significant flooding with a crest 8.5 feet over flood stage at Yadkin College, N. C. The Rocky River crested 13 feet over flood stage at Norwood, N. C., with losses estimated at $3,000, mainly agricultural. Downstream on the Pee Dee River this storm caused a crest nearly 12 feet over flood stage at Cheraw, S. C., and 8 feet over flood stage at Pee Dee, S. C., where the crest stage of 27.81 feet was the highest stage recorded		

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ATLANTIC SLOPE DRAINAGE-Cont'd		
	since 1945. Losses were estimated at $20,000 to livestock and wages of logging crews. Savings from warnings were estimated at $50,000. Rains of 1 to 2 inches occurred on the 19th and 20th over much of the Basin, with about 3 inches over the Lumber River where flooding had continued from February and lasted into April with another crest 4 feet over flood stage at Lumberton, N. C., on the 21st from this storm. There were some evacuations at Lumberton with losses estimated at $7,000. Minor flooding occurred along the Lynches River. Rainfall amounts of 1 to 2 inches on the 24th and 25th combined with inflow from the Lumber River caused minor flooding along the Little Pee Dee River. Headwater areas received 1.5 to 3.5 inches of rain the 29th and 30th which caused another crest 7 feet over flood stage at Yadkin College on the Yadkin River. Losses along the Yadkin River from the several periods of flooding were estimated at $20,000. Flooding also continued into April on the Little Pee Dee and lower Pee Dee Rivers.		
Santee River Basin	Serious flooding occurred in the basin - the worst since the 1940's at some points. Most of the flooding was due to a four-day period of rainfall the 11th to the 14th, which totaled as much as 9.5 inches over the mountainous headwaters. However, locally heavy rain on the 25th and 26th caused minor flooding on portions of the Broad and Saluda Rivers. In the Broad River Basin rainfall from the storm of the 11th-14th ranged from 4.5 inches over the lower portion to 8 inches over the headwaters. The crests of 4.6 feet and 16.4 feet over flood stage at Gaffney and Blair, S. C., respectively, were the highest stages recorded since 1964. Damage was estimated at $60,000, with $30,000 of this at a Burlington Mills plant at Henrietta, N. C. Savings from warnings were estimated at $120,000. In the Saluda River Basin rainfall from the storm of the 11th-14th ranged from 5.5 to 9.5 inches over the mountainous areas. The crest stage of 25.0 feet, 11 feet over flood stage, at Chappells, S. C., was the highest since the 28.7 feet stage recorded in 1940. Losses of $5,000 to livestock occurred with savings estimated at $25,000. Minor flooding occurred along the Reedy River tributary with Cleveland Park and streets in Greenville, S. C., inundated. Rainfall was light over the Congaree River reach, totaling only 1.7 inches for the storm at Columbia, S. C. However, the heavy inflow from the Broad and Saluda Rivers caused a crest 7.5 feet over flood stage at Columbia which was the highest since 1964. Flooding of the River Park subdivision south of Cayce, S. C., caused losses of $5,000. Flooding of agricultural land below Columbia caused losses of $45,000 to small grains. Savings from evacuation of livestock and equipment were estimated at $100,000. Rainfall	0	360

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

MARCH 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ATLANTIC SLOPE DRAINAGE-Cont'd		
	along the Catawba-Wateree River ranged from 4 to over 6 inches for this storm. This stream is heavily regulated by a series of dams and reservoirs. Lookout Shoals Reservoir which has no flood gates, was rapidly filled by releases from upstream reservoirs and reached a stage 6 feet over full lake level with some flooding of cabins and installations along the shore. About 50 cabins and trailers were evacuated below this reservoir. Below Mountain Island Lake 30 homes were flooded. Damage was estimated at $110,000. On the South Fork Catawba River a crest of 5 feet over flood stage occurred at McAdenville, N. C., with two warehouses successfully evacuated. Savings along the South Fork were $110,000. Downstream, on the Wateree River, Lake Wateree, which also has no flood gates, reached a stage 5.6 feet over full lake level with damage of $100,000 to cabins and other shoreline installations. This was the highest lake level since 1967. Below Lake Wateree, agricultural lowlands were flooded around Camden, S. C., where a crest of 7.5 feet over flood stage occurred, also the highest since 1967. Losses to small grains and livestock were estimated at $15,000 with savings of $135,000. Downstream on the Santee River Lake Marion was drawn down by 2.7 feet in preparation from the heavy inflow from upstream. Discharge from Lake Marion peaked at 97,400 c.f.s. on the 19th which caused extensive lowland flooding and a crest at Jamestown, S. C., 11.3 feet over flood stage which was higher than that which occurred in 1964 and one of the highest since the dam was built in the 1940's. Losses were estimated at $20,000 and savings at $120,000. Total savings from flood warnings in the Santee Basin were $660,000.		
Savannah River Basin	Flooding continued from January at Clyo, Ga., and from February near Millhaven-Wade, Ga., ending there on the 10th. Rainfall was somewhat above normal for the month with heavy amounts on the 13th and 14th which caused minor flooding to begin at Augusta, Ga., and renewed flooding near Millhaven-Wade where a crest 4 feet over flood stage occurred the 27th to 28th. At Clyo, Ga., flooding lasted throughout March and into April with a crest 6.8 feet over flood stage the end of March. Damage for this prolonged period of flooding was estimated at $160,000 by the Corps of Engineers and was entirely agricultural.	0	160
Ogeechee, Altamaha, and Satilla River Basins	Monthly rainfall totals were near normal over the lower portions of these basins and 1 to 2 inches above normal over the middle and upper areas. Rainfall was frequent during the month with heavy amounts of one inch or more reported over part of the area on the 14th, 17th, 19th, and 24th. Light flooding occurred again this month with crests of 3 feet over flood stage on the lower Ogeechee, more than 5 feet over flood stage on the upper Ocmulgee, from 4 to nearly 9 feet over flood stage	0	81

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ATLANTIC SLOPE DRAINAGE-Cont'd		
	along the Oconee, and 3 to 6 feet along the Altamaha River. The upper Satilla River just reached flood stage. Flooding extended into April along portions of the Ogeechee and Altamaha Rivers with damage for the January to April period estimated at $81,000 by the Corps of Engineers, all of which was agricultural.		
Appalachicola River Basin	Serious flash flooding occurred in the Atlanta, Ga., area on the 13th as several days of rain culminated in amounts of more than 2 inches over the area. Extensive damage, estimated at $1.7 million, was done to homes, apartments, and automobiles. A record stage of 19.4 feet, 6.4 feet over flood stage, occurred on Peachtree Creek and other streams in the Atlanta area also flooded. The Chattahoochee River crested 3.2 feet over flood stage at Atlanta. Downstream on the Appalachicola River flooding continued from February at Blountstown, Fla., ending on the 6th. However, the storm of the 13th caused renewed flooding there and augmented by heavy rains the 17th to 18th the river crested 7.7 feet over flood stage on the 22d. Flooding continued into April. Damage along the Chattahoochee from the several winter periods of flooding was estimated at $277,300, all agricultural. Serious flooding occurred again this month along the Flint River as a result of the above normal rainfall. Crest stages ranged from 3 feet over flood stage downstream to about 10 feet over flood stage in the upper reaches. Damage from the several periods of winter flooding in the Flint Basin of which this month's was the greatest, totaled $306,900. This included $116,500 to agriculture, $20,700 to transportation facilities, and $169,700 urban.	0	2,284
Alabama River Basin	Rains of at least 2 to 3 inches in amount fell over the basin on the 13th and similar amounts occurred again during the 16th to the 19th. Minor flooding occurred on the Etowah River in Georgia. No flooding was reported along the Coosa River. However, 4 to 5 feet of overflow occurred along the lower Tallapoosa River when the flood gates for Martin Dam were raised on the 16th. Downstream on the Alabama River crests of about 2 to 3.5 feet over flood stage occurred along the upper reach while crests of 6 to 8.5 feet over flood stage occurred along the lower reach. Flooding was generally confined to agricultural land. Damages along the Etowah River for the January to March period have been estimated at $24,500.	0	N.A.
Tombigbee-Black Warrior River Basin	Rainfall was much above normal over the basin during March with monthly totals in excess of 15 inches recorded over the headwaters of the Tombigbee. Much of this rain fell on the 13th with amounts of nearly 7 inches over the lower Black Warrior River decreasing to about 5 inches upstream. Amounts of 5 to 8 inches occurred over	0	3,678

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ATLANTIC SLOPE DRAINAGE-Cont'd		
	the middle and upper reaches of the Tombigbee from this storm. Intensities were high with rates of 2 inches per hour at several points. Two inches in 20 minutes were reported at Tuscaloosa, Ala., where severe flash and urban flooding occurred, blocking 30 to 40 streets and necessitating the evacuation of several families from a trailer park in the Northport area. Urban flooding was also reported in Sumiton, Fayette, Warrior, and Folkville, Ala. Flash flooding also occurred in Birmingham and at Courtland, Ala., where 5 families were evacuated. Moderate flooding occurred along the lower reach of the Black Warrior River with crests 5 to 7 feet over flood stage. Damage to agricultural land was estimated at \$297,600, while damage to recreational facilities along the river amounted to \$63,700.		
	Major flooding occurred in the Tombigbee Basin. Crest stages at Aberdeen and Columbus, Miss., were within 2 feet of those reached in March 1973 which was the flood of record at those points. Along the main stem of the Tombigbee crests were in the range of 9 to more than 14 feet over flood stage. In Mississippi there was widespread damage to roads and bridges, nearly 1,300 people were evacuated and total losses were estimated at \$1,831,900. On the main stem of the Tombigbee losses totaled \$1,533,000, including \$354,300 to agriculture, \$119,700 to transportation facilities, and \$1,059,000 urban. On the East Fork of the Tombigbee with a crest 5 feet over flood stage at Fulton, Miss., losses totaled \$298,900 including \$223,900 to agriculture, \$42,400 to transportation facilities, and \$32,600 urban industrial. In Alabama total damages were estimated at \$1,484,900 in the Tombigbee Basin with \$1,346,200 to agriculture, \$127,000 to roads, and \$11,700 urban. On the 30th-31st rains of 2 inches or more over the headwaters caused the upper Tombigbee to return to flood condition with crests 3 to 6 feet over flood stage which continued into April. Flooding lasted into April on the lower Tombigbee also.		
Pascagoula River Basin	Monthly rainfall averaged about 15 percent above normal with rains of up to about 3 inches on the night of the 18th-19th causing minor flooding on Tallahala Creek and the Leaf River in the headwaters of the basin. Damages were estimated at \$5,200 to agriculture and \$16,000 to recreational facilities along the streams.		21
Pearl River Basin (Mississippi)	The flooding which continued from February on the Pearl River at and below Jackson had ended by the 12th. However, heavy rainfall of 5 to 8 inches over the upper part of the basin during the period of the 10th-14th brought the river back over flood stage thru the end of the month with amounts of an inch or more on the 17th, 19th, and 30th contributing to the flooding. Crests were a little higher than those which occurred in February and were generally in the range of 3.5 to 5.5 feet over		704

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

MARCH 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ATLANTIC SLOPE DRAINAGE-Cont'd		
	flood stage. However, more than 14 feet of flooding occurred around Jackson and less than 2 feet at Columbia. Losses were estimated at $316,400 to agriculture, $340,800 to transportation facilities, and $47,000 urban. Two lives were lost at Byram when a small boat was capsized by the flood waters.		
	UPPER MISSISSIPPI BASIN		
Mississippi River tributaries in southern Wisconsin, N.E. Iowa, and N.W. Illinois	A heavy snow cover of 10 to 20 inches had accumulated over this portion of the basin by early March. Unseasonably warm temperatures the middle of the month caused a rapid melt of this snow cover with the runoff augmented by rains averaging more than an inch on the 22d. The most serious flooding occurred in northwestern Illinois. Crests of 4 to 9.5 feet over flood stage were reported along the Pecatonica River with record flooding at Martintown, Wis. More than 200 families were evacuated at Freeport. This heavy inflow from the Pecatonica helped to cause record flooding on the Rock River at Rockton and Rockford, Ill. The crest of 15.54 feet at Rockton exceeded the old record of 14.6 feet which occurred in 1937 by 0.9 feet and the crest at Rockford of 15.7 feet was 0.2 foot higher than the old record of 15.5 feet which occurred in 1973. On the lower Rock River flooding was less severe with crests of 2 to 4 feet over flood stage. Widespread evacuation of residents of many unincorporated areas between Loves Park and Shirland, Ill., occurred with 380 homes affected. The most seriously affected area was the community of North Park with three-fourths of the residential area flooded. More than 2,000 people were evacuated in the Rockford area with estimates of losses running as high as $10 million. Significant flooding also occurred on the Apple and Plum Rivers - minor tributaries of the Mississippi in northwestern Illinois. Flooding on the lower Pecatonica and along the Rock River continued into April. In northeastern Iowa losses were not heavy at this season of the year. However, crests of 4 feet and 6.6 feet over flood stage occurred on the Turkey River at Garber and the Maquoketa River at Maquoketa, respectively. Minor flooding occurred along the lower Wapsipinicon River which continued into April. Minor flooding also occurred on the Kickapoo River in southwestern Wisconsin.	0	N.A.
Iowa, Skunk and Des Moines River Basins (Iowa)	Rapid melting of an 8 to 12 inch snow cover augmented by rains of 0.5 inch on the 22d and 27th caused light flooding on several tributaries of the Cedar River, which is a major tributary of the Iowa River. A crest 4 feet over flood stage occurred on Blackhawk Creek at Hudson and nearly 5 feet of flooding on the lower Cedar River. The most significant flooding was on the Iowa River from above Marshalltown to Coralville Dam with crests of 4 to 5 feet over flood stage. Minor flooding occurred along the lower Iowa River and the English River, a tributary. Minor to moderate flooding	0	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	UPPER MISSISSIPPI BASIN-Cont'd		
	occurred in the Skunk River Basin with a crest 3.7 feet over flood stage on the South Skunk at Oskaloosa, and the Des Moines River Basin with crests 1 foot and 3.7 feet over flood stage on the North Raccoon River at Jefferson and the North River at Norwalk, respectively. This flooding generally affected farmland with losses light since crops had not yet been planted.		
Illinois River	Flooding continued on the lower Illinois River from February ending by the 20th. Crests occurred early in March and were in the range of 2 to 4 feet over flood stage. Rains of 1 to 2 inches over the lower portion of the basin on the 27th-29th brought the river back over flood stage at Beardstown on the 30th with flooding into April.	0	N.A.
Meramec River Basin	Precipitation totaling 2 to 3 inches during the period of the 9th-13th caused a brief period of minor flooding on the Bourbeuse and Big River tributaries the middle of the month. Amounts of more than 2 inches the 27th-29th caused flooding along the lower Meramec River which continued into April with crests in April.		
Upper Mississippi Main Stem	The heavy inflow from tributaries due to snowmelt runoff, particularly the Rock River, caused minor to moderate flooding along most of the Mississippi River from Keithsburg, Ill., (below the mouth of the Rock River) down to Alton, Ill. (Dam 26). Crests were in the range of 1-4 feet over flood stage. Flooding continued into April below Hannibal, Mo. Flooding began on the 29th in the reach from Cape Girardeau, Mo., to the mouth of the Ohio River with crests in April. The navigation season on the upper Mississippi opened at Guttenberg, Iowa, on the 2d, on the 19th-20th at La Crosse, Wis., and on the 22d at St. Paul, Minn.	0	N.A.
	MISSOURI BASIN		
Lower Missouri Tributaries	A period of unusually warm temperatures the middle of the month caused rapid melting of most of a heavy snow cover which amounted to 14 inches over much of the Floyd River Basin. Flooding of farmland was reported around Alton, Iowa, with a crest 2.5 feet over flood stage there. Snowmelt runoff combined with an ice jam caused minor flooding on the Platte River at Grand Island, Nebr., the first of the month. Snowmelt runoff also caused minor flooding on the Nishnabotna River around Hamburg, Iowa, and the Chariton River around Chariton, Iowa. There was little damage at this season of the year.	0	N.A.
	OHIO BASIN		
Mahoning River Basin	Rain of about one inch combined with snowmelt to cause a rise on the Mahoning River which crested slightly over flood stage at Youngstown, Ohio, on the 20th. Damage was light.	0	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

MARCH 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	OHIO BASIN-Cont'd		
Guyandotte-Big Sandy River Basins	Monthly rainfall was much above normal with totals of over 11 inches reported at several points. There were four periods of heavy rainfall. Amounts of 1 to 3.5 inches on the 12th-13th and 2.3 to 3.3 inches on the 27th-29th caused periods of flooding on the Guyandotte and Tug Fork Rivers. Crests of 2.7 and 1.9 feet over flood stage occurred on the Guyandotte River at Branchland, W. Va., with light damage. On the Tug Fork of the Big Sandy River a crest 4 feet over flood stage at Williamson, W. Va., caused damage of $27,750 during the first period of flooding. A crest 5.2 feet over flood stage occurred during the second period of flooding on the Tug Fork at Williamson with damage estimated at $447,000 by the Corps of Engineers. Families were evacuated from the town of Chattaroy, W. Va., on the Tug Fork during both periods of flooding. At Olive Hill, Ky., 300 people were evacuated and 42 houses flooded on the 14th.	0	475
Scioto River (Ohio)	The major flooding in late February ended during the first two days of March on the lower Scioto. While March rainfall over the upper portion of the basin above Columbus was only 90 percent of normal, rainfall over the basin below Columbus was 130 percent of normal with amounts of 1 to 2 inches on the 12th-14th, 19th-20th, and 29th-30th causing minor flooding on the lower Scioto.	0	225
Ohio River Tributaries in Kentucky	Major flooding occurred on several streams as a result of the storm of the 12th-14th with a record crest stage at Williamsburg on the Cumberland River and record flooding on the lower Cumberland and Tennessee Rivers and some of their tributaries from which reports are not received, including the Little River above Cadiz. The crest stage of 34.53 feet at Williamsburg exceeded the record stage of 34.2 feet which occurred in 1946. A stage of 38.0 feet was believed to have occurred in 1886 before records began there. Flood stage at Williamsburg is 21 feet. A near Record stage was reported at Barbourville also on the Cumberland River. At Nashville, Tenn., the Cumberland River flooded the basement of the Grand Old Opry House with the crest of 47.6 feet, the highest regulated stage of record. The heaviest rainfall occurred over the western part of the state with 8 inches reported on the 12th over the headwaters of the Clark River where one of the worst floods on record occurred. Flash flooding was reported over much of the state with the communities of Hopkinsville in the headwaters of the Little River and Fulton and the counties of Calloway, Marshall, and Groves particularly affected. Minor flooding of up to 5 feet occurred on the Licking River from Salyersville to Cave Run, with a crest 2.3 feet over flood stage at Salyersville. Moderate flooding of 8 to 9 feet occurred on the North Fork of the Kentucky River from Jackson to	3	20,000

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	OHIO BASIN-Cont'd		
	Beattyville and on the lower Kentucky River at Lockport, where a crest 6.5 feet over flood stage occurred. Flooding along other portions of the Kentucky River was minor. Major flooding occurred on the Barren River with a crest 14.8 feet over flood stage at Bowling Green and on the Green River from Munfordville through Woodbury Lock with crests of 17.7 feet over flood stage at Munfordville and more than 14 feet over flood stage at Brownsville and Woodbury. Damage along the Barren and Green Rivers was estimated at $1,869,000 by the Corps of Engineers with 101,000 acres inundated. Rainfall of over 3 inches occurred again over much of the state the 28th-29th with flooding recurring along the Licking, Lower Kentucky, Brashears Creek, Rolling Fork, and portions of the Cumberland River which in many cases was more severe than that which occurred earlier in the month. Eleven counties of western, south central, and southeastern Kentucky were declared disaster areas. Major flooding occurred on tributaries of the Cumberland River in Tennessee. A record crest of 47.7 feet was observed on the Red River at Port Royal exceeding the previous record of 44.4 feet in 1937. A crest 14 feet over flood stage occurred on the Harpeth River at Kingston City.		
Wabash River Basin	Flooding continued from February on the Embarras, Skillet Fork, Little Wabash, and the lower half of the White and main Wabash Rivers. Crests generally occurred late in February except for the lower Wabash and extreme lower White River, which crested early in March. This flooding had ended at all points in the basin except the lower Little Wabash by the 10th. Precipitation was much above normal over the lower portion of the basin during March with totals ranging up to over 10 inches along the Ohio River. The 7.2 inches total at Evansville was 2.5 inches above normal there. Some of this precipitation fell as snow with the 13.3 inches recorded at Evansville the third highest March total there in this century. However, no snow remained on the ground at the end of the month. Amounts of 2 to 3 inches on the 9th-14th and 3 to 4 inches the 28th-29th over the lower basin caused additional periods of flooding on these streams except for the main Wabash above the mouth of the White River. Crests from these later periods of flooding were substantially lower than those of the late February-early March flooding which caused the major damage and which in the White Basin were the highest since 1969. Losses from the prolonged flooding were estimated at $2,115,000 along the Wabash River with 208,000 acres inundated; $1,100,000 along the Embarras River with 42,000 acres affected; $1,700,000 along the main White River with 58,000 acres flooded; $1,100,000 along the East Fork of the White River with 85,000 acres flooded; $1,142,000 along the Little Wabash with 96,000 acres affected; $264,000 along the Skillet Fork with 37,000 acres inundated; $740,000 along	0	8,181

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	OHIO BASIN-Cont'd		
	the Eel River with 28,000 acres inundated; and $20,000 on Raccoon Creek with 2,000 acres affected.		
Tennessee River Basin	Rainfall amounts over the headwaters of the Tennessee River for the storm of the 13th-14th ranged up to the 7.5 inches reported at Hendersonville, N. C., with 3 to 4 inch amounts common. Flooding occurred along the French Broad River below Rosman, N. C., with crests of around 1.5 to 4.5 feet above flood stage. Downstream, major flooding occurred on the lower Tennessee from Decatur, Ala., to Savannah, Tenn., with crests of 7 to 11 feet over flood stage. Major flooding occurred on several tributaries including the Emory, Elk, and Duck Rivers and South Chickamauga Creek. The crest on the Duck River at Columbia, Tenn., of 48.3 feet was the highest since the record flood of 1948 which reached a stage of 51.8 feet. Flood stage at Columbia is 32 feet. Rainfall amounts in excess of 7 inches in 24 hours with storm totals considerably higher caused this flooding. Late in the month rainfall of 4 inches or more caused another period of flooding on South Chickamauga Creek and prolonged the flooding on the Tennessee River into April.	0	N.A.
Ohio River Main Stem	Flooding caused by the heavy rains in late February continued into March at most points at and below Cannelton, Ky., ending by the 11th at all points except Fords Ferry, Ky., and Cairo, Ill., which were above flood stage all of March. Crests which occurred early in March at most stations were generally in the range of 4 to 7 feet over flood stage altho more than 11 feet of flooding was reported at Shawneetown, Ill. The heavy tributary inflow from the storms of the 13th-14th caused a return to flood conditions generally by the 15th as far upstream as McAlpine Dam, Ky., which, aided by the storm of the 28th and 29th, generally lasted into April with the major crest early in April.	0	N.A.
	WHITE BASIN		
Black, White, and Cache Rivers	Flooding continued from February on the lower Black River, the Cache River at Patterson, and the White River at Augusta. The White River below Augusta went over flood stage early in the month in response to late February rainfall which made increased reservoir releases necessary. March rainfall totals were from 7 to 9 inches above normal with much of this occurring on the 26th-29th. Storm totals were generally in the range of 6 to 7 inches with Corning, Ark., receiving 9.16 inches during the four day period. The White River rose 12 feet in 12 hours at Batesville, Ark., cresting 10.5 feet over flood stage. The Black River crested nearly 14 feet over flood stage at Black Rock, the fourth highest stage of record and 4.0 feet below the record crest in 1915. Crests along the lower White River occurred early in April and were about 7 to 9 feet over flood stage. Considerable northeastern	0	2,658

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

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Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	WHITE BASIN-Cont'd		
	Arkansas farmland was covered with water with 292,000 acres inundated. The Cache River was 5 miles wide at some points. About 45 percent of the damage was agricultural, primarily to crops. Large numbers of livestock were saved by flood warnings. The remaining damage was largely public property and residential with 321 homes inundated.		
	ARKANSAS BASIN		
Middle Arkansas River Basin (Oklahoma)	Precipitation averaged about 2 inches above normal over east central and northeast Oklahoma during March. Heavy local showers on the 18th-19th caused minor flooding along the Illinois and Fourche La Fave Rivers and heavier rainfall on the 27th-28th caused more widespread small stream flooding. Minor flooding occurred on the Little Caney, Lower Neosho, Illinois, and Little Rivers and on Polecat and Bird Creeks. More significant flooding occurred on the Deep Fork, Poteau, and Fourche La Fave Rivers and Petit Jean Creek. A crest 7 feet over flood stage was observed on the Fourche La Fave River at Houston. Flooding on the Arkansas River at Van Buren, Ark., which had ended early in March recurred near the end of the month with a crest about 3 feet over flood stage on the 29th.	0	N.A.
	RED BASIN		
Red River tributaries in Oklahoma	Heavy local rainfall caused Clear Boggy Creek to go over flood stage on three occasions during the month with the most significant flooding near the end of the month when a crest 3 feet over flood stage occurred at Caney. The Blue River also reached flood stage at Blue on the 29th.	0	N.A.
Sulphur River	Frequent showers with three periods of rain of more than an inch on the 9th-10th, 13th-14th, and 27th-28th caused minor flooding on the upper Sulphur River. Downstream at Naples a crest 4 feet over flood stage occurred on the 19th.	0	N.A.
Ouachita-Black River Basin	Rainfall during March totaled as much as 10 inches with the heaviest amounts on the 13th-14th and the 27th-28th. Some flooding occurred in the basin with a crest 3 feet over flood stage on the Saline River at Benton, Ark., on the 29th and crests of 3.7 and 4.7 feet over flood stage on the Ouachita River at Camden, Ark. Minor flooding occurred below Camden down to Columbia, La. Flooding began at Jonesville Lock on the Black River on the 14th and extended into April.	0	N.A.
Lower Red River	Flooding of unprotected areas was reported along the lower Red River beginning about the 15th and continuing into April. There are no reporting stations along this reach of the river.	0	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

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Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	LOWER MISSISSIPPI BASIN		
Mississippi tributaries in Tennessee	Major flooding struck western Tennessee as a result of the heavy rains of the 13th-14th with amounts of up to at least 8 inches reported for the storm. Flooding is rather rare in this area. The reporting network is not well developed and much flood data is not available. On many smaller streams flood stages have not yet been defined. However, it appears that flooding occurred on nearly all streams in the area. Crests more than 10 feet over flood stage occurred on the Obion River and the North and South Forks of the Forked Deer River. Damage in Union City in the Obion River Basin was estimated at $500,000 with 15 homes evacuated. In the Forked Deer River Basin 5 families were evacuated at Dyersburg with $50,000 damage. At South Fulton in the Hatchie River Basin 1,000 people were evacuated with losses of $2 million. Flooding was also reported on the Loosahatchie, and Wolf Rivers and on Nonconnah Creek. The storm of the 27th-29th also caused flooding on most of these streams of somewhat lesser magnitude.	0	3,000
St. Francis River	The St. Francis River was reported to be over flood stage the entire month caused by the same storms that affected the White River Basin discussed above with the storm of the 26th-29th producing the crest nearly 6 feet over flood stage on the 29th. Much farmland was flooded with the river 4 to 5 miles wide at some points.	0	N.A.
Yazoo-Big Black River Basin	Flooding continued from February along portions of the Tallahatchie-Yazoo River ending by the 8th. March rainfall was well above normal reaching 180 percent of normal over much of the Yazoo Basin and the middle portion of the Big Black Basin. Most of this rain occurred during the period of the 10th-14th with 5-8 inch rains over this area. Although crests of 9 to 10 feet over flood stage occurred along the Big Black River with losses estimated at $200,000, the major damage occurred in the lower Yazoo Basin with backwater from the flooding Mississippi River a primary contributing factor. By the end of March more than 570,000 acres of fertile farmland were under water with about 90 percent of Sharkey and Issaquena Counties flooded. Between seven and eight hundred families were evacuated from the flooded area which continued to increase into April.	0	17,900
Lower Mississippi-Atchafalaya River	Minor flooding continued from February in the New Madrid to Caruthersville reach ending by the 12th. Heavy inflow mainly from the Ohio River, discussed above, caused flooding at most points from Caruthersville, Mo., down to Donaldsonville, La., by the end of March. This flooding continued into April with crests reached in April. Flooding continued on the Atchafalaya River at Morgan City, La., the entire month.	0	N.A.

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Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	WEST GULF OF MEXICO DRAINAGE		
Calcasieu River Basin	Rainfall over the headwaters of the basin during March ranged from 5 to as much as 7.5 inches at Slagle, La., with amounts of over an inch on the 5th and 13th causing periods of flooding at Hineston, La., with a crest 3.6 feet over flood stage on the 21st.	0	N.A.
Sabine, Neches and Trinity River Basins	Rainfall of 1 to 4 inches occurred during March with locally heavy amounts on the 13th and 14th causing some flooding on the upper Sabine and headwaters of the Trinity River. A crest 3 feet over flood stage occurred at Mineola, Texas, on the Sabine River. Otherwise flooding was minor. In the Neches Basin, the Angelina River at Lufkin and the Neches River at Diboll, Texas, continued out of banks the entire month. Minor flooding continued from February on the lower Sabine at Deweyville and the lower Trinity at Moss Bluff due to releases from Toledo Bend Reservoir and Lake Livingston respectively.	0	N.A.
	PACIFIC SLOPE DRAINAGE		
San Joaquin River Basin	Heavy rains the last two weeks of the month caused warning stages to be reached or exceeded on the Mokelumne River at Thornton, Calif., and the Cosumnes River at Michigan Bar and McConnell, Calif.	0	0
Sacramento River Basin	A series of storms with heavy precipitation crossed northern California during March. Monthly totals ranged from 150 to 300 percent of normal. Many stations reported the heaviest March precipitation of record. During the week ending on the 9th precipitation totals ranged up to over 4 inches with the heaviest amounts on the 7th producing a strong rise on the upper Sacramento which crested 2 feet below flood stage at Tehama Bridge. During the week ending on the 23d precipitation totals ranged up to more than 6 inches with the heaviest amounts the 17th-19th and 20th-22d causing crests of 1.6 and 2.6 feet over flood stage at Tehama Bridge. During the week ending on the 30th precipitation totaling up to more than 4 inches occurred with most of it on the 24th-25th. Flood stage was again exceeded at Tehama Bridge, in this case by 1.5 feet. No other station went over flood stage but warning stages were exceeded at several points from Hamilton City to Fremont. Overflow into the bypass system occurred at all fixed weirs during the last half of the month. Damage was limited to low-lying farm land and some road systems.	0	N.A.
Central Coastal Basins in California	A series of storms during March produced monthly precipitation totals of more than 200 percent of normal over the area. Heavy rain was reported on the 2d, 7th, 10th, 14th, 16th, 22d, and 25th with rises on streams in the area on each occasion. The Napa River crested 2 feet over flood stage on the 21st. Flood stages were not exceeded on the Russian, Pajaro, and Salinas Rivers altho the Russian River crested about one foot below flood	[illegible]	N.A.

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	PACIFIC SLOPE DRAINAGE-Cont'd		
	stage on the 22d.		
Eel River	Serious flooding occurred during March along the Eel River as a result of the series of storms discussed above. No stage data is available at this time.	0	500
Coastal Basins in Oregon	Frequent rains occurred during the month with heaviest amounts on the 18th and 24th. The storm of the 18th deposited up to 6 inches of rain over the area with the South Fork of the Coquille River cresting 2.0 feet over flood stage at Myrtle Point. The storm of the 24th left amounts of up to 4 inches over the area with the South Fork of the Coquille River again exceeding flood stage this time by 0.7 foot. Strong rises occurred on all streams but no other streams exceeded flood stage altho the Rogue River crested 0.5 foot below flood stage at Grants Pass on the 18th. Damage was confined to low-lying pasture lands and secondary roads.	0	N.A.
Willamette Basin	Precipitation occurred on about half of the days during March with the wettest period on the 16th-20th when 5-7 inches fell over northwestern Oregon. Rises occurred on all streams but only Johnson Creek went slightly over flood stage.	0	5
	PUERTO RICO		
	Rainfall over the Island was near normal with an average of 2.80 inches. Most of this occurred in two periods the 3d-4th, and 8th-9th. Several stations in the interior reported 24-hour totals of 4-5 inches which caused some local urban flooding. However, soil moisture deficiencies ranging up to 4.5 inches were apparently enough to prevent significant stream runoff.		

FLOOD STAGE DATA

(All dates in March unless otherwise specified.)

River and station	Flood stage	Above flood stages—dates From—	To—	Crest Stage	Crest Date
	Ft			Ft	
ST. LAWRENCE DRAINAGE					
St. Marys:					
Decatur, Ind.	[illegible]	Feb [illegible]	1	[illegible]	Feb [illegible]
St. Josephs:					
Montpelier, Ohio	10	Feb [illegible]	1	[illegible]	Feb [illegible]
Tiffin:					
Stryker, Ohio	11	Feb 24	1	[illegible]	Feb [illegible]
Maumee:					
Ft. Wayne, Ind.	[illegible]	Feb [illegible]	1	[illegible]	Feb [illegible]
Oatka Creek:					
Garbutt, N. Y.	[illegible]	[illegible]	[illegible]	[illegible]	21
Black Creek:					
Churchville, N. Y.	[illegible]	[illegible]	21	[illegible]	21
ATLANTIC SLOPE DRAINAGE					
Pemigewasset:					
Plymouth, N. H.	11	20	[illegible]	[illegible]	[illegible]
Connecticut:					
Hartford, Conn.	16	[illegible]	[illegible]	[illegible]	[illegible]
Wanaque:					
Wanaque, N. J.	5	[illegible]	21	[illegible]	21
Pompton:					
Pompton Plains, N. J.	12	20	21	[illegible]	21
Ramapo:					
Mahwah, N. J.	8	[illegible]	21	[illegible]	[illegible]
Rockaway:					
Boonton, N. J.	[illegible]	20	21	[illegible]	21
Millstone:					
Blackwells Mills, N. J.	7	[illegible]	21	[illegible]	[illegible]
Raritan:					
Stanton, N. J.	[illegible]	[illegible]	[illegible]	[illegible]	
Manville, N. J.	[illegible]	19	[illegible]	16.11	[illegible]
Bound Brook, N. J.	8	[illegible]	[illegible]	10.83	[illegible]
Neshaminy Creek:					
Langhorne, Pa.	9	19	[illegible]	[illegible]	[illegible]
Chester Creek:					
Chester, Pa.	8	[illegible]	[illegible]	[illegible]	[illegible]
Brandywine Creek:					
Downingtown, Pa.	8	[illegible]	[illegible]	[illegible]	[illegible]
Chadds Ford, Pa.	[illegible]	19	[illegible]	[illegible]	[illegible]
North Fork Shenandoah:					
Strasburg, Va.	17	[illegible]	[illegible]	[illegible]	[illegible]
South Fork Shenandoah:					
Front Royal, Va.	[illegible]	[illegible]	1	[illegible]	[illegible]
Shenandoah:					
Millville, W. Va.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Monocacy:					
Frederick, Md.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Potomac:					
Williamsport, Md.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Shepherdstown, W. Va.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Point of Rocks, Md.	[illegible]	[illegible]	[illegible]	26.09	[illegible]
Little Falls, Va.	[illegible]	[illegible]	[illegible]	12.22	[illegible]
Wisconsin Avenue, D. C.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Bent Creek:					
Bent Creek, Va.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Rivanna:					
Palmyra, Va.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]					
[illegible]					
Farmville, Va.	[illegible]	[illegible]	[illegible]	17.60 [illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	25.30 23.15	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	12.28 9.82	[illegible]
[illegible]					
[illegible], Va.	[illegible]	[illegible]	[illegible]	17.80	[illegible]
[illegible], Va.	[illegible]	[illegible]	[illegible]	17.90	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	22.19 [illegible]	[illegible]
Scottsville, Va.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	E20.5 31.4	[illegible]
Columbia, Va.	[illegible]	[illegible]	[illegible]	E19.0 E33.0	[illegible]
Cartersville, Va.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
State Farm, Va.	[illegible]	[illegible]	[illegible]	E15.5 E22.5	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	14.29 [illegible] 20.00	[illegible]
Richmond, Va. (City Locks)	[illegible]	[illegible]	[illegible]	[illegible] 20.76	[illegible]
[illegible]					
[illegible]	[illegible]	[illegible]	[illegible]	[illegible] 15.6 17.6	[illegible]
Paces, Va.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Roanoke:					
Roanoke, Va.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Altavista, Va.	[illegible]	[illegible]	[illegible]	[illegible] 24.0	[illegible]
Brookneal, Va.	[illegible]	[illegible]	[illegible]	27.2 31.5	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	29.3	[illegible]
Scotland Neck, N. C.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Williamston, N. C.	[illegible]	[illegible]	[illegible]	11.1	Many Days Apr 15-23
Fishing Creek:					
Enfield, N. C.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Tar:					
Louisburg, N. C.	[illegible]	[illegible]	[illegible]	22.0	[illegible]
Rocky Mount, N. C.	[illegible]	[illegible]	[illegible]	12.0	[illegible]
Tarboro, N. C.	[illegible]	[illegible]	[illegible]	27.3	
Greenville, N. C.	[illegible]	[illegible]	[illegible]	18.9	
[illegible]					
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Smithfield, N. C.	[illegible]	[illegible]	[illegible]	23.6	[illegible]
Goldsboro, N. C.	[illegible]	[illegible]	[illegible]	24.3	[illegible]
Kingston, N. C.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]					
Haw River, N. C.	[illegible]	[illegible]	[illegible]	23.0 19.9	[illegible]
Cape Fear:					
Fayetteville, N. C.	[illegible]	[illegible]	[illegible]	40.7	[illegible]
Huske Lock & Dam, N. C.	[illegible]	[illegible]	[illegible]	55.8	[illegible]
Elizabethtown, N. C.	[illegible]	[illegible]	[illegible]	30.8	[illegible]
[illegible]					
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible] 19.7	[illegible]

FLOOD STAGE DATA

(All dates in March unless otherwise specified)

MARCH 1975

River and station	Flood stage	Above flood stages –dates: From–	To	Crest: Stage	Date
	Ft.			Ft.	
ATLANTIC SLOPE DRAINAGE-Cont'd					
Rocky:					
Norwood, N. C.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Lynches:					
Effingham, S. C.	[illegible]	[illegible]	21	[illegible]	21
Lumber:					
Lumberton, N. C.	9	Jan [illegible]	1/	[illegible]	[illegible]
Little Pee Dee:					
Galivants Ferry, S. C.	9	Jan 14 [illegible]	1[illegible] 1/	#11.1 10.78	Feb 25 26
Pee Dee:					
Cheraw, S. C.	[illegible]	14	[illegible]	[illegible]	16
Pee Dee, S. C.	[illegible]	Feb [illegible] 1[illegible]	[illegible] 1/	20.5 27.81	Feb 23 20
Broad:					
Gaffney, S. C.	10	13	15	14.[illegible]	17
Blair, S. C.	14	13 25	21 26	[illegible] 14.0	15 25
Reedy:					
Greenville, S. C.	9	13	14	[illegible]	14
Saluda:					
Pelzer, S. C.	[illegible]	13	16	[illegible]	14
Chappells, S. C.	14	14 24	21 24	25.04 15.2	15 24
Congaree:					
Columbia, S. C.	[illegible]	14	17	[illegible]	16
South Fork Catawba:					
McAdenville, N. C.	10	[illegible]	16	[illegible]	16
Catawba:					
Lookout Shoals Reservoir, N. C.	100	13	[illegible]	[illegible]	14
Wateree:					
Wateree Reservoir, S. C.	[illegible]	[illegible]	1/	105.6	15
Camden, S. C.	[illegible]	14	21	30.55	16
Santee:					
Jamestown, S. C.	[illegible]	19	[illegible]	[illegible]	23
North Fork Edisto:					
Orangeburg, S. C.	8	19	21	8.3	20
Edisto:					
Givans Ferry, S. C.	[illegible]	Feb 19 21	[illegible] 1/	12.6 11.8	Feb 27 26
Broad:					
Carlton Bridge, Ga.	15	14	15	[illegible]	14
Savannah:					
Augusta 8 SSE, Ga. (Butler Creek)	[illegible]	[illegible]		[illegible]	[illegible]
Millhaven-Wade 2 SE, Ga.	[illegible]	Feb [illegible] [illegible]	[illegible] 1/	16.9 [illegible]	Feb [illegible] 27-28
Clyo, Ga.	[illegible]	Jan [illegible]	1/	#17.[illegible]	25-31
Ogeechee:					
Midville, Ga.	[illegible]	19	[illegible]	[illegible]	[illegible]
Scarboro, Ga.	[illegible]	Feb [illegible] 19	[illegible] 1/	10.7 10.1	Feb [illegible] 21-23
Eden, Ga.	[illegible]	Feb 21 1[illegible]	[illegible] 1/	12.4 12.0	27-Mar 1 [illegible]
Ocmulgee:					
Macon, Ga.	[illegible]	14	[illegible]	23.3	[illegible]
Hawkinsville, Ga.	[illegible]	[illegible]	[illegible]	27.6	19
Lumber City, Ga.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Oconee:					
Milledgeville, Ga.	[illegible]	[illegible]	[illegible]	28.7	[illegible]
Dublin, Ga.	[illegible]	[illegible]	14	26.7	[illegible]
Mt. Vernon, Ga.	[illegible]	Feb 22 [illegible]	[illegible] [illegible]	19.0 20.4	Feb [illegible] [illegible]

River and station	Flood stage	Above flood stages –dates: From–	To	Crest: Stage	Date
	Ft.			Ft.	
ATLANTIC SLOPE DRAINAGE-Cont'd					
Altamaha:					
Charlotte, Ga.	15	Feb 23 20	10 1/	20.[illegible] 23.3	Feb 28 25
Doctortown, Ga.	10	24	24	16.0	24
Satilla:					
Waycross, Ga.	16	24	24	16.0	24
EAST GULF OF MEXICO DRAINAGE					
Flint:					
Albany, Ga.	20	19	26	30.3	21
Newton, Ga.	24	21	25	28.9	23
Bainbridge, Ga.	25	22	26	28.1	24
Peachtree Creek:					
Atlanta, Ga.	13	13	14	19.4	13
Chattahoochee:					
Atlanta, Ga.	14	14	14	17.2	14
Apalachicola:					
Blountstown, Fla.	15	Feb 18 15	6 1/	22.78 22.67	Feb 22 22
Chocawhatchee:					
Caryville, Fla.	12	20	26	#13.0	23
Etowah:					
Canton, Ga.	17	14	14	17.6	14
Tallapoosa:					
Tallapoosa Water Plant, Ala.	25	19	22	29.5	21
Alabama:					
Montgomery, Ala.	35	18	22	#38.4	20, 21
Selma, Ala.	45	20	22	#46.8	21
Millers Ferry Lock & Dam, Ala.	66	16	27	#74.5	23
Claiborne, Ala.	40	17	30	#46.1	25
Black Warrior:					
Bankhead Lock & Dam, Ala.	15	11 14	11 16	#15.2 #16.5	11 14
Tuscaloosa Lock & Dam, Ala.	47	14	16	52.6	14
Warrior Lock & Dam, Ala.	30	15	27	#36.9	18
East Fork Tombigbee:					
Fulton, Miss.	16	12 25	22 1/	21.10 19.15	14 30
Tombigbee:					
Amory, Miss.	20	12 30	20 1/	31.76 26.35	15 31
Aberdeen, Miss.	34	14 31	22 1/	45.16 40.2	15 Apr 1
Columbus, Miss.	29	15	22	37.81	19
Gainesville, Ala.	36	16	31	50.43	22
Demopolis Lock & Dam, Ala.	48	16	Apr 5	#61.5	25
Coffeeville Lock & Dam, Ala.	33	16	Apr 13	#55.5	28, 29
Tallahala Creek:					
Laurel, Miss.	13	19	20	13.3	19
Leaf:					
Beaumont, Miss.	20	19	22	20.8	20
Yockanookany:					
Ofahoma, Miss.	14	14	21	19.3	1[illegible]
Pearl:					
Edinburg, Miss.	20	16	22	24.4	17
Carthage, Miss.	17	14	26	22.6	16
Jackson, Miss.	18	Feb 16 14	4 1	30.90 32.30	Feb 20 20
Monticello, Miss.	19	Feb 17 18	4 1/	23.6 24.1	Feb 18 25

FLOOD STAGE DATA

(All dates in March unless otherwise specified)

[illegible]

River and station	Flood stage	Above flood stages—dates From	Above flood stages—dates To	Crest Stage	Crest Date
	Ft.			Ft.	
[illegible]					
Pearl—Continued:					
Columbia, Miss.	17	Feb 18 22	3 [illegible]	18.7 18.9	Feb [illegible] [illegible]
[illegible]	15	Feb [illegible] [illegible]	[illegible] [illegible]	[illegible] E19.5 19.53	Feb [illegible] [illegible] [illegible]
Pearl River, La.	12	Feb [illegible] [illegible]	[illegible] [illegible]	15.03 E15.5	Feb [illegible] [illegible]
Upper Mississippi Basin					
[illegible]					
Steuben, Wis.	8	[illegible]	[illegible]	8.[illegible]	[illegible]
Turkey River:					
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]					
Hanover, Ill.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Maquoketa River:					
[illegible]	14	[illegible]	[illegible]	[illegible]	[illegible]
Plum:					
[illegible], Ill.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible] River:					
[illegible]	[illegible]	18	[illegible]	11.[illegible]	[illegible]
[illegible]					
Blanchardville, Wis.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Pecatonica River:					
Darlington, Wis.	11	21	[illegible]	15.7	[illegible]
Martintown, Wis.	11	[illegible]	1	20.56	[illegible]
Freeport, Ill.	13	[illegible]	31	17.11	[illegible]
Shirland, Ill.	[illegible]	[illegible]	1	18.08	[illegible]
Kishwaukee River:					
[illegible]	[illegible]	18	[illegible]	[illegible]	[illegible]
Rock Creek:					
[illegible], Ill.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Green River:					
Geneseo, Ill.	[illegible]	[illegible] 24	[illegible] [illegible]	10.9 [illegible]	19 [illegible]
Rock River:					
[illegible], Wis.	9	[illegible]	[illegible]	11.2	[illegible]
Rockton, Ill.	[illegible]	[illegible]	[illegible]	15.54	[illegible]
Rockford, Ill.	13.5	[illegible]	[illegible]	15.7	[illegible]
[illegible], Ill.	[illegible]	[illegible]	1/	15.9	[illegible]
[illegible], Ill.	[illegible]	21	1/	14.1	[illegible]
English River:					
[illegible], Iowa	[illegible]	18	[illegible]	[illegible]	[illegible]
West Fork Cedar River:					
Finchford, Iowa	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Blackhawk Creek:					
Hudson, Iowa	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Cedar River:					
[illegible], Iowa	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]					
Marshalltown, Iowa	[illegible]	[illegible]	[illegible]	18.37	[illegible]
Marengo, Iowa	[illegible]	[illegible]	[illegible]	18.54	[illegible]
[illegible], Iowa	[illegible]	[illegible] [illegible]	[illegible] [illegible]	20.6 21.0	[illegible] [illegible]
[illegible], Iowa	[illegible]	[illegible]	[illegible]	15.36	[illegible]
Wapello, Iowa	[illegible]	[illegible]	[illegible]	11.9	[illegible]
[illegible]					
[illegible], Iowa ([illegible])	[illegible]	[illegible]	[illegible]	10.0	[illegible]
Oskaloosa, Iowa	[illegible]	[illegible]	[illegible]	18.66	[illegible]
[illegible]					
Skunk River:					
[illegible], Iowa	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
North [illegible] River:					
[illegible], Iowa	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
North River:					
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Salt River:					
[illegible], Mo.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Illinois River:					
La Salle, Ill.	[illegible]	Feb [illegible]	[illegible]	22.20	[illegible]
[illegible], Ill.	[illegible]	Feb [illegible]	[illegible]	16.3	[illegible]
Beardstown, Ill.	[illegible]	Feb [illegible] [illegible]	[illegible] [illegible]	17.8 15.2	[illegible] [illegible]
Meredosia, Ill.	[illegible]	Feb [illegible]	[illegible]	[illegible]	[illegible]
Bourbeuse River:					
Union, Mo.	[illegible]	14	[illegible]	[illegible]	[illegible]
Big River:					
Byrnesville, Mo.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Mer[illegible] River:					
Pacific, Mo.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Valley Park, Mo.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Mississippi River:					
Keithsburg, Ill.	[illegible]	[illegible]	[illegible]	13.9	[illegible]
Burlington, Iowa	[illegible]	[illegible]	[illegible]	15.9	[illegible]
Gregory Landing, Mo.	[illegible]	[illegible]	[illegible]	15.96	[illegible]
Quincy, Ill.	[illegible]	[illegible]	[illegible]	19.20	[illegible]
Hannibal, Mo.	[illegible]	[illegible]	1	19.23	[illegible]
Louisiana, Mo.	[illegible]	[illegible]	[illegible]	18.86	[illegible]
Clarksville, Mo. (Dam 24 Tailwater)	[illegible]	[illegible]	[illegible]	29.17	[illegible]
Winfield, Mo. (Dam 25 Tailwater)	[illegible]	[illegible]	1	29.75	[illegible]
Grafton, Ill.	[illegible]	[illegible]	[illegible]	20.86	[illegible]
Alton, Ill. (Dam 26 Tailwater)	[illegible]	[illegible]	1	21.81	[illegible]
Cape Girardeau, Mo.	[illegible]	[illegible]	[illegible]	35.29	[illegible]
Thebes, Ill.	[illegible]	[illegible]	[illegible]	36.14	[illegible]
[illegible]					
Floyd River:					
[illegible], Iowa	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Platte:					
Grand Island, Nebr.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Nishnabotna River:					
Hamburg, Iowa	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Chariton River:					
Chariton, Iowa	[illegible]	[illegible] [illegible]	[illegible] [illegible]	[illegible] [illegible]	[illegible] [illegible]
Ohio Basin					
Mahoning:					
[illegible], Ohio	[illegible]	[illegible]	[illegible]	——	——
Guyandotte:					
Branchland, W. Va.	[illegible]	[illegible] [illegible]	[illegible] [illegible]	[illegible] [illegible]	[illegible] [illegible]
Tug Fork Sandy:					
Williamson, W. Va.	[illegible]	[illegible] [illegible]	[illegible] [illegible]	[illegible] [illegible]	[illegible] [illegible]
Scioto:					
[illegible], Ohio	[illegible]	[illegible] [illegible]	[illegible] [illegible]	[illegible] [illegible]	[illegible] [illegible]
[illegible], Ohio	[illegible]	[illegible] [illegible] [illegible] [illegible]	[illegible] [illegible] [illegible] [illegible]	24.93 16.94 [illegible] 16.65	[illegible] [illegible] [illegible] [illegible]

FLOOD STAGE DATA

(All dates in March unless otherwise specified)

River and station	Flood stage	Above flood stages --dates From--		To--	Crest Stage	Crest Date	
	Ft.				Ft.		
Ohio Basin-Cont'd							
South Fork Licking:							
Cynthiana, Ky.	[illegible]		19	[illegible]	[illegible]		[illegible]
Licking:							
Salyersville, Ky.	18		[illegible] [illegible]	[illegible] [illegible]	[illegible] [illegible]		[illegible] [illegible]
Falmouth, Ky.	[illegible]		[illegible]	[illegible]	[illegible]		[illegible]
Miami:							
Miamitown, Ohio	[illegible]		[illegible]	[illegible]	[illegible]		[illegible]
North Fork Kentucky:							
Hazard, Ky.	20		[illegible]	14	E21.8		14
Jackson, Ky.	[illegible]		[illegible]	16	[illegible]		14
Beattyville, Ky.	[illegible]		[illegible]	[illegible]	E35.0		[illegible]
South Fork Kentucky:							
Oneida, Ky.	29		[illegible]	[illegible]	[illegible]		[illegible]
Red:							
Clay City, Ky.	[illegible]		[illegible]	14	19.50		13
Kentucky:							
Ford, Ky. Lock 10	30		15	17	30.1		16
High Bridge, Ky. Lock 7	30		15	18	32.6		16
Frankfort, Ky. Lock 4	31		15 30	19 1	34.0 35.3		19 30
Lockport, Ky.	35		14 [illegible]	20 1/	41.5 42.4		19 31
Brashears Creek:							
Taylorsville, Ky.	[illegible]		[illegible] [illegible]	[illegible] [illegible]	[illegible] #28.60		12 29
Rolling Fork:							
Boston, Ky.	40		14 29	16 [illegible]	43.07 46.15		[illegible] 31
Salt:							
Shepherdsville, Ky.	[illegible]		30	30	[illegible]		30
Barren:							
Bowling Green, Ky.	[illegible]		[illegible] [illegible]	14 30	E42.8 28.82		[illegible] 30
Green:							
Greensburg, Ky.	20		[illegible]	14	[illegible]		[illegible]
Munfordville, Ky.	[illegible]		[illegible]	17	45.71		14
Brownsville, Ky.	18		[illegible]	16	[illegible]		[illegible]
Rochester, Ky.	[illegible]		[illegible]	[illegible]	#42.40		[illegible]
Livermore, Ky.	[illegible]	Feb	[illegible] [illegible]	2 1	21.50 26.74	Feb	[illegible] 21
Woodbury, Ky.	33		13	[illegible]	#47.40		15
Calhoun, Ky.	[illegible]	Feb	[illegible] 14	[illegible] [illegible]	26.0 30.5		[illegible] 24
Spottsville, Ky.	[illegible]	Feb	[illegible] 1	[illegible] 1	32.5 34.8	 Apr	[illegible] [illegible]
Embarrass:							
Lawrenceville, Ill.	[illegible]	Feb	[illegible] 12 [illegible]	[illegible] 11 [illegible]	19.55 15.38 15.10	Feb Apr	[illegible] 16 2
East Fork White:							
Seymour, Ind.	[illegible]		[illegible] [illegible]	14 1	16.86 14.93		[illegible] [illegible]
Bedford, Ind.	[illegible]	Feb	[illegible]		26.7	Feb	[illegible]
Williams, Ind.	[illegible]	Feb	[illegible] 16	[illegible] [illegible]	14.0 [illegible]		1 17
Shoals, Ind.	[illegible]		1	[illegible]	[illegible]		[illegible]
White:							
Spencer, Ind.	[illegible]	Feb	[illegible] [illegible]	[illegible] 1	21.47 16.79	Feb	[illegible] [illegible]
Newberry, Ind.	[illegible]	Feb	[illegible]	3	[illegible]	Feb	[illegible]
Edwardsport, Ind.	[illegible]	Feb	[illegible] [illegible] [illegible]	[illegible] [illegible] 1/	23.3 18.9 19.7	Feb Apr	[illegible] [illegible] [illegible]
Ohio Basin-Cont'd							
White-Continued:							
Petersburg, Ind.	16	Feb	23 13	8 1/	23.83 21.85	 Apr	2 4
Hazelton, Ind.	16	Feb	24 13	9 1/	25.15 21.85	 Apr	3 4
Skillet Fork:							
Wayne City, Ill.	15		12	15	#18.71		14
Little Wabash:							
Wilcox, Ill.	16	Feb	23 12 21	2 18 21	22.68 20.90 17.30	Feb	25 14 21
Carmi, Ill.	20	Feb	25	1/	#31.84		4
Wabash:							
Covington, Ind.	16	Feb	23	2	21.24	Feb	26
Montezuma, Ind.	14	Feb	22	3	21.85	Feb	26
Clinton, Ind.	18	Feb	23	3	21.8	Feb	26
Terre Haute, Ind.	14	Feb	23	4	19.0	Feb	26
Hutsonville, Ind.	20	Feb	26	4	21.9		1
Riverton, Ind.	18	Feb	26	5	19.49		2
Vincennes, Ind.	16	Feb	24	7	19.69		1
Mt. Carmel, Ill.	17	Feb	24 13	10 1/	24.90 19.90	 Apr	4 3
New Harmony, Ind.	15	Feb	25 15 30	10 23 1/	#18.7 [illegible] #15.2		5 18 31
Harpeth:							
Kingston Springs, Tenn.	15		13 29	15 30	29.0 [illegible]		13 [illegible]
Red:							
Port Royal, Tenn.	30		12 29	15 30	#47.7 [illegible]		13 U
Little:							
Cadiz, Ky.	14		12 29	14 30	#18.76 #15.85		13 29
Cumberland:							
Baxter Harlan WWO, Ky.	16		12 14 30	13 14 30	17.8 16.0 16.0		12 14 30
Pineville, Ky.	1002M[illegible]		13	15	1004.3		14
Barbourville, Ky.	27		13 30	17 31	41.6 31.3		14 31
Williamsburg, Ky.	21		13 30	19 1/	34.53 22.22		15 31
Celina, Tenn.	40		E15	17	38.3		[illegible]
Carthage, Tenn.	40		E15	17	47.0		[illegible]
Nashville, Tenn.	40		13	19	47.6		[illegible]
Clarksville, Tenn.	46		13	21	57.6		[illegible]
French Broad:							
Blantyre, N. C.	17		14	15	18.8		15
Asheville, N. C.	8		14	15	9.4		14
Marshall, N. C.	10		14	14	12.1		14
Hot Springs, N. C.	13		14 30	14 30	17.5 14.5		14 30
Emory River:							
Oakdale, Tenn.	25		12	14	30.46		13
South Chickamauga Creek:							
Chickamauga, Tenn.	10		13 29	16 1/	14.32 15.06		15 30
Elk:							
Fayetteville, Tenn.	661MSL		13	14	E666.0		14
Duck:							
Shelbyville, Tenn.	722MSL		13	15	731.00		14
Columbia, Tenn.	32		12	1[illegible]	48.30		14

FLOOD STAGE DATA

(All dates in March unless otherwise specified)

River and station	Flood stage	Above flood stage—dates From—	To—	Crest Stage	Crest Date
	Ft			Ft	
[illegible]					
[illegible]					
[illegible]	[illegible]	13	[illegible]	569.91	[illegible]
Florence, Ala.	[illegible]	13	1	425.92	[illegible]
Savannah, Tenn.	380MSL	14	21	387.88	[illegible]
[illegible]					
[illegible]	23	[illegible] [illegible]	20 1/	[illegible] 24.4	[illegible] Apr [illegible]
Cannelton, Ky.	16	Feb [illegible] 16 [illegible]	[illegible] [illegible] 1/	[illegible] E19.5 20.4	Feb [illegible] [illegible] Apr [illegible]
[illegible]	[illegible]	Feb 25 15	4 1/	#42.1 [illegible]	Feb [illegible] Apr [illegible]
[illegible]	41	18 25	19 [illegible]	#42.4 #43.4	[illegible] [illegible], Apr 1
[illegible]	38	Feb 24 14	7 1/	[illegible] #46.4	[illegible] Apr [illegible]
Evansville, Ind.	[illegible]	19 27	[illegible] 1/	#42.69 43.43	21 Apr [illegible]
Cypress, Ind. Dam 48	38	[illegible] 25 15	7 1/	#43.5 #46.2	[illegible] Apr [illegible]
Mt. Vernon, Ind.	35	Feb [illegible] 14	8 1/	#41.7 #44.8	[illegible] Apr [illegible]
[illegible]	[illegible]	[illegible] 26 [illegible]	[illegible] 1/	#44.2 #47.7	[illegible] Apr [illegible]
Shawneetown, Ill.	33	Feb 25 13	11 1/	[illegible] [illegible]	[illegible] Apr [illegible]
Fords Ferry, Ky. Dam 50	[illegible]	[illegible] 24	1/	#52.5	Apr [illegible]
Golconda, Ill.	40	[illegible] [illegible] 15	[illegible] 1/	[illegible] #50.7	[illegible] [illegible]
Paducah, Ky.	[illegible]	Feb 27 14	8 1/	E40.5 E48.7	[illegible] 21
Brookport, Ill.	37	Feb 24 [illegible]	11 1/	#42.4 #53.2	[illegible] Apr [illegible]
Cairo, Ill.	40	Feb 24	1/	56.47	Apr [illegible]
White Basin					
Cache:					
Patterson, Ark.	7	Feb 2	[illegible]	10.3	[illegible] 2
Black:					
[illegible]	17	Feb [illegible] 17	[illegible] 1/	19.02 20.09	2 24
Black Rock, Ark.	14	Feb 23	1/	27.9	29
[illegible]					
Batesville, Ark.	23	28	30	33.5	28
Newport, Ark.	26	28	1/	E31.0	30
Augusta, Ark.	30	Jan 2	1/	A36.7	Apr 1
Georgetown, Ark.	21	[illegible]	1/	28.4	Apr 2
Des Arc, Ark.	24	4	[illegible]	31.4	Apr 3
Claredon, Ark.	[illegible]	2	[illegible]	32.8	[illegible]
St. Charles, Ark.	25	[illegible]	1/	[illegible]	Apr [illegible]
Arkansas Basin					
Polecat Creek:					
[illegible]	21	[illegible]	[illegible]	#22.35	28
Little Caney:					
Copan, Okla.	21	28	29	#21.6	28
Bird Creek:					
Sperry, Okla.	21	27	[illegible]	#23.61	28
Owasso, Okla.	25				
[illegible]					
Commerce, Okla.	15	28	29	#15.4	29
Illinois:					
Tahlequah, Okla.	11	[illegible] 29	[illegible] 29	[illegible] #12.6	[illegible] 29

River and station	Flood stage	Above flood stage—dates From—	To—	Crest Stage	Crest Date
	[illegible]			[illegible]	
Arkansas Basin-Cont'd					
[illegible]					
Tecumseh, Okla.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]					
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]					
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]					
[illegible]	18	[illegible]	[illegible]	21.00	[illegible]
Danville, Ark.	[illegible]	[illegible]	[illegible]	24.4	[illegible]
[illegible]					
[illegible]	25	[illegible] [illegible]	[illegible] [illegible]	25.95 [illegible]	[illegible] [illegible]
Arkansas:					
[illegible]	[illegible]	[illegible] [illegible] 28	[illegible] [illegible]	24.85 25.25	[illegible] [illegible]
Red River Basin					
Blue:					
[illegible]	21	[illegible]	[illegible]	[illegible]	[illegible]
Clear Boggy Creek:					
Caney, Okla.	19	[illegible] 18 [illegible]	[illegible] [illegible] [illegible]	#19.28 [illegible] #22.19	[illegible] [illegible] [illegible]
[illegible]					
[illegible]	44	[illegible] [illegible] [illegible]	[illegible] [illegible] [illegible]	[illegible] [illegible] [illegible]	[illegible] [illegible] [illegible]
Naples, Texas	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Saline:					
Benton, Ark.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Ouachita:					
Arkadelphia, Ark.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Camden, Ark.	[illegible]	[illegible] [illegible]	[illegible] [illegible]	29.7 E30.7	[illegible] [illegible] [illegible]
Monroe, La.	[illegible]	[illegible] [illegible] [illegible]	[illegible] [illegible]	[illegible] [illegible]	[illegible] Apr 17-18
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Black:					
Jonesville Lock, La.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Lower Mississippi Basin					
Rutherford Fork Obion:					
Kenton, Tenn.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
South Fork Obion:					
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
North Fork Obion:					
Martin, Tenn.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Obion:					
Obion, Tenn.	[illegible]	[illegible] [illegible]	[illegible] [illegible]	19.24 19.22	[illegible] [illegible]
Bogota, Tenn.	[illegible]	[illegible] [illegible]	[illegible] [illegible]	[illegible] [illegible]	[illegible] [illegible]
Middle Fork Forked Deer:					
Alamo, Tenn.	[illegible]	[illegible] [illegible]	[illegible] [illegible]	[illegible] [illegible]	[illegible] [illegible]
North Fork Forked Deer:					
Dyersburg, Tenn.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]					
[illegible]	[illegible]	[illegible] [illegible]	[illegible]	[illegible] [illegible]	[illegible] [illegible]
[illegible]	[illegible]	[illegible] [illegible]	[illegible]	[illegible]	[illegible]

FLOOD STAGE DATA

(All dates in March unless otherwise specified) MARCH 1975

River and station	Flood stage	Above flood stages—dates From	Above flood stages—dates To	Crest Stage	Crest Date
	Ft			Ft	
Lower Mississippi Basin-Cont'd					
[illegible]:					
Pocahontas, Tenn.	[illegible]	[illegible]	[illegible]	[illegible]	16
Bolivar, Tenn.	[illegible]	[illegible]	[illegible]	14.84	16
		[illegible]	1/	15.94	Apr 2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		[illegible]	1/	[illegible]	[illegible]
[illegible]:					
[illegible]	[illegible]	[illegible]	[illegible]	24.96	13
		[illegible]	[illegible]	20.40	30
Wolf:					
Germantown, Tenn.	[illegible]	12	[illegible]	27.98	14
		[illegible]	[illegible]	14.19	[illegible]
Raleigh, Tenn.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		[illegible]	[illegible]	[illegible]	[illegible]
Nonconnah Creek:					
[illegible]	[illegible]	[illegible]	[illegible]	27.11	[illegible]
		[illegible]	[illegible]	19.46	[illegible]
St. Francis:					
St. Francis, Ark.	[illegible]	[illegible]	1/	[illegible]	[illegible]
Tallahatchie:					
Swan Lake, Miss.	[illegible]	[illegible]	8	[illegible]	Feb [illegible]
Yazoo:					
Yazoo City, Miss.	[illegible]	Feb [illegible]	4	32.18	Feb [illegible]
		[illegible]	1/	32.3	[illegible]
Big Black:					
West, Miss.	[illegible]	[illegible]	[illegible]	21.4	16
Bovina, Miss.	[illegible]	[illegible]	[illegible]	38.2	[illegible]
Mississippi:					
New Madrid, Mo.	[illegible]	Feb [illegible]	[illegible]	#35.2	[illegible]
		11	1/	[illegible]	Apr [illegible]
Caruthersville, Mo.	[illegible]	Feb 27	12	[illegible]	4
		[illegible]	1/	#42.4	Apr [illegible]
Memphis, Tenn.	[illegible]	20	[illegible]	[illegible]	Apr [illegible]
Helena, Ark.	[illegible]	[illegible]	1/	[illegible]	Apr 10
Greenville, Miss.	[illegible]	[illegible]	1/	54.2	Apr 11
Vicksburg, Miss.	[illegible]	[illegible]	[illegible]	49.7	Apr 12
Natchez, Miss.	[illegible]	[illegible]	1/	54.4	Apr 14
Red River Landing, La.	[illegible]	[illegible]	1/	53.1	Apr 15-16
Baton Rouge, La.	[illegible]	[illegible]	[illegible]	41.5	Apr 14-15
Donaldsonville, La.	[illegible]	[illegible]	1/	32.5	Apr 14
Atchafalaya Basin					
Atchafalaya:					
Morgan City, La.	[illegible]	Feb [illegible]	[illegible]	[illegible]	Apr 22
[illegible]					
Calcasieu:					
Hin[illegible] La.	[illegible]	[illegible]	[illegible]	13.30	8
		[illegible]	[illegible]	15.63	21
Lake Fork:					
Quitman, Texas (n[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15
Sabine:					
Emory, Texas	[illegible]	[illegible]	14	12.24	14
[illegible], Texas	[illegible]	[illegible]	[illegible]	16.99	15
Gladewater, Texas	[illegible]	[illegible]	[illegible]	27.62	22
Deweyville, Texas	[illegible]	[illegible]	[illegible]	14.5	1
		[illegible]	[illegible]	14.52	22
[illegible]:					
Chireno, Texas (near)	[illegible]	[illegible]	[illegible]	[illegible]	31
[illegible]:					
Lufkin, Texas (near)	[illegible]	[illegible]	1/	[illegible]	Feb 2
Neches:					
Diboll, Texas (near)	[illegible]	[illegible]	[illegible]	[illegible]	Feb 17

River and station	Flood stage	Above flood stages dates From	Above flood stages dates To	Crest Stage	Crest Date
	Ft			Ft	
WEST GULF OF MEXICO DRAINAGE-Cont'd					
East Fork Trinity:					
Crandall, Texas	13	2	28	13.71	14
Chambers Creek:					
[illegible], Texas (near)	20	13	17	21.70	14
Trinity:					
[illegible] Bluff, Texas	4	Feb 2	17	8.10	Feb 22
		18	1/	6.1	27
PACIFIC SLOPE DRAINAGE					
Sacramento:					
Tehama, Calif.	213	19	19	214.6	19
		22	22	215.6	22
		25	25	214.5	25
Napa:					
St. Helena, Calif.	11	21	22	13.1	21
South Fork Coquille:					
Myrtle Point, Ore.	35	18	20	37.00	19
		[illegible]	25	35.70	25
Johnson Creek:					
Sycamore, Ore.	8	18	18	8.3	18

1/ See Previous Monthly Reports for Additional Crest Information.

P In Flood at Beginning of Month - Initial Date Unknown.

Crest Occurred in Subsequent Month - Data not Available.

RAWINSONDE DATA

Average monthly values

MARCH 1972

ALBANY, NY
1005 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	86	-2.7	-4.7	31	2.5
1000	21	170	-3.7	-4.8	30	2.1
950	31	530	-3.9	-8.9	30	5.2
900	31	955	-5.4	-11.0	30	7.1
850	31	1,403	-6.3	-13.8	30	9.4
800	31	1,877	-6.8	-16.6	30	10.2
750	31	[illegible]	-8.1	-18.6	29	11.1
700	31	2,914	-10.3	-21.1	29	13.4
650	31	3,482	-12.8	-23.1	28	15.0
600	31	4,090	-15.6	-25.7	27	16.8
550	31	4,742	-19.4	-28.8	27	19.5
500	31	5,444	-23.9	-33.1	27	20.3
450	31	[illegible]	-28.8	-37.5	26	23.1
400	31	7,039	-34.7	[illegible]	26	25.5
350	31	7,961	-41.2	-45.0	26	29.3
300	31	8,990	-48.0		26	32.4
250	31	10,179	-52.8		27	32.7
200	31	11,609	-54.9		27	32.1
175	31	12,465	-53.5		28	27.2
150	31	13,459	-52.6		27	23.0
125	31	14,635	-53.6		27	19.4
100	31	[illegible]	-55.6		27	15.5
80	31	17,479	-57.1		27	12.4
70	31	[illegible]	-57.3		28	9.4
60	31	19,197	-57.9		28	6.1
50	31	20,448	-57.8		29	3.6
40	31	21,856	-57.7		36	1.2
30	31	23,672	-57.3		05	2.3
25	29	24,829	-56.3		07	5.2
20	25	26,254	-55.4		07	6.0
15	22	28,095	-54.5		07	6.5
10	14	30,701	-51.0		34	2.8
7						
5						

ALBUQUERQUE, NM
833 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	1,619	2.1	-5.4	[illegible]	[illegible]
800	28	1,948	3.6	-4.6	25	4.5
750	28	2,469	[illegible]	-11.8	27	7.1
700	28	3,018	-3.9	-14.3	27	9.2
650	28	3,599	-7.3	-18.6	27	11.8
600	28	4,218	-11.2	-22.3	[illegible]	15.3
550	28	4,880	-15.6	-25.8	26	17.9
500	28	5,593	-20.4	-31.1	26	21.1
450	28	6,364	-26.1	-35.7	26	23.3
400	28	7,206	-32.2	-42.9	26	25.7
350	28	8,138	-38.5	-47.1	26	28.7
300	28	9,180	-45.6		26	32.3
250	28	10,376	-52.7		26	34.4
200	28	11,799	-57.2		26	34.6
175	28	12,645	-56.6		26	32.3
150	28	13,622	-57.3		26	29.7
125	28	14,771	-58.9		26	25.6
100	28	16,161	-62.2		26	20.9
80	28	17,536	-62.9		27	14.1
70	28	18,358	-63.5		26	8.6
60	28	19,306	-63.3		26	5.3
50	28	20,431	-61.7		28	3.2
40	27	21,818	-60.6		33	1.1
30	26	23,621	-58.7		01	1.9
25	23	24,772	-57.4		[illegible]	1.5
20	22	26,188	-55.6		02	1.7
15	19	28,035	-53.7		02	2.0
10	12	30,689	-46.4		27	3.6

AMARILLO, TX
887 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	1,095	.9	-4.8	24	1.7
850	31	1,433	3.6	-6.8	24	6.0
800	31	1,927	4.3	-8.4	26	9.2
750	31	2,451	2.5	-12.1	26	10.2
700	31	3,005	-.4	-15.2	26	11.7
650	31	3,593	-4.6	-18.3	26	13.6
600	31	4,218	-8.4	-23.0	26	15.9
550	31	4,888	-13.0	-27.1	26	17.5
500	31	5,606	-18.5	-31.6	26	19.7
450	31	6,383	-24.2	-36.6	26	22.4
400	31	7,232	-30.3	-42.2	26	26.7
350	30	8,167	-37.4	-47.1	26	30.4
300	30	9,210	-45.3		26	33.6
250	30	10,407	-52.8		27	37.1
200	30	11,827	-57.3		26	35.3
175	29	12,667	-57.8		27	35.1
150	29	13,639	-57.6		27	30.8
125	29	14,787	-59.3		27	28.7
100	28	16,179	-61.4		27	21.8
80	28	17,556	[illegible]		27	15.6
70	28	18,377	-63.3		26	11.3
60	28	19,323	-63.5		26	8.8
50	27	20,446	-62.1		29	3.7
40	27	21,830	-60.9		30	1.7
30	25	23,626	-59.1		35	1.9
25	24	24,774	-57.8		35	1.5
20	21	26,188	-56.2		33	2.1
15	18	28,020	-54.0		30	1.6
10	7	30,699	-47.6			

* **ANCHORAGE, AK**
1005 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	45	-6.1	-10.7	01	.9
1000	19	139	-3.9	-8.2	03	.6
950	31	489	-5.5	-12.2	03	1.5
900	31	912	-7.3	-13.6	09	1.8
850	31	1,355	-9.7	-15.6	12	2.9
800	31	1,822	-11.8	-18.1	14	[illegible]
750	31	2,313	-14.6	-21.7	15	4.7
700	31	2,833	-18.0	-24.8	16	4.7
650	31	3,383	-21.1	-28.4	17	4.5
600	31	3,970	-24.6	-32.0	17	[illegible]
550	31	4,599	-28.8	-36.6	17	5.4
500	31	5,274	-33.4	-40.2	18	6.6
450	31	6,007	-38.2	-42.2	19	5.8
400	31	6,808	-43.3	-46.2	21	6.6
350	31	7,699	-48.3		22	8.0
300	30	8,697	-51.3		23	9.8
250	29	9,877	-49.8		24	10.0
200	29	11,349	-46.1		24	10.3
175	29	12,238	-45.8		24	9.5
150	29	13,265	-45.9		24	8.9
125	29	14,477	-46.3		24	8.2
100	29	15,959	-46.9		24	6.5
80	29	17,434	-47.8		23	5.3
70	29	18,315	-48.3		24	4.5
60	29	19,330	-48.6		23	2.7
50	29	20,529	-48.6		21	2.6
40	29	21,999	-48.0		20	1.4
30	28	23,895	-47.9		11	2.6
25	28	25,098	-47.9		09	4.2
20	26	26,572	-47.8		09	5.6
15	23	28,482	-46.8		09	9.0
10	21	31,191	-45.5		09	10.3
7	15	33,594	-44.1		09	12.0
5	8	35,901	-42.5			

* **ANNETTE, AK**
1006 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	37	.3	-4.4	[illegible]	[illegible]
1000	21	160	.7	-4.2	[illegible]	.6
950	31	515	[illegible]	-5.7	[illegible]	1.6
900	31	944	[illegible]	-7.8	[illegible]	1.6
850	31	1,393	-6.7	-10.9	[illegible]	2.4
800	31	1,864	[illegible]	-14.3	24	3.8
750	31	2,361	[illegible]	-18.2	23	4.8
700	31	2,886	[illegible]	-21.5	24	5.1
650	31	3,442	-18.6	-25.1	25	5.4
600	31	4,035	[illegible]	-30.4	25	6.2
550	31	4,668	[illegible]	-35.0	25	7.2
500	31	5,349	[illegible]	-39.9	26	9.5
450	31	6,088	-36.3	-40.4	26	11.5
400	31	6,896	-41.7	-42.2	27	11.9
350	31	7,794	-46.8		28	14.5
300	31	8,802	[illegible]		28	15.8
250	31	9,987	-50.8		29	14.6
200	31	11,445	-49.4		28	10.7
175	31	12,322	-48.4		28	10.0
150	31	13,336	-48.7		29	8.4
125	31	14,531	[illegible]		28	7.2
100	31	15,987	[illegible]		30	5.2
80	31	17,437	-51.8		31	[illegible]
70	31	18,302	-52.5		33	[illegible]
60	31	19,298	-52.6		36	[illegible]
50	31	20,477	[illegible]		[illegible]	2.4
40	31	21,921	-52.1		05	4.3
30	31	23,786	[illegible]		[illegible]	7.2
25	28	24,965	-50.9		07	9.3
20	27	26,423	-50.5		07	11.3
15	26	28,301	-50.0		07	13.7
10	22	30,972	-48.9		07	19.3
7	16	33,331	-47.8		07	19.7
5	7	35,638	-45.5			

ATHENS, GA
987 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	246	6.2	2.8	27	1.1
1000						
950	31	560	7.2	.6	27	3.1
900	31	1,005	6.0	-1.7	27	6.0
850	31	1,473	5.4	-6.6	27	9.7
800	31	1,967	3.8	-8.5	27	13.3
750	31	2,490	1.8	-9.7	26	15.9
700	31	3,044	-.4	-14.6	26	18.2
650	31	3,634	-3.2	-17.2	26	20.8
600	31	4,263	-7.1	-20.5	27	23.6
550	31	4,936	-11.7	-23.9	27	26.4
500	31	5,659	-17.0	-27.4	27	29.3
450	31	[illegible]	-22.3	-33.5	27	32.5
400	31	7,297	-28.4	-38.8	27	35.7
350	31	8,243	-35.7	-43.6	27	36.0
300	31	9,294	-43.7	-47.8	27	39.6
250	31	10,496	-51.9		28	40.3
200	31	11,920	-57.7		28	43.2
175	31	12,759	-59.5		28	42.8
150	31	13,725	-59.5		27	36.8
125	31	14,860	-61.5		27	32.2
100	31	16,233	-64.5		27	25.0
80	31	17,594	-65.5		27	16.9
70	31	18,406	-65.2		27	12.4
60	31	19,347	-64.6		28	8.7
50	31	20,466	-62.5		28	6.3
40	30	21,850	-60.6		[illegible]	2.7
30	30	23,652	-58.4		[illegible]	2.6
25	29	24,799	-57.1		31	3.4
20	27	26,221	-54.9		33	2.1
15	26	28,080	-51.7		27	3.8
10	13	30,718	-46.8			

* **BARROW, AK**
1017 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	30	8	-21.7	-23.9	08	4.0
1000	30	134	-19.5	-21.9	09	5.0
950	30	517	-15.5	-19.4	11	4.4
900	30	928	-13.5	-19.2	11	3.7
850	30	1,363	-13.5	-19.7	13	3.4
800	30	1,823	-15.2	-21.1	14	3.5
750	30	2,309	-17.3	-23.5	15	3.6
700	30	2,823	-19.9	-26.0	15	4.1
650	30	3,370	-22.9	-28.9	15	4.7
600	30	3,952	-26.6	-32.1	[illegible]	4.8
550	30	4,576	-30.6	-36.3	16	5.8
500	30	5,247	-35.0	-39.3	17	6.5
450	30	5,974	-40.0	-39.7	17	6.8
400	30	6,769	-45.6	-43.4	18	7.9
350	30	7,650	-51.2		19	6.9
300	29	8,644	-55.8		20	8.1
250	28	9,798	-54.7		20	8.4
200	28	11,241	-50.4		21	9.1
175	28	12,116	-48.7		[illegible]	10.8
150	28	13,132	-47.4		23	10.4
125	27	14,337	-46.4		[illegible]	11.2
100	25	15,818	-45.9		22	11.7
80	25	17,303	-46.1		[illegible]	11.0
70	25	18,190	-46.3		[illegible]	11.7
60	24	19,211	-46.3		[illegible]	11.3
50	23	20,422	-46.1		[illegible]	10.2
40	[illegible]	21,910	-46.4		[illegible]	9.2
30	12	23,832	-45.5		[illegible]	5.6
25	6	25,035	-46.5			

BARTER ISLAND, AK
1015 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	15	-22.4	-24.7	10	3.8
1000	30	133	-16.9	-19.5	10	5.9
950	31	517	-13.3	-18.5	11	7.2
900	31	931	-11.2	-18.3	11	5.6
850	31	1,370	-11.4	-19.1	12	4.9
800	31	1,834	-13.1	-20.8	13	2.4
750	31	2,324	-15.2	-24.2	16	2.2
700	31	2,842	-18.3	-27.3	18	1.5
650	31	3,392	-21.6	-29.9	20	1.6
600	31	3,978	-25.2	-33.2	22	1.5
550	31	4,604	-29.4	-36.8	25	2.3
500	31	5,278	-34.2	-40.8	24	2.3
450	31	6,008	-39.1	-42.2	25	2.7
400	31	6,806	-44.8	-45.7	25	3.7
350	31	7,690	-50.5		25	4.7
300	31	8,682	-54.9		25	5.1
250	31	9,848	-53.7		25	5.0
200	31	11,297	-49.4		25	7.5
175	31	12,176	-47.6		25	8.2
150	31	13,198	-46.5		25	8.5
125	31	14,410	-46.4		25	8.9
100	31	15,891	-46.7		25	9.1
80	29	17,372	-47.0		25	8.5
70	29	18,258	-46.5		26	8.1
60	28	19,276	-46.9		26	8.4
50	28	20,485	-46.7		26	7.8
40	28	21,966	-46.4		27	6.8
30	27	23,876	-45.8		27	6.9
25	27	25,091	-45.7		27	5.9
20	27	26,579	-45.5		28	5.4
15	24	28,493	-45.2		29	6.0
10	17	31,214	-44.3		29	10.6

BETHEL, AK
1006 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	30	39	-13.2	-15.9	12	.9
1000	22	116	-12.5	-16.7	01	.4
950	30	477	-10.0	-14.2	15	2.6
900	30	892	-11.7	-16.0	17	3.3
850	30	1,329	-13.4	-18.6	19	3.6
800	30	1,789	-15.4	-20.0	19	3.7
750	30	2,274	-18.0	-23.5	19	[illegible]
700	30	2,787	-20.7	-26.9	20	4.6
650	30	3,332	-23.9	-30.9	20	4.8
600	30	3,912	-27.5	-35.4	19	5.4
550	30	4,533	-31.2	-38.5	19	6.1
500	30	5,203	-35.4	-40.3	19	6.6
450	30	5,930	-39.6	-41.9	20	6.7
400	30	6,727	-44.5	-42.6	20	7.9
350	30	7,615	-48.8		21	7.7
300	30	8,619	-50.8		22	8.5
250	30	9,809	-49.6		22	8.7
200	30	11,278	-47.3		22	8.8
175	30	12,162	-46.6		22	8.8
150	30	13,187	-46.0		22	8.5
125	30	14,400	-46.1		21	8.8
100	30	15,883	-46.3		21	8.2
80	29	17,361	-47.2		21	7.4
70	29	18,244	-47.7		21	6.3
60	29	19,260	-48.4		20	6.4
50	29	20,460	-48.6		20	5.2
40	29	21,928	-48.6		19	[illegible]
30	28	23,827	-48.2		17	[illegible]
25	26	25,029	-47.7		15	3.6
20	26	26,504	-47.6		14	4.6
15	17	28,431	-46.5		12	5.3
10	7	31,178	-44.2			

* **BISMARCK, ND**
954 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	503	-7.7	-11.7	36	1.2
1000						
950	21	565	-10.4	-13.2	35	.7
900	31	955	-7.5	-11.8	33	1.5
850	31	1,400	-7.6	-15.2	31	3.2
800	31	1,871	[illegible]	-16.6	29	4.2
750	31	2,370	-10.7	-18.7	29	6.0
700	31	2,898	-12.8	-20.1	29	7.7
650	31	3,462	-14.7	-23.0	29	10.3
600	31	4,064	-17.7	-26.1	29	12.0
550	31	4,711	-21.5	-30.0	29	13.4
500	31	5,407	-26.3	-33.9	29	15.6
450	31	6,160	-31.9	-38.6	28	17.3
400	31	6,982	-38.2	-44.1	28	19.3
350	31	7,889	-45.3		28	21.7
300	31	8,899	-52.4		28	22.9
250	31	10,065	-56.1		29	23.9
200	31	11,493	[illegible]		28	18.6
175	31	12,360	-51.1		28	16.8
150	31	13,363	[illegible]		28	15.7
125	31	14,546	-52.2		28	13.5
100	31	15,983	-54.2		28	10.9
80	31	17,411	-55.3		29	7.7
70	31	18,262	-55.8		29	6.4
60	28	19,240	-56.2		30	4.8
50	28	20,398	-56.5		33	2.7
40	28	21,815	-56.2		[illegible]	3.1
30	23	[illegible]	-56.1		05	5.5
25	22	24,800	-55.9		[illegible]	[illegible]
20	21	[illegible]	-55.5		[illegible]	[illegible]
15	15	28,076	-53.4		06	9.0

BOISE, ID
912 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	[illegible]	1.8	[illegible]	13	.7
1000						
950						
900	29	985	[illegible]	-4.4	14	.2
850	31	1,436	.3	-6.8	29	[illegible]
800	31	1,920	-2.8	[illegible]	29	4.2
750	31	2,428	-6.3	-11.8	29	5.8
700	31	2,965	-10.0	[illegible]	28	7.2
650	31	3,532	-13.7	-19.6	28	8.8
600	31	4,137	-17.1	-25.1	28	[illegible]
550	31	4,785	-20.8	[illegible]	27	[illegible]
500	31	5,483	-25.3	[illegible]	27	[illegible]
450	31	6,240	-30.4	[illegible]	28	[illegible]
400	31	7,067	-36.5	-45.4	28	[illegible]
350	31	7,983	-43.1		28	17.2
300	31	9,001	-50.8		28	19.9
250	31	10,173	[illegible]		29	22.2
200	31	11,591	-54.7		28	18.5
175	31	12,448	[illegible]		28	14.9
150	31	13,441	-53.5		29	[illegible]
125	31	14,613	[illegible]		28	[illegible]
100	31	16,039	[illegible]		28	[illegible]
80	31	17,453	-57.3		28	[illegible]
70	31	18,297	-57.7		29	[illegible]
60	31	19,269	-58.1		[illegible]	[illegible]
50	31	20,418	[illegible]		35	[illegible]
40	28	21,825	-57.4		05	[illegible]
30	25	23,646	-55.5		[illegible]	[illegible]
25	25	24,805	-55.9		[illegible]	[illegible]
20	[illegible]	26,237	-55.1		[illegible]	[illegible]
15	[illegible]	28,077	-54.2		[illegible]	[illegible]
10	[illegible]	30,686	-52.6			

BOOTHVILLE, LA
1015 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	1	[illegible]	12.9	06	1.1
1000	31	128	16.4	12.5	10	[illegible]
950	31	564	14.4	9.3	17	4.0
900	31	1,021	14.4	2.4	22	6.5
850	31	1,503	12.4	.8	23	8.5
800	31	2,010	[illegible]	-3.7	[illegible]	10.0
750	31	2,547	[illegible]	-9.1	[illegible]	12.2
700	31	3,114	[illegible]	-12.0	26	13.6
650	31	3,716	[illegible]	-15.6	[illegible]	[illegible]
600	31	4,356	[illegible]	-19.9	26	[illegible]
550	31	5,039	[illegible]	-24.9	27	[illegible]
500	31	5,774	-12.7	-28.2	[illegible]	[illegible]
450	31	6,569	-18.4	-32.4	26	[illegible]
400	31	7,437	-24.9	-38.5	[illegible]	27.1
350	31	8,396	[illegible]	-43.1	27	30.5
300	31	9,462	[illegible]	-47.6	[illegible]	33.8
250	31	10,678	[illegible]		27	37.6
200	31	[illegible]	[illegible]		[illegible]	41.5
175	31	12,937	[illegible]		27	40.6
150	31	13,893	[illegible]		27	38.2
125	31	15,008	[illegible]		27	32.7
100	[illegible]	16,346	-70.1		[illegible]	27.1
80	[illegible]	17,672	-70.9		27	17.8
70	[illegible]	18,464	-70.3		[illegible]	12.1
60	[illegible]	19,387	-67.4		28	8.3
50	[illegible]	20,495	-63.7		[illegible]	4.1
40	24	21,875	-60.4		27	5.3
30	24	23,679	-57.8		29	5.9
25	24	24,835	-55.9		[illegible]	5.9
20	24	26,264	-53.0		29	[illegible]
15	21	28,129	-49.3		25	[illegible]
10	[illegible]	30,814	-43.6			

* **BROWNSVILLE, TX**
1011 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	7	18.2	15.7	15	1.9
1000	31	99	18.9	16.1	15	3.2
950	31	539	17.5	12.2	17	7.6
900	31	1,001	[illegible]	8.6	18	7.5
850	31	1,488	16.2	2.5	[illegible]	[illegible]
800	31	2,003	[illegible]	-1.2	[illegible]	6.3
750	31	2,547	[illegible]	-7.8	[illegible]	7.7
700	31	3,121	[illegible]	-12.3	[illegible]	8.2
650	31	3,729	[illegible]	-14.3	[illegible]	9.0
600	31	4,375	[illegible]	-17.6	[illegible]	11.0
550	31	5,063	-5.7	-22.4	25	13.3
500	31	5,802	-11.2	-27.9	[illegible]	16.7
450	31	6,604	-16.8	-32.4	[illegible]	19.9
400	[illegible]	7,478	-23.3	-37.6	[illegible]	23.5
350	[illegible]	8,444	-30.4	-42.3	[illegible]	27.9
300	30	9,518	[illegible]	-48.4	[illegible]	34.9
250	[illegible]	10,744	-48.6		[illegible]	39.2
200	[illegible]	12,178	-57.9		[illegible]	42.9
175	[illegible]	13,013	-61.1		[illegible]	42.3
150	[illegible]	[illegible]	-64.3		[illegible]	36.0
125	[illegible]	[illegible]	-68.2		[illegible]	30.7
100	[illegible]	16,392	-73.1		[illegible]	22.6
80	[illegible]	17,693	-74.7		[illegible]	13.7
70	[illegible]	18,469	-73.7		[illegible]	[illegible]
60	[illegible]	19,383	-68.9		27	[illegible]
50	[illegible]	20,490	-63.0		[illegible]	[illegible]
40	[illegible]	21,869	-60.9		[illegible]	[illegible]
30	[illegible]	23,672	-57.6		[illegible]	[illegible]
25	[illegible]	24,829	-55.8		[illegible]	[illegible]
20	[illegible]	26,258	-53.3		[illegible]	[illegible]
15	[illegible]	28,133	-49.6		[illegible]	[illegible]
10	[illegible]	30,820	[illegible]			

BUFFALO, NY
989 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	218	-2.2	-5.5	[illegible]	.9
1000						
950	31	534	-3.9	-7.9	25	[illegible]
900	31	[illegible]	-4.9	[illegible]	26	5.4
850	31	1,409	-6.1	[illegible]	27	[illegible]
800	31	1,883	-7.2	-15.9	28	[illegible]
750	31	2,384	-9.2	-17.5	[illegible]	[illegible]
700	31	2,915	-11.3	-20.1	27	[illegible]
650	31	3,482	-13.6	-22.3	27	14.1
600	31	4,087	-16.4	-24.9	[illegible]	16.0
550	31	4,738	-20.2	[illegible]	27	17.6
500	31	[illegible]	-24.8	[illegible]	27	[illegible]
450	31	6,196	[illegible]	-37.1	27	[illegible]
400	31	7,025	[illegible]	[illegible]	27	[illegible]
350	31	7,944	[illegible]	-46.1	27	[illegible]
300	31	8,969	[illegible]		27	[illegible]
250	31	10,157	[illegible]		27	[illegible]
200	31	11,590	[illegible]		27	[illegible]
175	31	12,448	-53.4		27	[illegible]
150	31	13,444	-52.2		27	[illegible]
125	31	14,620	[illegible]		27	[illegible]
100	31	16,048	[illegible]		27	[illegible]
80	30	17,466	[illegible]		[illegible]	[illegible]
70	30	18,312	[illegible]		28	[illegible]
60	29	19,286	[illegible]		[illegible]	[illegible]
50	29	20,438	[illegible]		29	2.4
40	29	21,847	[illegible]		35	1.5
30	28	23,665	[illegible]		06	3.9
25	26	24,826	[illegible]		[illegible]	5.8
20	[illegible]	26,247	[illegible]		06	6.2
15	19	28,082	[illegible]		[illegible]	5.0
10	[illegible]	[illegible]	[illegible]			

CAPE HATTERAS, NC
1015 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	4	[illegible]	[illegible]	[illegible]	[illegible]
1000	30	135	10.5	4.2	[illegible]	[illegible]
950	31	[illegible]	8.4	[illegible]	[illegible]	[illegible]
900	31	[illegible]	6.0	[illegible]	[illegible]	[illegible]
850	31	[illegible]	4.6	[illegible]	[illegible]	[illegible]
800	31	[illegible]	[illegible]	-9.4	[illegible]	[illegible]
750	31	[illegible]	.6	[illegible]	[illegible]	[illegible]
700	31	[illegible]	-2.0	[illegible]	[illegible]	[illegible]
650	31	[illegible]	-5.0	[illegible]	[illegible]	[illegible]
600	31	[illegible]	-8.0	[illegible]	[illegible]	[illegible]
550	31	[illegible]	-13.0	[illegible]	[illegible]	[illegible]
500	31	[illegible]	-18.0	[illegible]	[illegible]	[illegible]
450	31	[illegible]	-23.0	[illegible]	[illegible]	[illegible]
400	31	[illegible]	-29.4	[illegible]	[illegible]	[illegible]
350	31	[illegible]	[illegible]	-43.4	[illegible]	[illegible]
300	31	[illegible]	-44.2		[illegible]	[illegible]
250	31	[illegible]	-51.6		[illegible]	[illegible]
200	31	[illegible]	-57.5		[illegible]	[illegible]
175	[illegible]	[illegible]	-57.9		[illegible]	[illegible]
150	[illegible]	[illegible]	-57.5		[illegible]	[illegible]
125	[illegible]	[illegible]	-59.3		[illegible]	[illegible]
100	[illegible]	[illegible]	-61.6		[illegible]	[illegible]
80	[illegible]	[illegible]	-63.0		[illegible]	[illegible]
70	27	[illegible]	-63.5		[illegible]	[illegible]
60	[illegible]	[illegible]	-62.4		[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
40	[illegible]	[illegible]	-59.7		[illegible]	[illegible]
30	[illegible]	[illegible]	-57.6		[illegible]	[illegible]
25	[illegible]	[illegible]	-56.7		[illegible]	[illegible]
20	[illegible]	[illegible]	-55.0		[illegible]	[illegible]
15	[illegible]	[illegible]	-52.0		[illegible]	[illegible]
10	[illegible]	[illegible]	-46.0			

RAWINSONDE DATA

Average monthly values

MARCH 1975

Standard pressure surface (mb)	* CARIBOU, ME 986 MB						CENTREVILLE, AL 1000 MB						CHARLESTON, SC 1016 MB						CHATHAM, MA 1010 MB						CHIHUAHUA, MEXICO 854 MB					
	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	191	-8.6	-13.9	31	2.5	30	140	8.1	5.0	12	.5	31	13	10.1	6.1	29	1.2	31	16	.6	-4.0	31	2.2	31	1,428	8.9	-6.0	23	2.7
1000							17	173	5.1	-.6	07	1.1	31	140	11.3	5.6	28	1.3	24	132	.5	-5.6	32	3.0						
950	31	475	-7.3	-11.8	30	4.0	30	565	8.3	1.7	21	3.2	31	568	10.2	2.4	27	4.4	31	509	-.6	-6.8	31	4.8						
900	31	896	-9.0	-13.2	31	5.5	30	1,011	7.6	-2.3	25	6.5	31	1,016	8.4	-.5	26	6.8	31	941	-2.1	-9.8	31	5.1						
850	31	1,337	-9.4	-14.6	30	6.1	30	1,482	7.3	-4.4	26	9.8	31	1,488	6.5	-4.3	26	8.6	31	1,394	-3.1	-12.5	29	6.6	25	1,487	10.1	-6.8	24	2.0
800	31	1,806	-10.4	-16.1	31	6.4	30	1,981	5.8	-6.4	27	13.4	31	1,984	5.3	-8.8	26	11.0	31	1,873	-4.4	-15.9	28	9.2	31	1,978	11.0	-7.0	24	6.0
750	31	2,302	-11.2	-18.4	29	7.4	30	2,507	3.3	-8.4	26	16.0	31	2,509	3.2	-12.0	26	14.1	31	2,380	-6.1	-18.3	28	11.5	31	2,513	7.6	-9.7	25	8.9
700	31	2,830	-12.9	-21.7	28	9.4	30	3,064	1.0	-12.7	26	18.8	31	3,067	1.0	-16.9	26	16.3	31	2,918	-8.3	-21.3	27	13.9	31	3,078	4.5	-12.8	24	12.5
650	31	3,392	-15.6	-24.2	28	10.9	30	3,658	-1.7	-15.5	27	21.4	31	3,659	-2.0	-19.4	26	19.1	31	3,490	-11.3	-22.5	27	15.1	31	3,677	1.0	-16.8	24	14.3
600	31	3,992	-19.2	-27.9	28	12.9	30	4,290	-5.7	-18.7	27	24.0	31	4,290	-6.0	-22.0	27	21.1	31	4,101	-14.5	-26.1	27	16.9	31	4,315	-3.4	-20.7	25	14.8
550	31	4,635	-23.2	-32.8	28	14.9	30	4,966	-10.4	-22.2	26	26.0	31	4,966	-10.6	-25.0	27	24.4	31	4,755	-18.3	-29.7	27	19.4	31	4,997	-8.0	-25.5	25	16.2
500	31	5,326	-27.6	-37.7	27	16.4	30	5,693	-15.7	-27.8	26	27.5	31	5,692	-15.9	-27.6	27	27.6	31	5,460	-22.7	-34.5	27	21.8	31	5,730	-13.4	-30.1	25	18.3
450	31	6,076	-32.8	-42.1	27	18.3	30	6,480	-21.0	-32.5	27	31.0	31	6,477	-21.6	-33.0	27	29.3	31	6,225	-28.0	-38.8	27	23.6	31	6,523	-19.1	-33.8	25	20.0
400	31	6,896	-38.2	-43.3	27	20.7	30	7,339	-27.2	-38.4	27	34.6	31	7,334	-28.0	-39.2	27	31.6	31	7,061	-34.0	-42.0	27	25.6	31	7,388	-25.7	-39.2	25	22.5
350	31	7,807	-43.8	-48.7	27	22.0	29	8,293	-34.3	-43.6	27	35.3	30	8,283	-35.0	-43.4	27	35.0	31	7,985	-40.6	-43.5	27	28.2	31	8,345	-33.0	-44.9	26	24.8
300	30	8,817	-49.1		27	23.7	29	9,351	-42.7	-44.1	27	39.6	30	9,337	-43.1	-46.3	27	37.2	31	9,018	-46.9		27	31.7	31	9,407	-41.4	-45.9	26	28.3
250	30	10,007	-51.0		26	25.7	29	10,557	-51.7		27	45.7	30	10,543	-51.6		28	40.4	31	10,211	-52.4		27	32.9	31	10,620	-50.7		26	31.4
200	30	11,460	-50.8		27	24.2	28	11,978	-59.1		27	46.4	30	11,965	-58.1		28	40.1	31	11,643	-54.6		27	30.2	31	12,047	-58.2		26	35.5
175	30	12,331	-49.9		26	19.7	27	12,811	-60.3		28	44.8	30	12,802	-59.9		28	41.3	31	12,498	-54.5		27	27.5	31	12,885	-59.7		26	36.8
150	30	13,340	-50.2		26	17.8	27	13,771	-60.8		27	40.9	30	13,766	-60.3		27	37.6	31	13,487	-54.2		27	23.5	31	13,844	-61.8		26	33.1
125	30	14,528	-51.6		26	15.4	26	14,894	-63.5		27	37.0	30	14,896	-62.8		27	32.0	31	14,656	-54.7		27	20.9	31	14,965	-64.9		26	29.5
100	30	15,970	-53.3		26	13.1	26	16,255	-66.3		27	26.6	30	16,261	-65.6		27	24.4	31	16,078	-56.6		27	17.0	31	16,314	-68.0		26	23.4
80	30	17,403	-54.4		27	9.4	26	17,603	-67.5		27	18.0	30	17,614	-66.8		27	16.4	31	17,489	-58.0		27	13.0	31	17,653	-69.1		27	15.9
70	30	18,258	-55.0		27	7.8	25	18,412	-66.5		27	13.3	30	18,421	-66.5		27	12.3	31	18,330	-58.6		27	9.6	30	18,450	-69.1		27	10.4
60	30	19,243	-55.5		27	6.9	25	19,347	-65.5		29	6.3	30	19,357	-65.1		27	7.1	31	19,298	-59.0		27	6.4	30	19,378	-66.0		28	6.6
50	30	20,405	-55.4		29	3.7	25	20,461	-63.7		28	3.1	30	20,474	-62.7		28	5.4	30	20,441	-58.6		28	6.0	29	20,492	-63.6		29	5.5
40	30	21,826	-56.1		30	1.7	25	21,840	-60.9		29	3.4	30	21,857	-60.5		29	4.0	30	21,845	-58.2		30	3.1	28	21,873	-60.6		27	3.9
30	30	23,657	-55.9		05	1.8	25	23,642	-57.8		33	3.3	28	23,659	-58.4		28	3.3	28	23,658	-57.5		33	1.9	28	23,676	-58.0		27	3.8
25	27	24,819	-55.4		06	3.1	25	24,794	-56.9		32	2.7	28	24,812	-56.5		30	4.4	28	24,811	-56.8		36	2.1	28	24,828	-56.8		29	3.8
20	23	26,253	-55.0		07	5.8	24	26,209	-55.2		36	2.4	26	26,230	-54.3		28	2.0	26	26,220	-56.1		05	1.8	25	26,249	-54.7		28	4.1
15	19	28,079	-55.3		04	5.0	19	28,058	-51.8		26	3.0	22	28,089	-50.1		28	5.2	17	28,069	-53.9		04	2.6	16	28,123	-51.2		27	6.7
10	11	30,648	-54.5		01	3.4	12	30,734	-44.7				9	30,757	-45.3				10	30,757	-48.3									
7	6	32,868	-53.6																											

Standard pressure surface (mb)	* COLD BAY, AK 1005 MB						DAYTON, OH 979 MB						DEL RIO, TX 976 MB						DENVER, CO 831 MB						DODGE CITY, KS 921 MB					
SFC	30	30	-3.3	-5.6	13	1.2	31	299	.2	-2.6	25	.5	31	314	12.3	7.2	09	1.1	31	1,611	-1.4	-8.5	26	1.2	31	791	-.3	-4.6	22	.4
1000	22	109	-4.8	-8.5	35	.7																								
950	30	472	-5.9	-8.2	18	2.5	31	539	.1	-3.9	24	2.3	31	540	13.5	5.6	13	1.9												
900	30	893	-8.5	-12.1	20	3.3	31	972	-1.3	-5.2	25	5.1	31	995	13.1	3.2	19	2.9							31	972	.9	-5.3	30	.6
850	30	1,334	-10.9	-17.3	21	4.2	31	1,426	-2.5	-8.7	27	8.0	31	1,475	12.0	-2.2	22	4.3							31	1,433	2.6	-9.1	28	4.3
800	30	1,799	-13.2	-20.5	22	5.0	31	1,907	-3.4	-11.6	27	10.1	31	1,982	11.0	-5.5	24	6.5	31	1,913	-.4	-10.8	28	2.8	31	1,923	1.8	-9.7	27	7.8
750	30	2,288	-15.4	-25.0	22	6.6	31	2,416	-5.0	-13.1	27	11.1	31	2,518	8.9	-9.9	26	8.8	31	2,427	-2.2	-13.3	29	4.2	31	2,441	-.4	-11.1	27	10.8
700	30	2,807	-18.0	-28.5	23	8.1	31	2,956	-7.7	-15.5	27	13.3	31	3,086	5.6	-15.2	26	11.3	31	2,972	-5.5	-16.5	29	5.6	31	2,990	-3.6	-15.0	27	12.7
650	30	3,358	-20.8	-30.7	23	9.9	31	3,530	-10.5	-20.2	27	15.0	31	3,687	1.7	-17.8	26	13.7	31	3,550	-9.3	-18.6	29	8.2	31	3,572	-7.0	-19.5	26	13.6
600	30	3,946	-23.9	-33.4	23	10.4	31	4,142	-14.0	-24.9	27	17.5	31	4,327	-2.9	-21.4	25	16.2	31	4,164	-13.0	-22.3	28	10.1	31	4,192	-10.9	-23.1	26	14.5
550	30	4,576	-27.6	-36.0	23	12.0	31	4,798	-17.4	-29.1	27	20.1	31	5,010	-7.9	-25.3	25	18.1	31	4,823	-17.0	-27.5	28	11.3	31	4,855	-15.3	-27.8	26	16.0
500	30	5,256	-31.8	-38.2	24	13.1	31	5,506	-21.8	-33.3	27	23.7	31	5,742	-13.6	-29.4	25	20.5	31	5,530	-22.5	-32.1	28	12.7	31	5,568	-20.4	-32.5	26	18.3
450	30	5,993	-37.1	-40.0	24	15.0	31	6,274	-27.3	-37.6	27	25.9	31	6,535	-19.2	-33.1	25	22.9	31	6,296	-28.0	-37.5	27	13.7	31	6,339	-26.3	-37.0	26	20.3
400	30	6,798	-42.5	-44.2	25	17.5	31	7,112	-33.3	-43.0	27	28.0	31	7,400	-25.4	-38.4	26	26.7	31	7,130	-34.7	-42.6	27	14.7	31	7,180	-32.7	-43.0	26	23.3
350	30	7,692	-47.6		24	19.6	31	8,040	-40.0	-45.3	27	30.9	31	8,358	-32.7	-44.2	26	30.0	31	8,051	-41.8	-44.2	27	16.6	31	8,110	-39.4	-45.5	26	26.9
300	30	8,702	-50.0		24	19.2	31	9,073	-47.2		27	33.7	31	9,421	-41.3	-46.3	26	33.0	31	9,078	-48.6		27	20.6	31	9,146	-46.5		26	32.0
250	30	9,891	-50.4		24	20.4	31	10,263	-53.1		26	37.1	31	10,635	-50.6		26	37.2	31	10,260	-54.5		27	25.9	31	10,335	-54.4		26	35.8
200	29	11,351	-48.4		24	17.0	31	11,688	-56.2		27	36.8	31	12,062	-58.2		26	42.2	31	11,682	-55.6		26	25.6	30	11,754	-56.5		26	36.3
175	29	12,232	-47.3		24	16.5	31	12,537	-55.6		27	33.6	31	12,900	-59.9		26	42.3	31	12,535	-54.7		27	23.1	30	12,603	-55.8		26	31.6
150	29	13,252	-47.4		24	13.2	31	13,523	-54.5		27	29.9	31	13,859	-61.7		26	38.5	31	13,522	-54.6		27	20.6	30	13,584	-56.1		26	28.0
125	29	14,456	-48.1		24	12.3	30	14,683	-55.7		27	25.5	31	14,979	-65.1		26	33.7	31	14,688	-55.5		27	18.2	30	14,739	-57.7		26	23.9
100	27	15,921	-48.6		24	10.2	29	16,098	-57.8		27	19.6	31	16,326	-68.7		26	25.9	30	16,097	-58.1		26	12.4	30	16,143	-59.5		27	17.2
80	27	17,384	-49.9		23	8.0	28	17,491	-59.6		27	14.2	30	17,656	-70.6		26	17.7	30	17,499	-59.3		27	8.9	29	17,534	-60.5		27	11.2
70	27	18,257	-50.3		22	6.1	28	18,325	-60.1		27	10.9	30	18,449	-69.4		26	12.0	30	18,335	-59.6		26	6.3	29	18,364	-61.4		26	7.2
60	27	19,262	-50.9		21	4.9	27	19,287	-59.7		28	7.9	29	19,376	-67.4		27	7.4	29	19,300	-60.1		27	4.9	29	19,318	-61.8		27	5.6
50	26	20,448	-51.7		18	3.9	26	20,428	-59.5		30	4.0	29	20,484	-63.8		28	4.8	29	20,438	-60.2		28	1.9	29	20,449	-60.9		30	2.7
40	26	21,897	-51.3		16	4.4	26	21,826	-59.1		32	3.0	28	21,861	-61.0		27	3.7	29	21,834	-59.1		02	1.1	29	21,838	-60.4		32	1.5
30	25	23,775	-51.0		12	5.7	23	23,637	-58.1		04	3.4	28	23,662	-58.4		28	4.7	28	23,642	-57.9		05	2.9	27	23,639	-58.5		06	2.6
25	25	24,963	-50.6		11	6.9	22	24,787	-57.1		05	4.6	25	24,818	-56.6		29	4.2	24	24,790	-57.5		06	4.4	25	24,782	-57.5		05	3.3
20	21	26,404	-50.4		10	9.2	22	26,203	-55.9		05	5.3	25	26,238	-55.0		29	4.3	24	26,203	-56.5		06	6.0	23	26,196	-56.2		05	3.6
15	18	28,283	-49.5		09	11.6	22	28,042	-53.9		05	3.1	24	28,094	-51.2		28	5.5	12	28,048	-54.2				22	28,030	-54.1		05	1.6
10	9	30,939	-47.5				6	30,670	-49.4				10	30,787	-43.9										10	30,665	-47.6			
7																														

Standard pressure surface (mb)	EL PASO, TX 879 MB						ELY, NV 803 MB						EMPALME, MEXICO 1012 MB						* FAIRBANKS, AK 996 MB						FLINT, MI 986 MB					
SFC	31	1,193	7.0	-6.5	27	2.4	31	1,908	-3.1	-6.4	19	1.5	31	12	13.5	3.5	32	1.4	31	135	-14.6	-21.2	02	.7	31	236	-3.0	-6.2	25	.4
1000													31	115	17.1	3.2	32	2.1	11	183	-10.3	-13.8	07	1.7						
950													31	553	17.2	-.7	33	3.4	31	499	-8.8	-15.4	10	3.4	31	528	-4.0	-8.3	29	.9
900													31	1,012	15.1	-2.9	30	2.7	31	916	-10.1	-16.7	13	4.3	31	954	-4.8	-10.9	27	2.5
850	31	1,468	9.7	-8.3	28	4.5							31	1,493	12.4	-5.9	25	3.3	31	1,357	-10.7	-18.6	14	3.6	31	1,403	-6.3	-13.1	28	4.5
800	31	1,968	6.5	-10.2	27	7.9	22	1,971	-2.0	-7.1	18	1.4	31	1,999	9.9	-9.4	24	4.5	31	1,821	-12.5	-20.0	16	4.1	31	1,876	-7.5	-14.2	27	6.1
750	31	2,494	3.0	-12.4	26	11.0	31	2,454	-3.8	-9.7	23	2.0	31	2,532	6.9	-12.7	25	6.9	31	2,312	-14.8	-22.7	17	4.6	31	2,378	-8.9	-16.6	27	7.8
700	31	3,049	-.2	-15.8	25	14.1	31	2,995	-7.4	-12.8	27	4.5	31	3,096	3.9	-15.3	25	8.8	31	2,831	-17.9	-25.7	17	4.0	31	2,910	-11.0	-18.2	27	10.6
650	31	3,639	-3.8	-18.7	25	16.1	31	3,568	-10.9	-16.5	27	6.9	31	3,694	.4	-18.1	26	11.4	31	3,382	-21.3	-28.8	17	3.5	31	3,477	-13.5	-21.2	28	12.3
600	31	4,265	-7.8	-23.5	26	18.8	30	4,184	-14.1	-22.9	28	8.8	31	4,331	-3.6	-22.1	26	13.6	31	3,968	-25.2	-32.8	17	3.0	31	4,083	-16.6	-25.4	27	14.7
550	31	4,936	-12.2	-27.7	26	21.0	30	4,839	-18.3	-26.8	28	10.4	31	5,012	-8.0	-25.9	26	17.2	31	4,595	-29.2	-37.7	17	3.0	31	4,732	-20.4	-30.0	27	16.3
500	31	5,658	-17.3	-32.4	26	22.7	30	5,545	-22.7	-31.9	28	12.2	31	5,746	-13.3	-29.6	26	18.5	31	5,269	-33.8	-42.1	17	3.7	31	5,431	-24.9	-34.5	27	18.8
450	31	6,439	-22.8	-36.2	25	25.3	29	6,307	-28.1	-36.4	29	13.7	31	6,540	-18.7	-33.2	26	22.2	31	6,000	-39.1	-45.0	18	4.1	31	6,189	-30.1	-39.1	27	21.2
400	31	7,291	-29.0	-42.1	26	29.0	29	7,142	-34.4	-42.1	29	14.9	31	7,406	-25.4	-38.6	26	23.6	31	6,798	-44.7	-50.5	20	4.3	31	7,018	-35.8	-43.2	27	24.6
350	31	8,236	-35.8	-48.1	26	32.5	29	8,064	-41.6	-45.7	29	16.0	31	8,364	-32.6	-45.3	26	27.2	31	7,683	-49.9		20	5.3	31	7,937	-41.9	-45.7	27	28.8
300	31	9,288	-43.4		26	36.3	29	9,090	-48.9		29	20.1	31	9,427	-41.4	-46.3	26	31.2	30	8,676	-53.4		22	5.4	31	8,963	-46.4		27	29.7
250	31	10,492	-52.0		26	39.0	29	10,271	-54.7		29	20.6	31	10,640	-50.6		26	35.1	30	9,853	-51.3		22	5.7	31	10,150	-53.5		26	32.4
200	31	11,913	-58.0		26	39.5	29	11,687	-56.8		28	21.9	31	12,068	-57.7		26	39.5	30	11,316	-47.3		23	7.4	31	11,583	-54.0		27	31.0
175	31	12,752	-58.8		26	39.0	29	12,537	-54.7		28	19.3	31	12,909	-58.8		26	37.2	30	12,202	-46.3		23	7.4	31	12,441	-53.2		27	27.9
150	31	13,720	-59.2		26	35.1	29	13,524	-54.7		28	18.0	31	13,875	-60.3		26	36.4	30	13,228	-45.8		24	7.9	31	13,438	-52.1		27	22.5
125	31	14,856	-61.6		26	30.9	28	14,687	-55.6		28	15.7	30	15,007	-63.8		26	30.1	30	14,441	-46.3		23	6.7	31	14,616	-53.6		27	19.4
100	31	16,228	-64.7		26	22.6	28	16,100	-58.2		28	11.6	28	16,361	-67.1		26	22.4	30	15,922	-46.9		24	6.1	31	16,044	-55.1		27	16.7
80	31	17,584	-66.9		26	14.8	27	17,502	-59.7		27	7.6	27	17,700	-69.7		26	15.9	29	17,405	-47.6		24	6.7	30	17,460	-56.5		27	12.1
70	30	18,389	-66.7		26	11.8	25	18,327	-59.7		28	6.4	27	18,499	-68.4		27	11.4	29	18,287	-47.8		24	5.7	29	18,309	-57.0		28	9.1
60	30	19,326	-64.9		27	6.6	25	19,290	-60.1		29	[illegible]	26	19,432	-66.3		27	7.6	29	19,305	-47.8		24	5.0	29	19,284	-57.4		28	5.7
50	29	20,443	-63.1		28	4.1	22	20,430	-59.7		32	1.7	25	20,543	-63.8		28	5.7	29	20,509	-47.9		24	4.1	29	20,435	-57.8		30	3.7
40	28	21,825	-60.9		33	1.8	21	21,826	-58.7		03	1.1	25	21,923	-60.6		29	3.6	28	21,987	-47.3		25	3.2	29	21,845	-57.3		34	2.1
30	27	23,623	-58.9		29	1.8	19	23,638	[illegible]		06	2.6	21	23,733	-57.9		28	3.0	26	23,891	-46.8		26	1.3	27	23,665	-56.4		06	4.0
25	26	24,775	-57.5		30	1.9	15	24,795	-56.7		07	3.7	19	24,889	-56.4		30	3.3	24	25,093	-47.0		26	.5	26	24,819	-56.2		06	4.5
20	25	26,192	-55.7		30	2.7	13	26,225	-54.2		07	4.8	14	26,327	-54.3		28	3.5	22	26,571	-47.3		09	1.3	24	26,247	-55.2		06	5.6
15	20	28,039	-52.5		28	3.4	6	28,071	-52.7				9	28,166	-51.6				16	28,462	-46.8		09	4.0	22	28,086	-54.0		05	5.8
10	5	30,720	-45.7																						15	30,690	-52.2		01	4.7

RAWINSONDE DATA

Average monthly values

GLASGOW, MT
931 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	696	-7.5	-10.5	07	2.3
1000						
950						
900	31	963	-6.8	-10.3	04	1.0
850	31	1,409	-7.3	-11.8	31	3.4
800	31	1,881	-8.6	-14.0	30	6.3
750	31	2,379	-10.7	-15.5	31	7.9
700	31	2,908	-13.1	-17.9	31	8.6
650	31	3,470	-15.6	-21.7	30	9.0
600	31	4,071	-18.8	-25.6	29	10.7
550	31	4,714	-23.0	-30.3	29	12.1
500	31	5,406	-27.6	-34.9	28	13.7
450	31	6,156	-32.9	-39.6	28	14.8
400	31	6,974	-39.0	-43.6	28	17.1
350	31	7,881	-45.4		28	20.4
300	31	8,890	-52.4		27	20.3
250	31	10,159	-55.1		28	20.7
200	31	11,495	-51.5		28	15.7
175	30	12,364	-50.5		29	14.0
150	30	13,371	-50.5		28	13.3
125	30	14,558	-51.5		29	11.1
100	30	16,003	-53.0		29	8.3
80	29	17,439	-54.4		29	6.8
70	27	18,294	-54.4		30	4.8
60	26	19,283	-54.9		31	3.0
50	26	20,449	-55.1		36	2.5
40	24	21,870	-54.8		04	3.3
30	24	23,711	-54.6		07	5.9
25	23	24,875	-54.5		07	7.4
20	22	26,306	-53.8		07	9.5
15	22	28,156	-53.6		07	11.0
10	9	30,825	-50.1			
7						

GRAND JUNCTION, CO
847 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	1,472	1.1	-5.0	11	1.4
1000						
950						
900						
850	12	1,507	.7	-8.9	13	2.5
800	31	1,933	1.2	-8.5	18	2.3
750	31	2,448	-2.7	-10.7	25	3.5
700	31	2,992	-6.7	-12.4	26	5.8
650	31	3,567	-10.4	-16.0	27	7.2
600	31	4,179	-14.2	[illegible]	27	9.3
550	31	4,834	-18.1	-26.2	27	11.5
500	31	5,539	-23.0	-30.8	27	12.8
450	31	6,303	-28.6	-35.7	27	13.8
400	31	7,135	-35.2	-41.9	27	15.9
350	31	8,055	-42.2	-46.3	27	18.8
300	30	9,082	-49.0		27	22.5
250	30	10,264	-54.3		27	26.3
200	30	11,689	-55.2		27	25.5
175	30	12,543	-54.0		27	23.6
150	30	13,533	-54.0		27	20.2
125	30	14,699	-55.9		27	17.6
100	30	16,109	-58.4		27	14.1
80	29	17,506	-59.7		27	9.8
70	27	18,341	-60.0		27	7.3
60	27	19,302	-60.6		27	5.1
50	26	20,436	-60.1		28	2.5
40	23	21,835	-59.0		02	1.5
30	19	23,649	-57.7		06	3.6
25	18	24,804	-57.2		07	4.6
20	14	26,215	-55.8		06	4.6
15	8	28,062	-53.7			
10						
7						

• **GREAT FALLS, MT**
884 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	1,118	-4.9	-8.0	23	3.0
1000						
950						
900						
850	31	1,422	-4.2	-10.4	25	4.9
800	31	1,899	-6.8	-12.5	27	6.2
750	31	2,400	-9.2	-14.5	29	7.2
700	31	2,931	-12.7	-18.7	30	8.6
650	31	3,493	-15.8	-22.0	29	10.5
600	31	4,092	-19.6	-26.6	29	11.0
550	31	4,733	-23.7	-31.5	28	12.2
500	31	5,424	-28.0	-35.9	28	13.5
450	31	6,173	-33.0	-40.6	28	16.1
400	31	6,991	-38.9	-45.0	28	17.9
350	30	7,901	-45.2		28	20.2
300	30	8,911	-52.1		28	21.2
250	30	10,081	-55.2		28	[illegible]
200	30	11,512	-52.1		28	17.0
175	30	12,380	-50.8		28	13.7
150	29	13,379	-50.7		28	11.9
125	29	14,564	-52.0		28	10.4
100	29	16,003	-53.6		28	7.9
80	29	17,436	-54.6		28	5.4
70	28	18,289	-55.1		29	4.1
60	28	19,273	-55.4		31	2.2
50	28	20,436	-55.6		01	1.4
40	27	21,861	-55.5		04	3.5
30	25	23,698	-55.0		06	6.5
25	25	24,863	-55.0		07	7.9
20	21	26,289	-54.2		07	10.5
15	14	28,143	-53.4		07	12.7
10						
7						

GREEN BAY, WI
989 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	210	-6.9	-9.3	33	.9
1000						
950	31	524	-5.5	-8.8	36	1.4
900	31	947	-7.1	-11.3	35	1.5
850	31	1,392	-7.9	-13.0	30	2.9
800	31	1,862	-8.9	-14.9	29	5.4
750	31	2,362	-10.2	-18.3	29	[illegible]
700	31	2,891	-12.1	-22.1	28	8.7
650	31	3,456	-14.8	-24.8	28	10.6
600	31	4,058	-17.8	-27.8	28	13.1
550	31	4,704	-21.9	-32.9	28	14.5
500	31	5,400	-26.9	-37.0	28	16.3
450	31	6,153	-31.6	-41.4	28	18.7
400	31	6,977	-37.3	-46.0	27	21.3
350	31	7,890	-43.3		27	24.8
300	31	8,910	-49.6		27	29.3
250	31	10,090	-54.3		27	29.7
200	30	11,521	-52.3		27	26.9
175	30	12,387	-51.7		27	23.1
150	30	13,388	-51.4		28	21.5
125	30	14,569	-52.9		28	17.3
100	30	16,006	-54.1		27	15.4
80	30	17,431	-55.8		28	11.1
70	30	18,280	-56.5		28	8.7
60	30	19,258	-56.6		28	6.3
50	29	20,415	-56.6		31	[illegible]
40	29	21,831	-56.2		36	2.1
30	28	23,661	-55.6		06	4.7
25	28	24,824	-55.2		07	5.4
20	26	26,253	-54.6		06	[illegible]
15	25	28,100	-53.4		06	7.9
10	18	30,740	-49.6		06	5.8
7						

GREENSBORO, NC
983 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	[illegible]	275	4.1	.5	[illegible]	1.3
1000						
950	30	554	[illegible]	-3.3	28	4.1
900	30	994	3.1	-5.5	28	7.0
850	30	1,457	[illegible]	-8.8	[illegible]	8.4
800	30	1,946	[illegible]	-10.4	28	11.0
750	30	2,465	-.5	-13.9	[illegible]	13.1
700	30	[illegible]	[illegible]	-19.2	27	16.0
650	30	3,598	-5.9	-21.6	[illegible]	18.2
600	30	4,221	[illegible]	-24.5	[illegible]	20.5
550	30	4,887	-14.1	-27.1	27	23.9
500	30	5,604	-18.8	-31.1	27	26.5
450	30	6,381	-24.2	-34.6	27	29.9
400	30	7,230	-30.3	-39.0	27	32.8
350	30	8,169	[illegible]	-43.9	[illegible]	34.4
300	30	[illegible]	-44.6	-47.4	[illegible]	35.6
250	30	10,415	-52.1		[illegible]	37.0
200	30	11,842	[illegible]		[illegible]	41.1
175	30	12,688	-56.9		[illegible]	38.9
150	29	13,666	-57.1		[illegible]	34.2
125	29	14,815	[illegible]		[illegible]	27.7
100	29	16,206	-60.9		[illegible]	21.3
80	29	17,586	[illegible]		[illegible]	17.0
70	29	18,410	-63.1		[illegible]	12.5
60	28	19,363	[illegible]		[illegible]	7.9
50	28	20,492	[illegible]		[illegible]	4.9
40	28	21,881	-59.9		[illegible]	2.5
30	27	23,685	-58.3		[illegible]	1.9
25	26	[illegible]	-57.1		[illegible]	2.4
20	23	26,253	-54.9		[illegible]	2.3
15	18	[illegible]	-51.7		[illegible]	2.3
10	[illegible]	30,764	-45.8		[illegible]	6.7
7	5	33,197	-39.3			

GUADALUPE IS., MEXICO
1014 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	27	23	13.7	9.2	31	4.9
1000	27	143	13.0	8.1	32	7.0
950	27	573	11.0	3.2	32	7.0
900	27	1,023	9.6	-2.3	31	5.9
850	27	1,495	8.1	-7.4	30	5.2
800	27	1,995	7.0	-11.4	30	5.7
750	27	2,524	5.6	-15.5	29	7.3
700	27	3,085	3.0	-17.9	28	8.5
650	27	3,682	-.1	-20.6	28	11.0
600	27	4,317	-4.0	-23.2	27	12.4
550	27	4,998	-8.7	-27.3	27	14.3
500	27	5,728	-14.1	-31.6	27	16.1
450	27	6,519	-19.8	-36.6	27	19.0
400	27	7,382	-26.8	-41.5	27	20.1
350	27	8,333	-34.1	-45.8	26	23.9
300	27	9,391	-42.6		27	25.2
250	27	10,597	-51.8		27	30.3
200	27	12,022	-57.8		26	32.7
175	27	12,862	-58.9		26	33.7
150	27	13,826	-60.4		26	29.3
125	27	14,955	-63.1		26	24.4
100	26	16,318	-66.5		26	19.2
80	26	17,665	-67.1		26	12.1
70	26	18,473	-66.2		26	8.7
60	25	19,408	-65.5		27	7.3
50	24	20,522	-63.4		28	5.8
40	23	21,900	-60.9		28	4.2
30	23	[illegible]	-57.6		27	2.2
25	21	24,857	-56.4		26	2.9
20	18	26,287	-53.9		25	4.9
15	7	28,152	-50.1			
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• **GUAM, MARIANA IS.**
999 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	111	23.8	21.4	08	3.1
1000	10	115	24.1	21.5	08	3.1
950	31	554	21.9	19.1	08	7.9
900	31	1,023	19.3	14.8	08	8.2
850	31	1,514	16.7	9.7	08	7.4
800	31	2,030	15.1	3.2	08	6.2
750	31	2,574	13.0	-2.0	08	5.1
700	31	3,152	10.5	-8.2	07	4.6
650	31	3,766	7.6	-13.0	06	3.0
600	31	4,420	3.7	-15.8	06	2.5
550	31	5,121	-.2	-19.6	05	2.0
500	31	5,877	-4.9	-23.1	05	1.6
450	30	6,698	-9.6	-28.8	35	1.1
400	30	7,598	-15.3	-33.0	31	2.1
350	30	8,596	-22.3	-39.2	[illegible]	3.5
300	30	9,706	-30.9	-45.7	29	3.9
250	30	10,973	-41.0	-52.6	[illegible]	4.8
200	30	12,450	-53.3		24	6.4
175	30	13,297	-60.1		24	5.8
150	30	14,241	-67.8		23	4.9
125	29	15,314	-76.3		21	3.5
100	29	16,573	-84.2		16	3.7
80	26	17,807	-82.4		[illegible]	2.3
70	25	18,564	-76.4		08	2.4
60	24	19,464	-71.2		09	4.2
50	24	20,555	-66.2		11	8.6
40	24	21,921	[illegible]		[illegible]	11.7
30	24	23,723	-57.5		[illegible]	11.1
25	24	24,882	-54.4		09	7.2
20	23	26,328	-49.9		31	1.0
15	20	28,226	-46.4		28	8.2
10	12	30,944	-43.7		29	9.3
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HILO, HI
1019 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	10	19.2	16.6	25	1.3
1000	31	169	19.3	15.7	20	.4
950	31	[illegible]	[illegible]	13.9	10	3.5
900	31	1,068	[illegible]	11.3	11	4.7
850	31	1,546	[illegible]	8.8	11	3.7
800	31	2,049	7.9	2.3	10	3.3
750	31	2,581	7.6	-9.6	10	4.0
700	31	3,148	[illegible]	-12.6	11	2.4
650	31	3,751	[illegible]	-16.6	12	1.8
600	31	4,394	[illegible]	-20.2	12	1.0
550	31	5,082	-5.7	-25.1	20	.5
500	31	5,821	-11.3	-29.1	25	2.5
450	31	6,620	-16.9	-32.8	26	5.5
400	31	7,493	[illegible]	-38.2	27	8.0
350	31	8,458	-30.5	-44.2	26	12.3
300	31	9,534	-38.4	-49.4	26	19.0
250	31	10,763	-47.5		27	25.1
200	31	12,208	-56.0		27	28.6
175	31	13,049	-59.9		27	26.3
150	30	14,005	-64.0		27	21.1
125	30	15,108	-69.3		27	16.7
100	29	16,427	-73.3		27	9.9
80	25	17,732	-73.7		26	4.7
70	24	18,513	-71.6		26	2.1
60	24	19,428	-68.9		13	.9
50	24	20,530	-65.1		09	1.5
40	21	21,902	-61.3		09	1.5
30	20	23,703	-58.3		06	1.2
25	20	24,854	-56.8		03	1.3
20	19	26,280	-53.5		31	1.8
15	18	28,151	-49.3		27	4.9
10	9	30,855	-43.5			
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HUNTINGTON, WV
985 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	246	3.0	-.8	25	.8
1000						
950	31	539	2.6	-1.2	24	3.2
900	31	976	1.3	-3.1	25	6.8
850	31	1,435	-.2	-5.9	26	[illegible]
800	31	1,920	-2.0	-9.3	26	11.9
750	31	2,432	-4.0	-13.0	27	13.1
700	31	2,974	-6.4	-15.4	27	14.9
650	30	3,550	-9.0	-18.9	27	17.4
600	30	4,166	-12.3	-23.7	27	20.1
550	30	4,826	-16.2	-27.3	27	23.1
500	30	5,537	-20.8	[illegible]	27	25.1
450	30	6,308	-26.0	-35.6	27	25.7
400	30	7,150	-32.1	-39.6	27	27.6
350	30	8,082	-38.9	-43.2	27	31.5
300	30	9,122	-45.5		27	33.6
250	29	10,325	-52.5		27	37.1
200	29	11,753	-56.3		27	[illegible]
175	29	12,601	-56.1		27	[illegible]
150	29	13,584	-55.3		28	[illegible]
125	28	14,751	-57.3		27	[illegible]
100	28	16,156	-59.3		27	[illegible]
80	24	17,544	-60.5		27	[illegible]
70	23	18,376	-61.5		27	11.2
60	21	19,332	-60.5		28	[illegible]
50	20	20,473	-60.0		29	[illegible]
40	18	21,868	-59.0		32	2.6
30	17	23,679	-57.5		04	2.6
25	15	24,830	-56.5		04	3.1
20	13	26,249	-54.8		02	3.3
15	9	28,101	-52.3			
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• **INTERNATIONAL FALLS, MN**
972 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	359	[illegible]	-18.8	[illegible]	[illegible]
1000						
950	31	532	-10.4	-13.9	32	.5
900	31	948	-11.0	-15.0	25	1.5
850	31	1,387	-11.0	-18.5	27	[illegible]
800	31	1,852	-12.2	-20.8	28	3.7
750	31	2,344	-13.9	-22.6	28	4.9
700	31	2,866	-16.1	-26.0	28	6.4
650	31	3,422	-18.4	-28.9	28	8.1
600	31	4,015	-21.4	-32.3	28	9.9
550	31	4,652	-25.1	-34.6	28	11.9
500	31	5,339	-29.6	-37.4	28	14.0
450	31	6,083	-34.6	-41.2	28	16.0
400	31	6,896	[illegible]	-44.3	[illegible]	18.2
350	31	7,798	-46.3		[illegible]	19.4
300	31	8,806	-52.0		[illegible]	20.6
250	31	9,980	-54.1		[illegible]	20.5
200	31	11,424	[illegible]		[illegible]	17.6
175	31	12,297	[illegible]		[illegible]	15.6
150	31	13,305	-49.8		[illegible]	14.3
125	31	14,494	-51.2		[illegible]	12.8
100	31	15,939	[illegible]		[illegible]	10.4
80	29	17,368	-53.6		[illegible]	8.2
70	29	18,226	-53.9		[illegible]	7.1
60	29	19,215	-54.4		[illegible]	5.1
50	29	20,383	-54.6		[illegible]	[illegible]
40	29	21,811	[illegible]		[illegible]	3.0
30	29	23,651	-54.7		[illegible]	[illegible]
25	29	24,819	-54.4		[illegible]	[illegible]
20	28	26,251	-54.6		[illegible]	7.9
15	28	28,097	-53.8		[illegible]	[illegible]
10	27	30,712	-51.8		[illegible]	[illegible]
7	21	[illegible]	-51.3		[illegible]	[illegible]
5	[illegible]	[illegible]	-51.9			

JACKSON, MS
1004 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	[illegible]	9.5	6.6	13	1.2
1000	23	151	7.1	3.8	12	1.5
950	31	556	9.8	3.4	20	2.6
900	31	1,005	9.2	.3	23	5.9
850	31	1,479	8.4	-.7	25	9.5
800	31	1,979	7.3	-4.5	26	11.7
750	31	2,509	5.0	-8.5	26	14.7
700	31	3,068	1.9	-12.8	26	17.2
650	31	3,663	-1.5	-16.1	27	20.5
600	31	4,296	-5.2	-19.3	26	23.1
550	31	4,973	-9.7	-24.2	26	25.0
500	31	5,701	-14.9	-27.8	26	27.0
450	31	6,490	-20.5	-32.2	26	28.9
400	31	7,350	-27.0	-37.7	26	31.3
350	30	8,301	-34.1	-44.2	27	34.1
300	30	9,359	-42.3	-46.9	27	38.1
250	30	10,567	-51.6		27	44.1
200	30	11,988	-58.9		27	46.0
175	30	12,823	-59.9		27	44.6
150	29	13,787	-60.9		27	40.0
125	29	14,913	-63.8		27	34.9
100	29	16,269	-67.3		27	27.2
80	25	17,611	-67.9		27	18.6
70	24	18,412	-68.1		27	14.2
60	23	19,346	-65.7		27	9.2
50	23	[illegible]	-63.6		28	4.1
40	23	21,838	-61.3		29	2.9
30	22	23,636	-58.4		30	[illegible]
25	21	24,784	-57.2		30	3.3
20	21	26,200	-55.5		31	3.8
15	21	28,049	-52.2		28	3.9
10	17	30,705	-45.7		26	10.7
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JOHN F. KENNEDY INT. AP NY
1014 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	5	1.8	-6.9	33	2.6
1000	28	132	.8	-8.4	34	[illegible]
950	31	528	-.8	-8.9	33	3.4
900	31	959	-2.2	-10.2	[illegible]	4.5
850	31	1,412	-2.5	-11.8	31	[illegible]
800	31	1,893	-3.7	-12.9	[illegible]	7.6
750	30	2,398	-5.6	-15.6	29	[illegible]
700	30	2,937	-8.0	-18.2	28	[illegible]
650	30	3,511	-10.7	-20.6	28	[illegible]
600	30	4,122	-14.0	-22.8	28	17.3
550	30	4,778	-17.9	-27.2	28	18.9
500	30	5,485	-22.3	-30.9	[illegible]	[illegible]
450	30	6,251	-27.6	-35.5	[illegible]	22.6
400	30	7,087	-33.8	-40.4	28	25.0
350	30	8,013	-40.4	-43.8	28	27.2
300	30	9,045	-46.9		[illegible]	30.2
250	30	10,237	-52.5		[illegible]	34.6
200	27	11,679	-55.4		[illegible]	36.3
175	27	12,531	-54.9		28	33.0
150	27	13,521	-54.2		28	26.2
125	27	14,688	-55.2		[illegible]	22.9
100	27	16,106	-57.0		[illegible]	17.5
80	26	[illegible]	-58.2		[illegible]	14.2
70	26	[illegible]	-58.4		[illegible]	11.1
60	24	[illegible]	-58.8		[illegible]	[illegible]
50	24	[illegible]	-58.9		[illegible]	5.5
40	23	21,865	-58.7		[illegible]	2.9
30	22	23,680	-56.9		[illegible]	[illegible]
25	21	24,831	-56.3		[illegible]	[illegible]
20	21	26,251	-55.1		[illegible]	[illegible]
15	20	28,096	-53.3		[illegible]	[illegible]
10	7	30,755	-47.8			
7						

JOHNSTON IS., PACIFIC AREA
1015 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	3	[illegible]	19.7	09	7.4
1000	31	135	22.7	18.3	09	8.3
950	31	580	18.9	16.7	08	9.3
900	31	1,043	15.8	12.8	09	9.0
850	31	1,527	13.2	8.1	09	7.8
800	31	2,036	[illegible]	1.4	08	6.2
750	31	2,574	[illegible]	-7.0	08	4.1
700	31	3,144	7.1	-9.7	08	2.8
650	31	3,750	[illegible]	-13.4	08	1.8
600	31	4,395	-.3	-17.4	36	.7
550	31	5,086	-4.4	-21.8	30	2.7
500	31	5,829	-9.4	-26.9	30	4.4
450	31	6,635	-15.1	-30.6	29	5.8
400	31	7,514	[illegible]	-35.2	28	9.5
350	31	8,489	-28.3	-41.3	28	11.7
300	31	9,573	-36.4	-48.2	28	15.5
250	31	10,815	-44.5		28	21.4
200	31	12,280	-53.8		28	24.8
175	31	13,178	-58.9		29	25.3
150	31	14,083	-64.5		29	22.9
125	31	15,180	[illegible]		29	17.9
100	31	16,483	[illegible]		30	11.3
80	31	17,767	[illegible]		29	3.9
70	29	18,543	[illegible]		30	1.0
60	29	19,454	[illegible]		09	[illegible]
50	29	20,555	-64.5		10	[illegible]
40	24	21,934	[illegible]		[illegible]	[illegible]
30	24	23,732	-58.2		[illegible]	[illegible]
25	27	24,886	-55.5		08	[illegible]
20	24	26,372	[illegible]		[illegible]	[illegible]
15	24	28,212	[illegible]		28	[illegible]
10	[illegible]	30,917	-43.3		26	[illegible]
7	7	33,319	[illegible]			

KEY WEST, FL
1016 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	3	22.7	18.6	14	2.3
1000	31	141	21.9	17.3	12	2.8
950	31	585	18.6	14.2	15	3.4
900	31	1,048	16.2	7.8	18	3.1
850	31	1,532	13.8	3.1	[illegible]	[illegible]
800	31	2,041	11.1	-2.6	22	[illegible]
750	31	2,578	9.9	-8.9	23	2.4
700	31	3,148	7.5	-12.9	25	[illegible]
650	31	3,755	4.3	-16.3	[illegible]	[illegible]
600	31	4,401	.3	-19.9	[illegible]	7.6
550	31	5,093	-4.3	-23.4	[illegible]	9.8
500	31	5,836	-9.6	-28.3	[illegible]	[illegible]
450	31	6,641	-15.6	-32.9	[illegible]	[illegible]
400	31	7,516	-22.4	-38.4	28	[illegible]
350	[illegible]	8,485	-30.0	-43.4	28	[illegible]
300	[illegible]	9,563	[illegible]	[illegible]	28	[illegible]
250	[illegible]	10,791	-47.9		28	25.8
200	[illegible]	12,230	-57.6		28	32.4
175	[illegible]	13,066	-61.0		28	33.8
150	[illegible]	14,019	-64.0		29	32.0
125	[illegible]	15,121	-67.9		28	25.1
100	[illegible]	16,448	-72.6		[illegible]	17.6
80	[illegible]	17,749	-74.7		28	11.1
70	[illegible]	18,528	-73.2		28	7.6
60	[illegible]	19,439	-68.8		28	5.9
50	[illegible]	20,546	-63.2		29	4.8
40	[illegible]	21,932	-59.9		[illegible]	5.0
30	[illegible]	23,743	-56.9		[illegible]	2.5
25	[illegible]	24,905	-54.5		[illegible]	[illegible]
20	[illegible]	26,349	-51.9		[illegible]	[illegible]
15	[illegible]	28,234	-47.6		23	[illegible]
10	[illegible]	30,918	[illegible]			
7						

KING SALMON, AK
1007 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	15	[illegible]	[illegible]	[illegible]	1.7
1000	[illegible]	[illegible]	[illegible]	-13.4	07	1.5
950	31	[illegible]	[illegible]	[illegible]	[illegible]	2.4
900	31	889	[illegible]	[illegible]	[illegible]	2.0
850	31	1,329	[illegible]	[illegible]	[illegible]	2.2
800	31	1,792	[illegible]	-19.5	[illegible]	3.0
750	31	2,282	[illegible]	[illegible]	[illegible]	3.9
700	31	2,800	[illegible]	[illegible]	[illegible]	4.9
650	31	3,350	-21.4	-29.9	21	5.0
600	31	3,936	-25.2	-34.1	21	5.6
550	31	4,563	-29.3	-37.4	21	6.8
500	31	5,238	[illegible]	-39.4	22	8.2
450	31	5,970	[illegible]	[illegible]	22	9.4
400	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
350	31	7,666	-47.4		[illegible]	12.1
300	31	8,675	-50.0		[illegible]	13.0
250	31	9,868	-49.3		[illegible]	13.1
200	31	11,338	-46.9		[illegible]	13.0
175	31	12,224	-46.4		[illegible]	13.2
150	31	13,248	-46.4		[illegible]	[illegible]
125	[illegible]	14,455	-46.4		[illegible]	[illegible]
100	[illegible]	15,936	-47.2		[illegible]	8.6
80	[illegible]	17,415	-48.4		[illegible]	6.7
70	[illegible]	18,291	-49.1		[illegible]	5.9
60	[illegible]	19,303	-49.5		[illegible]	4.0
50	[illegible]	20,497	-49.5		[illegible]	4.0
40	[illegible]	[illegible]	-49.2		[illegible]	3.9
30	[illegible]	23,847	[illegible]		[illegible]	4.8
25	[illegible]	25,048	-48.0		[illegible]	6.5
20	[illegible]	26,503	-48.9		[illegible]	8.0
15	[illegible]	28,387	[illegible]		[illegible]	9.2
10						
7						

RAWINSONDE DATA

Average monthly values

MARCH 1975

+ KOROR, CAROLINE IS.
1007 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	30	27.6	23.9	07	3.2
1000	31	92	26.6	23.4	07	3.8
950	31	545	23.0	20.9	07	6.3
900	31	1,015	20.0	16.8	08	7.2
850	31	1,507	17.1	12.4	08	6.4
800	31	2,024	15.5	5.4	08	5.6
750	31	2,570	13.2	1.7	08	6.0
700	31	3,147	10.1	-2.4	08	6.1
650	31	3,760	6.8	-5.7	09	6.4
600	31	4,414	3.2	-9.6	09	7.4
550	31	5,114	-.8	-12.4	09	7.8
500	31	5,870	-4.8	-16.8	09	8.6
450	31	6,692	-9.6	-21.1	09	9.4
400	31	7,592	-15.0	-28.1	09	8.7
350	31	8,592	-22.0	-34.4	09	9.1
300	31	9,704	-30.5	-40.9	10	8.2
250	31	10,973	-40.9	-52.0	11	9.1
200	31	12,450	-53.4		12	11.2
175	31	13,296	-60.3		12	13.5
150	31	14,239	-67.9		12	16.5
125	30	15,318	-75.5		11	18.4
100	30	16,585	-81.8		10	14.0
80	30	17,837	-80.0		08	4.9
70	30	18,601	-75.5		08	4.0
60	29	19,507	-70.4		09	6.7
50	29	20,602	-66.1		09	12.7
40	29	21,968	-61.5		09	22.3
30	28	23,784	-54.6		09	15.6
25	27	24,962	-50.8		09	5.1
20	27	26,425	-47.6		27	6.3
15	23	28,334	-46.0		26	12.3
10	10	31,[illegible]69	-42.4			

KOTZEBUE, AK
1012 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	5	-15.7	-19.1	11	4.0
1000	30	100	-13.2	-17.3	12	4.2
950	31	489	-12.8	-16.6	14	5.2
900	31	901	-13.5	-17.4	15	4.6
850	31	1,335	-14.8	-20.2	16	5.0
800	31	1,792	-16.8	-21.5	16	5.6
750	31	2,275	-19.1	-24.2	16	6.0
700	31	2,785	-21.8	-27.8	17	6.3
650	31	3,328	-25.1	-31.1	17	7.2
600	31	3,905	-28.5	-34.1	16	7.9
550	31	4,524	-32.0	-36.8	17	8.6
500	31	5,192	-36.2	-40.5	17	8.5
450	31	5,916	-40.7	-39.1	16	9.5
400	31	6,709	-45.6		16	9.6
350	31	7,592	-50.4		17	9.5
300	31	8,587	-53.5		18	10.1
250	31	9,763	-51.6		19	9.9
200	31	11,221	-48.7		20	9.8
175	31	12,101	-47.5		21	10.8
150	31	13,123	-46.2		20	11.7
125	31	14,337	-46.0		21	11.7
100	31	15,822	-45.8		21	11.8
80	31	17,307	-46.4		21	11.1
70	30	18,191	-46.6		21	9.3
60	29	19,214	-47.0		21	10.0
50	26	20,414	-46.8		22	8.4
40	26	21,893	-46.8		22	7.7
30	22	23,800	-46.1		21	7.2
25	20	25,011	-46.0		20	5.5
20	14	26,500	-44.5		18	6.0
15	5	28,432	-45.1			
10						

LAKE CHARLES, LA
1014 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	30	5	12.4	10.6	06	1.5
1000	30	119	13.4	9.7	11	1.2
950	30	552	13.1	5.1	19	4.1
900	30	1,006	12.7	1.0	23	5.7
850	30	1,486	11.8	-.6	24	8.0
800	30	1,991	9.6	-6.3	24	9.1
750	30	2,525	7.4	-9.4	25	11.1
700	30	3,090	4.6	-13.2	25	13.8
650	30	3,690	1.4	-16.7	25	16.3
600	30	4,329	-3.1	-20.8	26	17.8
550	30	5,011	-8.0	-24.6	26	19.6
500	30	5,744	-13.6	-29.3	26	21.1
450	30	6,536	-19.3	-33.1	26	24.0
400	30	7,401	-25.8	-38.8	26	26.8
350	30	8,357	-33.1	-44.3	26	30.4
300	30	9,420	-41.2	-43.1	26	34.9
250	30	10,634	-50.5		26	40.4
200	29	12,058	-58.4		26	43.8
175	29	12,895	-59.8		26	43.6
150	29	13,856	-61.3		26	39.0
125	28	14,981	-64.8		26	32.9
100	28	16,330	-68.9		26	26.9
80	27	17,657	-70.3		26	18.4
70	25	18,452	-70.2		26	13.8
60	25	19,377	-66.9		27	10.1
50	25	20,486	-63.5		28	5.7
40	25	21,867	-60.6		27	3.6
30	25	23,670	-57.9		29	3.9
25	25	24,822	-56.7		29	5.9
20	24	26,246	-54.1		29	5.2
15	23	28,105	-50.7		27	5.0
10	18	30,782	-43.9		27	14.3

LANDER, WY
822 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	1,697	-3.4	-8.9	21	.7
1000						
950						
900						
850						
800	31	1,912	-2.6	-11.4	25	.3
750	31	2,421	-5.4	-13.8	29	1.6
700	31	2,960	-8.4	-15.6	28	4.2
650	31	3,532	-11.8	-18.3	29	8.3
600	31	4,140	-15.6	-21.6	29	10.6
550	31	4,792	-19.4	-27.6	28	12.0
500	31	5,493	-24.6	-33.1	27	12.9
450	31	6,252	-30.2	-38.0	27	13.7
400	31	7,079	-36.7	-43.6	28	16.0
350	31	7,992	-44.0		27	17.7
300	31	9,008	-50.9		27	21.0
250	31	10,179	-56.3		28	23.5
200	31	11,598	-54.6		27	23.0
175	31	12,456	-53.2		28	21.5
150	31	13,452	-52.5		27	16.9
125	31	14,626	-54.4		27	14.3
100	31	16,049	-56.2		27	10.4
80	31	17,461	-57.6		27	8.0
70	31	18,304	-58.1		28	5.4
60	31	19,274	-58.3		27	3.2
50	31	20,422	-58.4		32	.5
40	28	21,828	-57.9		06	2.4
30	24	23,653	-57.0		06	6.2
25	20	24,811	-56.7		07	7.3
20	17	26,220	-56.8		07	9.6
15	9	28,065	-55.9			
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*** LIHUE KAUAI, HI**
1016 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	36	21.5	17.2	07	5.1
1000	31	172	20.6	15.3	07	6.1
950	31	614	16.8	13.7	07	7.2
900	31	1,072	13.3	10.6	08	6.4
850	31	1,551	10.1	7.6	08	5.5
800	31	2,055	9.2	-4.3	09	5.6
750	31	2,589	8.2	-10.3	10	4.3
700	31	3,156	5.8	-14.8	11	2.3
650	31	3,758	2.4	-17.3	14	1.7
600	31	4,400	-1.7	-19.9	16	1.5
550	31	5,086	-6.6	-24.5	22	1.4
500	31	5,823	-12.0	-28.6	23	3.1
450	30	6,617	-18.2	-32.9	24	5.2
400	29	7,486	-24.7	-38.3	25	7.6
350	29	8,446	-31.8	-43.4	26	10.6
300	29	9,515	-39.9	-48.0	27	14.2
250	29	10,738	-48.6		27	19.4
200	29	12,180	-55.8		27	22.9
175	29	13,024	-59.0		27	20.9
150	29	13,983	-62.6		27	18.0
125	29	15,097	-67.1		27	15.2
100	29	16,427	-71.6		27	9.4
80	28	17,738	-72.2		26	4.1
70	26	18,527	-70.7		24	2.0
60	25	19,445	-68.2		35	.5
50	24	20,553	-64.3		09	.3
40	24	21,928	-61.6		27	1.9
30	22	23,728	-58.7		30	2.3
25	22	24,878	-57.0		30	1.9
20	21	26,298	-54.2		30	3.1
15	20	28,165	-49.8		28	5.6
10	15	30,854	-44.7		26	11.4

LITTLE ROCK, AR
1006 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	79	6.5	1.4	34	.5
1000	24	149	4.8	-1.6	35	.8
950	31	547	6.4	-.9	26	2.5
900	31	991	6.1	-4.1	26	5.3
850	31	1,459	5.8	-6.0	26	8.2
800	31	1,955	4.5	-7.2	26	11.2
750	31	2,479	2.2	-11.2	27	13.3
700	31	3,033	-.9	-14.1	27	15.3
650	31	3,621	-3.9	-17.7	27	18.2
600	31	4,248	-7.9	-21.4	27	21.1
550	31	4,919	-12.4	-26.0	27	23.3
500	31	5,640	-17.5	-29.4	27	25.5
450	31	6,421	-23.0	-34.7	26	26.9
400	30	7,272	-29.3	-40.4	26	30.9
350	30	8,215	-36.2	-46.4	27	34.6
300	30	9,265	-43.8		27	38.4
250	29	10,463	-51.9		27	42.2
200	28	11,889	-58.5		27	44.3
175	28	12,728	-58.5		27	42.6
150	28	13,696	-58.7		27	38.1
125	28	14,834	-61.5		27	32.1
100	26	16,210	-63.1		27	23.7
80	25	17,579	-64.5		27	15.5
70	25	18,394	-64.8		28	11.5
60	25	19,336	-64.3		28	6.6
50	24	20,457	-61.9		29	3.4
40	23	21,844	-60.2		33	2.1
30	22	23,648	-58.1		35	1.8
25	22	24,800	-56.9		36	1.6
20	22	26,219	-55.0		35	1.9
15	18	28,078	-51.9		32	2.5
10	13	30,724	-46.6		27	5.9

MCGRATH, AK
999 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	103	-16.6	-20.5	33	.6
1000	15	153	-13.0	-16.3	35	.7
950	31	489	-10.5	-14.5	06	1.5
900	31	905	-11.1	-15.9	15	1.3
850	31	1,343	-12.5	-17.7	17	2.2
800	31	1,805	-13.9	-19.8	18	3.6
750	31	2,294	-16.0	-22.8	18	5.0
700	31	2,810	-19.1	-26.5	18	5.1
650	31	3,358	-22.3	-29.2	19	5.7
600	31	3,942	-26.0	-32.2	18	6.6
550	31	4,567	-30.1	-35.3	17	7.3
500	31	5,239	-34.6	-38.8	18	8.2
450	31	5,968	-39.4	-39.8	18	9.0
400	31	6,765	-44.7	-43.1	19	8.9
350	31	7,652	-49.6		20	9.8
300	31	8,651	-52.4		20	10.1
250	31	9,834	-50.7		22	9.4
200	31	11,299	-47.0		22	9.9
175	31	12,186	-46.1		22	10.1
150	30	13,210	-45.6		22	9.5
125	30	14,425	-46.0		22	9.2
100	30	15,908	-46.4		22	7.9
80	30	17,388	-47.1		22	7.1
70	30	18,272	-47.7		22	6.3
60	30	19,289	-48.0		22	5.6
50	30	20,492	-48.1		21	5.1
40	30	21,966	-47.4		21	4.3
30	25	23,872	-47.0		20	3.1
25	20	25,099	-47.3		19	2.4
20	16	26,364	-47.9		14	2.0
15	8	28,483	-46.7			
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+ MAJURO, MARSHALL IS.
1011 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	3	28.2	23.7	07	6.4
1000	31	96	26.8	22.3	07	8.1
950	31	548	23.0	20.6	07	10.9
900	31	1,019	19.9	17.2	08	11.5
850	31	1,511	17.2	13.4	08	10.7
800	31	2,028	15.5	7.2	09	9.0
750	31	2,574	13.1	2.8	09	7.2
700	31	3,152	10.2	-1.2	10	5.9
650	31	3,765	6.9	-6.1	10	5.5
600	31	4,419	3.4	-11.5	09	5.4
550	31	5,120	-.3	-16.1	08	4.7
500	31	5,876	-4.8	-20.5	07	3.1
450	31	6,698	-9.3	-25.0	04	2.9
400	31	7,600	-14.5	-29.0	36	3.6
350	31	8,602	-21.1	-35.3	34	4.5
300	31	9,718	-29.4	-42.9	31	3.9
250	31	10,993	-39.7	-52.2	29	5.8
200	31	12,478	-52.0		30	7.0
175	31	13,331	-58.7		32	7.7
150	31	14,282	-66.2		33	8.2
125	31	15,367	-73.6		34	7.1
100	31	16,645	-81.1		01	4.4
80	31	17,898	-79.5		08	4.1
70	31	18,666	-74.3		09	4.5
60	31	19,574	-70.1		09	7.4
50	31	20,672	-64.8		09	15.4
40	31	22,049	-60.1		09	21.6
30	30	23,873	-53.3		09	12.0
25	30	25,058	-49.9		08	2.3
20	30	26,526	-47.3		27	4.7
15	25	28,442	-43.8		27	9.7
10	6	31,130	-43.4			

*** MEDFORD, OR**
968 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	401	3.3	-.2	25	.4
1000						
950	31	551	3.9	-.7	27	.6
900	31	990	2.3	-2.8	20	1.3
850	31	1,449	-.6	-5.7	22	2.6
800	31	1,932	-3.1	-9.1	23	4.4
750	31	2,441	-5.3	-13.1	25	6.3
700	31	2,980	-8.1	-17.0	27	8.1
650	31	3,553	-11.1	-18.7	28	9.3
600	31	4,164	-14.3	-23.6	28	10.8
550	31	4,818	-18.5	-28.7	28	12.3
500	31	5,523	-23.2	-33.0	27	13.1
450	31	6,285	-28.9	-36.1	27	14.3
400	31	7,117	-35.4	-41.1	27	15.2
350	31	8,037	-42.1	-45.0	27	16.0
300	31	9,062	-49.2		27	19.2
250	31	10,240	-54.9		28	20.6
200	31	11,659	-56.1		28	16.7
175	31	12,512	-54.2		28	14.9
150	31	13,502	-54.1		28	14.5
125	31	14,668	-55.8		28	13.2
100	31	16,082	-57.3		28	10.3
80	31	17,493	-57.8		28	7.0
70	30	18,332	-58.7		28	4.7
60	30	19,300	-58.6		30	3.1
50	30	20,447	-58.6		35	1.1
40	28	21,855	-57.8		06	2.8
30	25	23,670	-57.1		07	5.9
25	22	24,831	-56.2		07	8.2
20	17	26,255	-55.4		07	8.3
15	15	28,101	-53.7		07	8.9
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MERIDA, MEXICO
1012 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	11	20.8	20.0	10	1.5
1000	31	111	21.7	19.5	12	4.6
950	31	557	20.5	17.0	13	9.5
900	31	1,024	19.3	10.1	13	8.4
850	31	1,514	17.1	5.9	14	6.0
800	31	2,030	14.8	1.3	15	3.4
750	31	2,574	12.8	-4.4	16	2.1
700	31	3,151	10.2	-9.4	20	1.9
650	31	3,763	6.7	-12.7	25	1.8
600	31	4,415	2.8	-17.5	27	1.7
550	31	5,113	-1.7	-21.3	27	3.2
500	31	5,865	-6.8	-26.5	27	4.9
450	31	6,678	-12.8	-31.4	27	6.1
400	31	7,565	-19.5	-36.8	27	9.1
350	31	8,545	-27.1	-42.7	27	11.2
300	31	9,634	-35.6	-49.0	27	14.7
250	31	10,877	-45.3		27	18.4
200	31	12,331	-56.0		27	21.3
175	31	13,170	-61.1		27	23.9
150	30	14,118	-66.7		27	22.5
125	29	15,210	-70.6		27	18.6
100	29	16,519	-75.2		26	13.7
80	28	17,805	-77.7		26	7.9
70	28	18,571	-76.3		25	5.5
60	28	19,474	-69.9		23	2.8
50	28	20,580	-62.7		10	1.0
40	27	21,963	-60.4		08	2.3
30	27	23,769	-56.9		06	5.3
25	27	24,932	-54.1		07	5.8
20	27	26,375	-51.2		06	4.2
15	25	28,267	-47.0		34	1.0
10	5	31,027	-41.6			

MIAMI, FL
1017 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	4	19.7	15.7	11	.9
1000	31	150	20.6	15.8	14	2.1
950	31	592	17.8	12.5	16	4.0
900	31	1,054	15.3	8.7	18	3.0
850	31	1,537	13.5	1.8	24	2.9
800	31	2,045	11.3	-3.6	25	4.2
750	31	2,582	9.4	-8.8	25	4.5
700	31	3,152	7.1	-13.1	26	5.0
650	31	3,757	3.9	-16.6	26	7.0
600	31	4,4[illegible]3	-.2	-19.9	27	9.5
550	31	5,[illegible]93	-4.8	-23.5	27	11.9
500	31	5,835	-9.9	-28.3	28	13.5
450	30	6,638	-15.9	-32.6	28	16.6
400	30	7,514	-22.6	-37.6	28	19.7
350	29	8,481	-30.2	-41.3	28	27.6
300	28	9,554	-38.7	-47.8	28	24.6
250	27	10,779	-48.3		29	28.7
200	26	12,213	-57.6		29	36.1
175	26	13,052	-60.2		29	36.2
150	26	14,008	-63.1		28	35.1
125	26	15,121	-66.5		28	27.8
100	26	16,454	-71.6		28	22.0
80	26	17,766	-72.9		28	16.4
70	26	18,551	-71.6		28	11.6
60	26	19,470	-67.9		28	8.3
50	24	20,576	-63.2		29	6.7
40	23	21,959	-59.9		29	5.9
30	21	23,773	-56.8		28	4.9
25	21	24,934	-54.7		28	3.8
20	21	26,367	-53.3		27	5.5
15	18	28,245	-48.6		25	4.0
10	9	30,963	-40.4			

MIDLAND, TX
913 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	874	6.4	-1.9	26	.7
1000						
950						
900	31	988	8.6	-2.4	25	1.8
850	31	1,462	9.6	-4.7	26	5.3
800	31	1,965	8.3	-8.9	27	8.2
750	31	2,495	5.8	-11.7	27	11.6
700	31	3,056	2.1	-15.9	26	13.1
650	31	3,650	-1.7	-18.2	26	15.2
600	31	4,281	-6.0	-21.2	26	17.7
550	31	4,957	-10.7	-26.3	26	19.6
500	31	5,682	-15.9	-32.4	26	22.4
450	31	6,467	-21.7	-37.0	26	26.0
400	31	7,323	-28.3	-42.5	25	28.9
350	31	8,270	-35.3	-48.5	25	32.8
300	31	9,323	-43.3		26	37.0
250	30	10,522	-52.2		26	38.2
200	30	11,941	-58.4		26	41.6
175	30	12,781	-58.5		26	41.1
150	29	13,747	-59.1		26	37.1
125	29	14,882	-62.2		26	32.9
100	28	16,250	-65.5		27	26.2
80	28	17,600	-67.4		27	16.5
70	27	18,406	-65.9		26	11.2
60	26	19,345	-65.2		26	4.7
50	25	20,460	-62.8		28	3.7
40	25	21,843	-60.7		31	2.4
30	25	23,640	-59.1		30	2.0
25	24	24,790	-57.9		30	3.0
20	23	26,200	-56.2		30	2.8
15	23	28,042	-52.6		30	3.7
10	14	30,707	-46.2			

MONTERREY, MEXICO
960 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	30	423	14.5	9.4	34	1.5
1000						
950	30	540	15.9	9.2	35	1.5
900	30	1,001	16.2	5.8	31	.8
850	30	1,487	15.2	1.5	21	1.6
800	30	2,000	14.8	-3.3	22	3.5
750	30	2,544	12.9	-8.2	25	5.0
700	30	3,118	8.7	-11.8	25	7.8
650	30	3,726	4.3	-15.3	25	10.9
600	29	4,371	-.7	-18.0	25	13.1
550	29	5,059	-6.0	-21.5	25	14.8
500	29	5,798	-11.2	-27.4	25	17.1
450	29	6,598	-16.9	-31.4	25	19.1
400	28	7,472	-23.4	-36.0	25	23.1
350	28	8,438	-30.4	-41.5	25	28.1
300	28	9,511	-39.1	-47.4	25	32.0
250	28	10,735	-48.8		25	35.9
200	28	12,169	-57.8		25	39.4
175	27	13,004	-61.1		25	36.9
150	27	13,956	-64.0		26	33.8
125	26	15,061	-68.0		26	29.2
100	24	16,389	-72.3		25	24.4
80	22	17,698	-73.7		25	15.7
70	22	18,478	-73.4		26	10.0
60	19	19,391	-68.9		26	7.2
50	19	20,498	-64.1		27	6.0
40	18	21,878	-60.8		26	3.7
30	18	23,680	-58.2		27	5.0
25	16	24,834	-56.7		27	5.5
20	14	26,246	-54.2		27	7.4
15	10	28,087	-51.0			
10	5	30,750				

MONETT, MO
963 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	438	1.2	-2.3	06	.4
1000						
950	30	549	1.2	-3.1	32	.7
900	31	980	1.7	-3.9	27	4.1
850	31	1,442	2.6	-7.7	28	7.5
800	31	1,932	1.8	-9.5	28	9.8
750	31	2,451	-.2	-11.8	28	11.4
700	31	3,001	-2.8	-14.1	28	13.5
650	31	3,586	-5.9	-17.2	27	16.2
600	31	4,208	-9.9	-21.5	27	18.6
550	31	4,874	-14.4	-26.1	27	20.6
500	31	5,589	-19.9	-30.5	27	22.1
450	30	6,363	-25.2	-35.5	27	23.7
400	29	7,213	-31.3	-40.7	27	26.2
350	29	8,148	-38.3	-45.9	27	28.4
300	28	9,188	-45.7		27	33.8
250	28	10,384	-52.7		26	37.1
200	28	11,805	-57.5		27	40.0
175	28	12,650	-57.0		27	35.0
150	28	13,626	-56.9		27	32.8
125	28	14,776	-58.7		27	27.5
100	28	16,171	-60.7		27	19.2
80	28	17,556	-61.9		27	14.4
70	28	18,381	-62.7		27	11.0
60	27	19,329	-62.3		28	6.6
50	26	20,459	-61.4		29	3.4
40	26	21,849	-59.7		34	2.3
30	24	23,655	-58.3		02	1.6
25	23	24,806	-57.3		02	1.8
20	18	26,225	-55.4		02	3.0
15	16	28,076	-53.0		04	2.5
10	9	30,725	-47.8			

NASHVILLE, TN
994 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	180	4.7	1.1	25	.9
1000	9	206	-.5	-5.2		
950	31	550	4.4	-.5	23	3.9
900	31	989	2.6	-2.1	25	6.8
850	31	1,451	1.9	-5.5	26	9.8
800	31	1,939	.7	-8.6	27	11.7
750	31	2,456	-1.3	-11.1	27	14.0
700	31	3,004	-3.3	-14.9	27	17.0
650	30	3,586	-6.5	-18.0	27	19.2
600	30	4,208	-9.9	-21.5	27	21.9
550	30	4,873	-14.3	-26.4	27	24.2
500	30	5,590	-18.9	-31.9	27	27.6
450	30	6,367	-24.1	-35.9	27	29.7
400	30	7,215	-30.2	-40.8	27	31.6
350	30	8,156	-37.0	-45.3	27	33.1
300	30	9,202	-44.7	-48.6	27	36.7
250	30	10,401	-52.2		27	37.6
200	30	11,825	-57.0		27	40.3
175	30	12,669	-57.8		27	38.7
150	30	13,640	-58.2		27	36.6
125	30	14,785	-59.7		27	29.7
100	30	16,173	-61.6		27	22.5
80	29	17,553	-63.0		27	15.4
70	29	18,374	-63.4		28	10.3
60	29	19,321	-63.2		27	7.1
50	27	20,448	-61.7		28	4.8
40	27	21,836	-60.2		30	2.6
30	26	23,637	-58.8		36	2.0
25	26	24,787	-57.2		02	2.1
20	25	26,203	-55.2		02	2.2
15	22	28,045	-52.5		30	2.9
10	16	30,712	-46.9			

RAWINSONDE DATA

Average monthly values

NOME, AK
1010 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	30	5	-14.4	-14.2	09	3.5
1000	26	96	-12.6	-14.3	11	3.1
950	30	472	-12.1	-14.1	14	5.1
900	30	884	-13.6	-15.4	16	5.7
850	30	1,318	-15.0	-18.0	16	4.2
800	30	1,775	-16.8	-20.9	16	6.0
750	30	2,258	-19.0	-24.7	17	6.3
700	30	2,769	-21.8	-28.2	17	7.2
650	30	3,312	-24.8	-32.8	17	7.3
600	30	3,890	-28.5	-36.5	17	8.4
550	30	4,508	-32.2	-40.8	17	8.6
500	30	5,175	-36.2	-41.5	17	8.2
450	30	5,900	-40.6	-43.2	18	8.1
400	30	6,694	-45.3		17	8.6
350	30	7,579	-49.7		18	8.7
300	30	8,578	-52.2		18	9.1
250	30	9,761	-50.7		20	9.9
200	30	11,224	-47.9		20	10.3
175	30	12,107	-46.7		21	10.8
150	30	13,131	-46.0		21	11.2
125	30	14,346	-45.2		21	11.1
100	30	15,835	-45.4		21	11.4
80	30	17,322	-45.9		21	10.2
70	30	18,210	-46.4		21	9.6
60	30	19,232	-47.0		21	8.8
50	30	20,439	-47.3		21	8.6
40	30	21,916	-47.4		21	6.7
30	30	23,823	-46.4		19	7.2
25	28	25,036	-46.0		19	5.2
20	26	26,534	-45.5		19	5.2
15	17	28,481	-44.6		19	4.7
10	6	31,221	-42.2			
7						

NORTH PLATTE, NE
916 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	847	-4.3	-7.1	03	.6
1000						
950						
900	29	977	-3.8	-7.6	33	.6
850	31	1,419	-2.4	-8.7	[illegible]	2.5
800	31	1,901	-2.8	-9.7	29	4.7
750	31	2,411	-3.9	-13.1	28	6.7
700	31	2,954	-6.0	-14.9	28	9.0
650	31	3,532	-9.3	-18.7	28	10.7
600	31	4,146	-13.3	-21.8	28	12.1
550	31	4,803	-17.5	-27.0	28	13.3
500	31	5,510	-22.3	-32.3	27	14.4
450	31	6,276	-27.6	-37.5	27	16.1
400	31	7,112	-34.3	-43.0	27	17.8
350	31	8,034	-41.7	-45.8	27	18.9
300	31	9,059	-49.4		27	20.4
250	31	10,235	-55.6		27	25.1
200	30	11,659	-54.9		27	26.4
175	30	12,514	-54.4		27	24.0
150	30	13,504	-53.5		27	[illegible]
125	30	14,675	-54.8		27	18.4
100	30	16,094	-57.0		27	14.9
80	30	17,501	-58.7		27	10.6
70	29	18,342	-59.0		27	8.4
60	27	19,307	-59.3		28	5.9
50	27	20,450	-59.1		31	3.3
40	27	21,850	-58.7		35	1.6
30	27	23,662	-57.3		05	3.5
25	25	24,815	-56.6		06	4.5
20	22	26,239	-55.6		06	5.5
15	18	28,079	-54.2		07	5.7
10	11	30,704	-50.6		06	2.4
7						

OAKLAND, CA
1015 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	6	[illegible]	5.3	18	.6
1000	31	130	9.2	[illegible]	23	.9
950	31	554	6.9	[illegible]	28	2.0
900	31	997	4.5	-2.5	30	2.8
850	31	1,461	[illegible]	[illegible]	28	4.1
800	31	1,949	.2	-9.7	28	4.7
750	31	2,464	-1.8	-13.0	29	5.8
700	31	3,011	-4.5	-17.2	30	7.8
650	31	3,591	-7.6	-19.5	30	9.3
600	31	4,210	-11.4	[illegible]	29	10.7
550	31	4,872	-15.6	-28.8	29	12.5
500	31	5,584	[illegible]	-33.6	29	14.7
450	31	6,355	-26.4	-38.7	29	16.0
400	31	7,195	-32.6	-43.6	29	17.8
350	31	8,175	-39.6	-47.7	29	19.9
300	31	9,159	-47.2		29	22.4
250	31	10,346	-54.2		29	25.8
200	30	11,761	-58.3		29	25.6
175	30	12,605	-56.1		29	25.3
150	30	13,587	-56.1		29	20.2
125	30	14,743	-57.5		29	18.4
100	30	16,142	-60.4		28	14.4
80	30	17,529	-61.3		28	9.4
70	30	18,358	-61.1		26	8.2
60	29	19,312	-61.0		28	5.1
50	29	20,447	-60.6		31	2.9
40	29	21,839	-59.6		04	1.8
30	27	23,649	-57.9		07	3.7
25	22	24,804	-56.9		08	5.2
20	21	26,227	-55.6		07	6.1
15	14	28,078	-53.0		07	7.7
10						
7						

OMAHA, NE
968 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	403	[illegible]	-8.8	32	.9
1000						
950	29	544	-3.0	-5.7	34	[illegible]
900	31	959	-3.3	-8.2	29	2.4
850	31	1,412	-3.3	-11.5	28	5.0
800	31	1,892	-3.4	-12.5	28	7.2
750	31	2,401	-5.1	-15.2	29	9.1
700	31	2,941	-7.0	-17.3	28	[illegible]
650	31	3,516	-9.6	-21.3	28	12.8
600	31	4,130	-13.3	-24.0	28	15.5
550	31	4,787	-17.5	-27.4	28	17.2
500	31	5,495	-22.4	-32.7	27	19.3
450	31	6,260	-28.1	-38.3	28	21.1
400	31	7,094	-34.6	-45.0	27	23.5
350	31	8,016	-41.6	-45.4	27	[illegible]
300	31	9,042	-49.0		26	[illegible]
250	31	10,220	-55.4		26	[illegible]
200	31	11,642	-55.0		27	32.2
175	31	12,497	-53.8		27	28.6
150	31	13,488	-53.9		27	[illegible]
125	31	14,657	-54.6		27	[illegible]
100	31	16,078	-56.8		27	[illegible]
80	31	17,488	-58.3		27	[illegible]
70	31	18,327	-59.1		27	8.6
60	31	19,292	-59.7		27	[illegible]
50	30	20,437	-59.0		29	3.0
40	29	21,838	-58.6		33	[illegible]
30	28	23,651	-57.7		06	4.2
25	27	24,803	-56.7		06	5.1
20	25	26,228	-55.3		06	5.6
15	22	28,064	-54.1		07	4.7
10	16	30,681	-50.8		08	3.7
7	5	33,078	-43.5			

PAGO PAGO, AMERICAN SAMOA
[illegible] MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	5	[illegible]	[illegible]	[illegible]	[illegible]
1000	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
950	31	554	23.3	20.4	07	4.7
900	31	1,024	19.9	17.2	06	[illegible]
850	31	1,516	17.3	13.1	06	5.9
800	31	[illegible]	14.6	9.6	06	5.7
750	31	2,577	[illegible]	5.7	06	[illegible]
700	31	3,152	[illegible]	.4	06	4.4
650	31	3,763	[illegible]	-3.4	06	3.3
600	31	[illegible]	[illegible]	[illegible]	[illegible]	3.2
550	31	[illegible]	-2.4	-12.1	05	2.8
500	31	5,860	[illegible]	[illegible]	[illegible]	1.8
450	31	6,676	[illegible]	[illegible]	[illegible]	[illegible]
400	31	7,570	[illegible]	-26.5	[illegible]	[illegible]
350	31	8,561	[illegible]	[illegible]	[illegible]	[illegible]
300	31	9,665	-32.3	-42.7	24	[illegible]
250	29	10,923	[illegible]		[illegible]	6.7
200	29	[illegible]	[illegible]		[illegible]	[illegible]
175	29	13,232	-61.4		[illegible]	11.7
150	29	[illegible]	-68.0		[illegible]	13.0
125	28	15,254	[illegible]		[illegible]	10.5
100	28	16,546	[illegible]		[illegible]	4.0
80	28	17,838	-74.7		[illegible]	5.9
70	28	18,617	-72.6		[illegible]	11.0
60	28	19,531	-68.8		[illegible]	15.8
50	28	20,635	[illegible]		[illegible]	19.8
40	25	22,013	[illegible]		[illegible]	[illegible]
30	24	23,829	[illegible]		[illegible]	24.6
25	24	24,999	[illegible]		[illegible]	23.5
20	22	26,446	[illegible]		[illegible]	20.0
15	21	28,341	[illegible]		[illegible]	15.7
10	13	31,076	[illegible]		[illegible]	17.6
7						

PEORIA, IL
991 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	200	-2.1	-4.7	32	1.3
1000	7	218	-7.5	-10.1		
950	31	535	-2.3	-6.1	32	2.4
900	31	964	-3.1	-9.7	29	4.1
850	31	1,416	-3.4	-11.9	29	6.1
800	31	1,895	-3.9	-15.8	28	8.4
750	31	2,403	-5.6	-19.3	28	10.6
700	31	2,942	-8.2	-20.5	28	11.6
650	31	3,514	-11.0	-23.2	28	13.5
600	31	4,126	-14.1	-26.1	28	16.1
550	31	4,781	-18.1	-29.5	28	18.7
500	31	5,487	-22.6	-34.2	27	21.8
450	31	6,252	-28.0	-40.0	27	24.2
400	31	7,087	-34.1	-44.9	27	25.7
350	31	8,011	-41.0	-47.1	27	28.2
300	30	9,042	-48.3		27	31.9
250	30	10,227	-54.4		27	33.7
200	30	11,648	-55.5		27	35.0
175	30	12,502	-54.7		27	30.3
150	30	13,490	-54.6		27	26.7
125	30	14,654	-55.7		27	22.9
100	29	16,067	-57.6		27	16.8
80	28	17,470	-59.2		27	12.5
70	28	18,306	-59.5		28	10.5
60	28	19,271	-59.9		28	7.2
50	27	20,409	-59.4		30	4.2
40	27	21,810	-58.4		34	1.9
30	27	23,623	-57.4		05	3.4
25	27	24,779	-56.3		05	4.9
20	27	26,199	-55.5		07	5.4
15	25	28,040	-53.7		06	4.5
10	5	30,624	-50.9			
7						

PITTSBURGH, PA
972 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	359	.1	-4.4	26	.7
1000						
950	31	539	-.3	-4.6	26	1.1
900	31	971	-1.7	-6.4	25	3.8
850	31	1,425	-3.2	-8.3	26	7.4
800	31	1,904	-4.7	-10.9	27	9.6
750	31	2,411	-6.3	-12.9	27	11.8
700	31	2,948	-8.4	-15.5	27	14.1
650	31	3,521	-10.7	-17.0	27	16.5
600	31	4,134	-14.0	-20.8	27	18.1
550	31	4,790	-18.0	-26.5	27	19.9
500	31	5,496	-22.6	-31.7	27	21.6
450	31	6,262	-27.7	-36.4	27	22.9
400	31	7,098	-33.5	-40.1	27	26.4
350	31	8,025	-40.2	-42.0	27	28.2
300	31	9,059	-46.5		27	32.0
250	31	10,254	-52.0		27	36.6
200	31	11,687	-55.1		27	36.3
175	31	12,541	-54.4		27	33.1
150	31	13,532	-53.7		27	28.1
125	31	14,701	-55.1		27	23.7
100	29	16,121	-56.8		27	18.5
80	29	17,531	-58.0		27	13.3
70	29	18,371	-58.4		27	10.7
60	24	19,346	-58.8		28	7.0
50	24	20,491	-58.6		28	4.4
40	22	21,902	-58.0		33	.9
30	20	23,724	-56.6		07	2.0
25	18	24,875	-56.3		08	1.7
20	17	26,295	-55.2		06	4.4
15	14	28,136	-53.9		06	4.7
10						
7						

PONAPE, CAROLINE IS.
1005 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	39	28.0	23.5	06	4.1
1000	31	83	26.6	22.2	06	4.9
950	31	535	22.9	20.5	07	9.0
900	31	1,005	19.5	17.2	08	10.3
850	31	1,496	17.0	11.7	08	9.6
800	31	2,013	15.7	5.6	09	7.7
750	31	2,559	13.4	.5	09	5.5
700	31	3,136	10.2	-2.0	10	4.5
650	31	3,749	6.7	-5.7	09	6.1
600	31	4,403	3.6	-12.1	09	7.0
550	31	5,105	.2	-16.9	10	6.2
500	31	5,862	-4.6	-21.1	09	7.1
450	30	6,685	-9.0	-26.1	08	6.6
400	30	7,588	-14.6	-31.9	07	6.2
350	30	8,589	-21.3	-37.4	07	4.7
300	30	9,704	-29.9	-44.3	05	3.4
250	29	10,976	-40.0	-52.4	09	.7
200	29	12,460	-52.2		09	2.0
175	29	13,311	-59.0		07	2.2
150	29	14,261	-66.9		05	4.1
125	28	15,339	-75.4		05	6.2
100	28	16,603	-83.4		07	8.1
80	27	17,844	-81.8		08	5.8
70	27	18,604	-75.6		08	5.2
60	26	19,507	-70.5		09	7.5
50	25	20,602	-65.4		09	14.0
40	24	21,974	-61.1		09	21.9
30	24	23,786	-54.6		09	14.8
25	24	24,964	-50.9		09	5.1
20	24	26,427	-47.6		27	3.6
15	21	28,340	-45.7		27	10.7
10	10	31,066	-43.3			
7						

PORTLAND, ME
1010 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	20	-3.9	-7.7	32	2.0
1000	22	141	-3.4	-10.8	31	2.4
950	31	502	-3.2	-10.0	32	3.8
900	31	929	-4.8	-11.1	31	4.8
850	31	1,377	-5.7	-13.9	31	6.4
800	31	1,852	-6.7	-17.7	30	8.7
750	31	2,355	-8.5	-19.8	29	10.9
700	31	2,887	-10.8	-22.4	28	12.8
650	31	3,455	-13.3	-25.1	28	14.8
600	31	4,060	-16.6	-28.5	27	16.8
550	31	4,710	-20.4	-31.5	27	19.6
500	31	5,409	-24.9	-35.5	28	21.9
450	30	6,175	-29.6	-39.7	27	25.5
400	30	7,005	-35.2	-44.4	28	28.0
350	30	7,926	-41.6	-45.6	27	30.3
300	30	8,956	-47.9		27	31.1
250	30	10,145	-52.3		27	33.1
200	30	11,582	-53.6		27	27.5
175	30	12,443	-52.7		27	24.3
150	30	13,441	-52.1		27	21.5
125	30	14,618	-53.3		27	18.3
100	30	16,049	-55.1		27	13.6
80	30	17,469	-56.4		27	10.4
70	30	18,315	-57.2		27	7.4
60	30	19,291	-57.2		26	4.9
50	28	20,445	-57.7		29	3.2
40	26	21,851	-57.3		05	1.4
30	26	23,672	-56.9		07	3.8
25	26	24,828	-56.3		08	5.1
20	25	26,249	-55.6		07	4.9
15	22	28,086	-54.4		06	5.2
10	12	30,646	-53.5			
7						

QUILLAYUTE, WA
1007 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	58	2.9	.3	[illegible]	.8
1000	24	139	[illegible]	-.2	02	[illegible]
950	31	524	[illegible]	[illegible]	[illegible]	[illegible]
900	31	958	-.9	-4.7	20	4.3
850	31	1,412	-3.8	-8.5	22	4.4
800	31	1,889	-6.2	-12.9	24	[illegible]
750	31	2,392	-8.4	-18.2	26	5.1
700	31	2,925	[illegible]	-20.7	[illegible]	5.9
650	31	3,491	-14.2	-23.6	28	7.6
600	31	4,094	-18.0	-27.8	28	8.5
550	31	4,739	-22.3	-31.9	28	10.4
500	31	5,433	-27.2	-36.7	28	12.0
450	30	6,192	-32.4	-40.4	28	12.7
400	30	7,013	-38.1	-45.1	28	14.4
350	30	7,923	-44.4		28	15.6
300	30	8,937	[illegible]		[illegible]	17.6
250	30	10,114	-53.7		[illegible]	18.6
200	30	11,550	-53.1		[illegible]	15.5
175	30	12,412	-52.3		[illegible]	13.8
150	30	13,409	[illegible]		[illegible]	13.3
125	30	14,586	-53.4		[illegible]	10.8
100	30	[illegible]	-54.5		[illegible]	7.0
80	29	17,445	-55.6		[illegible]	4.6
70	27	18,302	-56.2		[illegible]	3.7
60	27	19,283	-56.0		[illegible]	[illegible]
50	23	20,443	-56.1		[illegible]	[illegible]
40	23	21,862	-55.9		[illegible]	4.5
30	23	23,697	-55.3		[illegible]	[illegible]
25	[illegible]	[illegible]	-54.8		[illegible]	[illegible]
20	22	26,295	-54.4		[illegible]	11.1
15	22	[illegible]	[illegible]		[illegible]	13.8
10	15	30,742	[illegible]		[illegible]	17.6
7	10	33,056	[illegible]			

RAPID CITY, SD
900 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	966	-4.8	-8.3	33	1.9
1000						
950						
900	14	1,015	-7.8	-11.7	29	.9
850	31	1,417	-3.8	-10.5	30	4.4
800	31	1,894	-5.3	-12.6	30	[illegible]
750	31	2,400	-6.8	-14.4	30	7.5
700	31	2,937	-8.9	-16.1	30	8.9
650	31	3,508	-12.2	-19.5	30	[illegible]
600	31	4,116	-15.9	-22.3	29	11.3
550	31	4,767	-19.9	-26.9	29	11.4
500	31	5,467	-24.5	-31.6	28	12.1
450	31	6,227	-29.8	-37.2	28	14.6
400	31	7,056	-36.2	-43.2	28	16.4
350	31	7,971	-43.6		27	17.7
300	31	8,986	-51.6		27	[illegible]
250	31	10,152	-57.0		27	23.9
200	31	11,570	-54.2		27	23.1
175	30	12,432	-52.4		27	20.7
150	30	13,430	-52.5		27	18.4
125	28	14,604	-53.9		28	15.6
100	27	16,031	-55.9		28	13.3
80	26	17,446	-56.9		28	10.9
70	25	18,290	-57.2		29	8.3
60	25	19,263	-58.0		29	5.1
50	23	20,413	-57.9		31	3.0
40	23	21,821	-57.5		01	2.8
30	20	23,642	-56.7		05	5.0
25	20	24,798	-56.5		06	8.0
20	16	26,214	-55.4		06	9.1
15	7	28,056	-55.3			
10						

ST CLOUD, MN
978 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	316	-10.1	[illegible]	[illegible]	.9
1000						
950	31	540	-7.4	-10.2	36	.9
900	31	961	-7.9	[illegible]	[illegible]	1.1
850	31	1,406	-8.2	-15.7	28	2.3
800	31	1,876	-9.3	-18.0	[illegible]	4.1
750	31	2,374	-10.8	[illegible]	28	5.7
700	31	2,902	-12.7	-22.7	28	7.6
650	31	3,465	-15.4	-25.9	28	9.9
600	31	4,066	-18.3	-30.1	28	11.2
550	31	4,711	-22.2	-32.5	28	[illegible]
500	31	5,405	-26.9	-36.2	[illegible]	15.7
450	31	6,157	-32.2	-41.2	28	18.4
400	31	6,979	-38.1	-46.1	28	20.5
350	31	7,887	-45.0		[illegible]	22.7
300	31	8,899	-51.4		[illegible]	25.2
250	31	10,071	-55.2		[illegible]	26.5
200	31	11,504	-52.3		28	22.6
175	31	12,371	-51.5		[illegible]	20.6
150	30	13,376	-51.9		[illegible]	19.0
125	30	14,555	-52.8		28	16.2
100	30	15,989	-54.8		28	12.2
80	30	17,413	-55.8		28	9.8
70	30	18,262	-56.8		[illegible]	6.9
60	30	19,239	-56.8		[illegible]	4.9
50	30	20,395	-56.6		[illegible]	2.7
40	29	21,811	-56.3		[illegible]	[illegible]
30	28	23,637	-56.2		[illegible]	4.4
25	26	24,794	-55.7		[illegible]	5.6
20	26	26,218	-55.3		[illegible]	7.5
15	22	28,057	-54.7		[illegible]	8.5
10	11	30,609	-55.4			

ST PAUL ISLAND, AK
1006 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	30	10	-6.9	-8.1	36	.3
1000	21	106	-7.6	-9.9	26	.8
950	30	453	-8.5	-10.4	17	[illegible]
900	[illegible]	871	-10.8	-13.4	20	[illegible]
850	30	1,309	-12.5	-17.9	21	3.9
800	30	1,770	-14.7	-20.5	21	4.2
750	[illegible]	2,256	-17.5	-23.6	22	4.2
700	30	2,770	-20.2	-27.4	23	4.8
650	[illegible]	3,317	-22.8	-31.1	23	5.5
600	[illegible]	[illegible]	-26.1	-34.7	23	[illegible]
550	[illegible]	4,525	-29.8	-37.6	23	[illegible]
500	30	5,198	-34.4	-41.3	24	8.3
450	29	5,930	-39.0	-41.6	24	10.3
400	29	6,729	-44.0		23	11.6
350	29	7,619	-48.4		22	13.1
300	28	8,634	-50.1		22	[illegible]
250	28	9,827	-49.0		22	15.1
200	27	11,298	-46.6		22	14.6
175	28	12,191	-46.2		23	13.4
150	26	13,207	-45.8		23	13.6
125	25	14,424	-46.0		22	12.9
100	25	15,908	-46.9		22	[illegible]
80	24	17,386	-47.4		[illegible]	[illegible]
70	24	18,269	-47.6		[illegible]	[illegible]
60	24	[illegible]	-48.1		[illegible]	7.8
50	22	20,481	-49.0		19	[illegible]
40	21	21,942	-49.3		17	[illegible]
30	19	23,824	-49.5		[illegible]	[illegible]
25	18	25,019	-49.1		13	[illegible]
20	17	26,493	-48.6		11	9.5
15	[illegible]	28,375	-48.4			
10						

SALEM, IL
994 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	174	1.3	[illegible]	32	[illegible]
1000	10	200	-2.3	-5.7		
950	31	536	.8	-3.0	28	3.3
900	31	970	-.4	-4.3	28	5.4
850	31	1,427	-.9	-9.6	28	6.8
800	31	1,912	-1.3	[illegible]	28	8.6
750	31	2,424	-3.4	[illegible]	27	10.4
700	31	2,967	-5.8	-18.5	28	13.5
650	31	3,545	-8.4	[illegible]	27	16.7
600	31	4,162	-11.7	-23.9	27	19.2
550	31	4,824	[illegible]	-28.2	[illegible]	[illegible]
500	31	5,536	-20.2	-33.2	27	22.4
450	31	6,309	-25.7	-38.7	27	24.7
400	31	7,151	-32.1	-42.9	27	27.4
350	31	8,083	-39.1	-48.5	27	27.9
300	31	9,120	-46.7		[illegible]	[illegible]
250	31	10,313	-52.4		[illegible]	35.1
200	31	11,742	-55.5		[illegible]	34.1
175	31	12,592	-55.2		26	[illegible]
150	31	13,573	-55.7		[illegible]	[illegible]
125	30	14,721	-56.9		26	24.3
100	30	16,129	-58.6		26	[illegible]
80	25	17,519	-60.3		27	[illegible]
70	25	18,351	[illegible]		27	[illegible]
60	24	19,313	-60.5		27	[illegible]
50	24	20,450	-60.0		30	[illegible]
40	23	21,850	[illegible]		[illegible]	[illegible]
30	22	23,669	-57.1		[illegible]	[illegible]
25	22	24,827	-55.5		[illegible]	[illegible]
20	19	26,264	-53.8		[illegible]	[illegible]
15	19	28,125	-50.9		[illegible]	[illegible]
10	5	30,692	-48.8			

SALEM, OR
1007 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1000	27	138	5.3	.9	21	.9
950	31	539	3.4	-1.2	22	1.9
900	31	970	[illegible]	[illegible]	[illegible]	3.5
850	31	1,433	[illegible]	[illegible]	[illegible]	4.9
800	31	1,914	[illegible]	[illegible]	[illegible]	6.5
750	31	2,421	-6.0	-15.8	25	8.3
700	31	[illegible]	-9.2	-19.5	27	9.3
650	31	3,528	-12.3	-20.7	27	9.7
600	31	4,135	-16.1	-23.9	27	10.7
550	31	4,785	[illegible]	[illegible]	[illegible]	[illegible]
500	31	5,485	[illegible]	[illegible]	[illegible]	13.6
450	31	6,243	-30.1	[illegible]	28	14.9
400	31	7,071	[illegible]	-43.0	[illegible]	17.1
350	31	7,987	[illegible]	[illegible]	[illegible]	19.0
300	31	9,009	[illegible]		[illegible]	20.3
250	31	10,189	[illegible]		[illegible]	[illegible]
200	31	11,616	[illegible]		[illegible]	[illegible]
175	[illegible]	12,470	[illegible]		29	13.6
150	31	13,471	[illegible]		[illegible]	13.2
125	[illegible]	14,644	[illegible]		[illegible]	11.0
100	[illegible]	16,071	[illegible]		[illegible]	9.2
80	[illegible]	17,491	-56.8		[illegible]	5.0
70	[illegible]	18,338	[illegible]		[illegible]	3.9
60	[illegible]	19,314	[illegible]		[illegible]	2.4
50	[illegible]	20,468	[illegible]		[illegible]	1.7
40	[illegible]	21,882	[illegible]		[illegible]	3.7
30	[illegible]	23,704	[illegible]		[illegible]	6.7
25	[illegible]	24,864	[illegible]		[illegible]	8.3
20	[illegible]	[illegible]	[illegible]		[illegible]	9.7
15	[illegible]	28,133	[illegible]		[illegible]	11.7
10	[illegible]	30,728	[illegible]			

RAWINSONDE DATA

Average monthly values

SALT LAKE CITY, UT
867 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	1,288	2.8	-2.6	18	2.2
1000						
950						
900						
850	30	1,451	2.4	-5.4	19	2.7
800	31	1,934	-.3	-8.1	21	3.8
750	31	2,447	-4.1	-10.0	24	3.8
700	31	2,988	-7.9	-13.2	27	5.1
650	31	3,560	-11.7	-17.2	28	7.1
600	31	4,169	-15.4	-21.6	28	8.9
550	31	4,821	-19.7	-25.9	27	10.0
500	31	5,522	-24.4	-31.1	27	10.7
450	31	6,282	-29.8	-36.9	27	12.7
400	31	7,111	-35.9	-43.6	28	15.1
350	31	8,029	-42.8	-45.7	28	17.8
300	31	9,148	-50.3		28	20.2
250	31	10,223	-55.5		28	23.3
200	31	11,644	-55.3		27	21.0
175	31	12,500	-53.5		27	19.0
150	30	13,493	-53.9		27	17.3
125	30	14,660	-55.7		27	15.2
100	30	16,075	-57.3		27	11.7
80	30	17,483	-58.7		27	7.2
70	30	18,319	-59.7		27	6.0
60	30	19,284	-59.6		27	3.6
50	29	20,422	-59.5		30	1.9
40	29	21,821	-58.7		34	.9
30	28	23,635	-57.7		06	3.5
25	25	24,788	-57.1		06	5.0
20	23	26,205	-56.2		07	5.8
15	19	28,036	-54.6		07	5.9
10						

SAN DIEGO, CA
[illegible] MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	124	9.6	7.1	14	.9
1000	19	149	10.1	6.1	10	.7
950	31	555	9.5	2.3	23	1.4
900	31	1,002	7.7	-3.0	26	2.5
850	31	1,471	5.6	-6.9	28	4.1
800	31	1,965	3.4	-10.6	28	6.0
750	31	2,486	1.1	-13.8	28	8.2
700	31	3,039	-1.2	-17.9	28	9.7
650	31	3,627	-4.0	-21.6	28	11.9
600	31	4,254	-7.4	-25.2	28	14.9
550	31	4,926	-11.8	-29.4	28	17.0
500	31	5,649	-17.1	-34.1	28	18.8
450	31	6,430	-22.9	-38.1	28	20.2
400	31	7,282	-29.4	-43.3	28	22.4
350	30	8,223	-36.6	-48.2	28	24.5
300	30	9,270	-44.5		27	27.0
250	30	10,470	-52.1		27	30.2
200	30	11,894	-57.6		27	29.8
175	30	12,735	-57.9		27	30.7
150	30	13,707	-58.3		27	30.4
125	29	14,851	-60.2		27	25.8
100	29	16,235	-62.8		27	19.4
80	29	17,606	-64.1		27	13.6
70	29	18,425	-63.6		27	10.2
60	29	19,371	-63.6		27	6.8
50	28	20,495	-61.8		29	4.1
40	27	21,880	-60.3		29	2.1
30	26	23,681	-58.3		02	.7
25	26	24,831	-57.1		04	1.3
20	24	26,252	-54.5		33	1.5
15	19	28,098	-52.6		28	2.5
10						

SAN JUAN, P. R.
1017 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	6	21.5	19.6	11	2.5
1000	31	154	22.3	18.3	11	4.1
950	31	599	19.3	15.7	11	6.2
900	31	1,063	16.1	12.2	11	5.9
850	31	1,547	13.0	8.1	11	5.3
800	31	2,054	10.4	2.2	10	4.9
750	31	2,591	9.4	-6.5	10	4.3
700	31	3,161	7.3	-11.6	09	3.6
650	31	3,768	4.5	-13.8	09	2.5
600	31	4,415	.7	-18.6	06	1.9
550	31	5,108	-3.6	-23.1	01	1.7
500	31	5,854	-8.3	-27.5	35	2.9
450	31	6,663	-13.7	-32.3	33	5.2
400	31	7,547	-20.5	-37.9	32	8.6
350	31	8,524	-28.0	-44.0	32	11.9
300	31	9,608	-36.6	-50.9	32	15.9
250	31	10,846	-45.9		31	19.2
200	31	12,302	-54.9		30	23.5
175	31	13,147	-59.2		31	24.4
150	31	14,102	-63.9		30	22.3
125	31	15,205	-69.6		30	18.8
100	31	16,518	-74.8		30	13.4
80	31	17,805	-76.9		32	6.5
70	31	18,578	-73.7		34	4.0
60	31	19,490	-68.1		01	1.2
50	31	20,602	-62.3		06	2.0
40	30	21,991	-59.2		07	4.5
30	29	23,799	-56.7		09	6.0
25	28	24,964	-54.2		10	6.3
20	28	26,409	-50.5		12	4.2
15	23	28,305	-45.9		22	2.7
10	13	31,005	-42.4		27	9.9

SAN NICOLAS, AK
986 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)

* SAULT STE MARIE, MI
988 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	221	-8.9	-13.5	06	1.5
1000						
950	31	528	-7.4	-12.9	05	1.1
900	31	949	-8.5	-14.0	35	.8
850	31	1,391	-9.8	-16.2	30	2.4
800	31	1,858	-11.3	-18.1	29	4.0
750	31	2,352	-13.0	-20.2	29	5.8
700	31	2,876	-14.8	-22.9	28	7.6
650	31	3,435	-16.8	-24.3	28	9.9
600	31	4,033	-19.8	-27.6	28	11.8
550	31	4,674	-23.5	-31.2	28	13.4
500	31	5,365	-27.9	-35.0	28	15.7
450	31	6,114	-33.1	-39.1	28	18.1
400	31	6,932	-39.0	-43.4	28	20.5
350	31	7,839	-45.0	-46.3	27	22.9
300	31	8,853	-50.4		27	26.6
250	31	10,033	-53.3		26	27.7
200	31	11,473	-51.5		27	23.2
175	31	12,343	-50.1		27	21.3
150	31	13,349	-50.6		28	16.6
125	31	14,536	-51.5		28	15.4
100	31	15,980	-52.9		28	12.9
80	31	17,414	-54.0		28	9.0
70	31	18,271	-54.8		28	8.5
60	31	19,256	-55.2		29	6.5
50	31	20,420	-55.3		29	3.1
40	31	21,843	-55.4		35	1.5
30	30	23,672	-55.5		05	4.2
25	30	24,835	-55.3		06	5.3
20	27	26,258	-55.1		07	6.9
15	26	28,101	-54.2		07	7.0
10	[illegible]	30,602	-54.6			

* SHREVEPORT, LA
1005 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	79	10.1	5.7	14	1.2
1000	24	141	8.0	2.5	10	1.7
950	31	546	10.0	2.6	20	3.5
900	31	997	9.9	-1.5	23	6.3
850	31	1,471	9.2	-4.5	25	9.1
800	31	1,972	7.7	-7.6	26	11.1
750	31	2,502	5.4	-10.2	26	13.4
700	31	3,063	2.1	-13.3	26	15.8
650	31	3,657	-1.3	-17.8	26	18.3
600	31	4,290	-5.7	-21.2	26	20.3
550	31	4,966	-10.3	-24.5	26	23.0
500	31	5,693	-15.4	-29.5	26	25.3
450	31	6,481	-20.6	-35.0	26	28.7
400	31	7,341	-26.9	-39.4	26	31.0
350	31	8,294	-33.9	-44.8	27	33.4
300	31	9,352	-42.3	-44.3	27	34.9
250	31	10,561	-51.3		27	38.6
200	31	11,984	-59.0		27	41.0
175	31	12,818	-59.9		27	41.1
150	31	13,781	-60.5		27	37.0
125	31	14,910	-63.2		27	34.5
100	29	16,273	-66.2		27	27.2
80	26	17,621	-67.3		27	20.4
70	25	18,426	-67.7		27	16.4
60	24	19,355	-65.8		27	10.9
50	[illegible]	20,467	-63.2		28	5.1
40	21	21,850	-60.3		30	2.4
30	19	23,655	-58.7		29	3.0
25	18	24,805	-57.3		29	4.9
20	16	26,216	-54.8		30	6.1
15	16	28,069	-51.9		28	4.1
10	13	30,736	-45.6		26	8.9
7	8	33,122	-39.4			

SPOKANE, WA
928 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	720	-1.1	-4.7	20	2.4
1000						
950						
900	31	963	.0	-5.8	22	3.5
850	31	1,420	-2.2	-8.8	23	4.3
800	31	1,899	-5.2	-11.0	24	4.7
750	31	2,453	-8.7	-13.9	25	5.3
700	31	2,935	-11.8	-19.8	26	6.2
650	31	3,499	-14.9	-23.2	27	7.5
600	31	4,101	-18.6	-27.0	27	9.0
550	31	4,744	-22.7	-31.3	27	10.1
500	31	5,437	-27.3	-36.2	28	11.3
450	31	6,188	-32.3	-41.1	28	14.0
400	31	7,010	-37.8	-44.9	28	16.7
350	31	7,920	-44.5		28	18.7
300	31	8,934	-51.2		29	21.4
250	31	10,108	-54.5		29	20.9
200	31	11,542	-52.3		29	15.9
175	31	12,409	-50.7		29	13.9
150	31	13,414	-51.2		29	10.9
125	31	14,596	-52.2		29	10.6
100	31	16,037	-53.5		28	7.3
80	31	17,471	-54.6		29	4.7
70	31	18,324	-55.0		30	4.1
60	31	19,309	-55.4		33	2.3
50	31	20,471	-55.6		03	1.9
40	31	21,893	-55.4		05	3.8
30	27	23,732	-54.6		06	6.4
25	25	24,901	-54.2		07	9.0
20	20	26,333	-53.0		07	10.0
15	13	28,190	-52.7		07	12.6
10	5	30,853	-51.0			
7						

* ISLE DEL CISNE
1013 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	10	24.8	21.0	11	5.5
1000	31	119	24.8	20.8	11	6.2
950	31	567	20.8	18.5	11	8.0
900	31	1,034	18.0	12.9	12	8.0
850	31	1,522	14.8	6.6	12	7.9
800	31	2,033	12.4	1.3	12	6.2
750	31	2,573	11.2	-4.6	11	5.2
700	31	3,147	9.2	-9.8	11	3.6
650	31	3,759	6.7	-12.6	11	3.0
600	31	4,412	3.3	-16.4	10	1.8
550	31	5,112	-.8	-21.0	08	.8
500	31	5,865	-5.9	-25.6	34	1.6
450	31	6,682	-11.6	-30.6	32	3.0
400	31	7,573	-18.2	-35.5	30	5.3
350	31	8,559	-25.7	-41.8	29	8.4
300	31	9,652	-34.9	-49.7	29	12.7
250	31	10,898	-44.7		29	16.6
200	31	12,355	-55.8		28	20.2
175	31	13,193	-61.7		27	20.4
150	31	14,135	-67.2		28	19.3
125	29	15,222	-71.9		28	14.7
100	27	16,519	-77.2		28	8.5
80	27	17,792	-78.6		30	1.6
70	27	18,556	-76.8		06	.9
60	27	19,458	-69.8		08	1.0
50	26	20,566	-62.9		07	2.2
40	25	21,950	-60.5		07	3.7
30	25	23,755	-57.3		07	5.0
25	25	24,916	-54.4		08	4.2
20	25	26,363	-49.3		07	1.7
15	18	28,251	-45.7		24	1.9
10	10	30,955	-42.5			
7						

TAMPA, FL
1016 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	8	16.0	13.5	12	1.0
1000	31	145	17.2	12.8	14	1.6
950	31	583	16.2	9.4	21	3.8
900	31	1,042	14.7	4.5	24	5.3
850	31	1,524	12.7	1.9	25	6.8
800	31	2,031	10.3	-2.3	25	8.3
750	31	2,566	8.1	-8.4	26	8.8
700	31	3,133	5.7	-13.7	26	10.9
650	31	3,735	2.1	-16.5	27	12.2
600	31	4,376	-1.8	-19.5	27	14.1
550	31	5,063	-6.2	-23.9	27	17.3
500	31	5,800	-11.7	-28.4	27	18.9
450	31	6,599	-17.5	-33.0	27	22.5
400	31	7,469	-24.1	-37.4	27	25.2
350	31	8,432	-31.5	-43.2	27	26.9
300	31	9,501	-40.1	-47.5	28	28.8
250	31	10,720	-49.6		28	33.8
200	31	12,149	-58.7		28	37.2
175	31	12,984	-60.7		28	36.5
150	31	13,938	-63.0		28	34.4
125	31	15,051	-66.7		28	30.0
100	31	16,388	-69.9		28	23.6
80	31	17,708	-72.4		27	15.3
70	31	18,496	-70.9		27	11.1
60	28	19,414	-68.3		28	7.0
50	27	20,521	-63.5		28	5.5
40	27	21,902	-60.4		28	4.8
30	25	23,709	-57.5		28	6.7
25	24	24,868	-55.4		30	4.8
20	22	26,303	-53.2		27	3.5
15	19	28,179	-49.0		26	7.4
10	9	30,896	-40.0			
7						

TOPEKA, KS
983 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	268	-.5	-4.0	35	.3
1000						
950	31	542	-.4	-5.1	29	.4
900	31	974	-.7	-8.5	26	2.6
850	31	1,431	-.6	-10.3	27	5.3
800	31	1,915	-1.3	-11.8	27	7.3
750	31	2,428	-3.0	-13.6	27	9.3
700	31	2,973	-5.1	-15.6	28	11.7
650	31	3,552	-8.2	-19.8	28	13.8
600	31	4,169	-11.8	-23.8	28	16.2
550	31	4,830	-16.1	-26.9	27	17.9
500	31	5,541	-21.3	-31.5	27	19.5
450	31	6,309	-27.0	-36.0	27	21.6
400	31	7,148	-33.3	-41.5	26	23.5
350	31	8,074	-40.3	-45.5	26	25.9
300	31	9,107	-47.6		27	30.2
250	31	10,293	-54.1		27	36.6
200	31	11,714	-56.6		27	34.9
175	31	12,562	-56.0		27	32.6
150	31	13,545	-55.3		27	27.9
125	31	14,706	-56.4		27	23.5
100	31	16,114	-58.8		27	18.4
80	31	17,510	-60.5		27	13.0
70	30	18,341	-60.9		27	11.0
60	30	19,299	-61.3		28	7.0
50	29	20,432	-60.4		28	3.7
40	28	21,828	-59.3		32	1.8
30	26	23,640	-57.6		05	3.1
25	25	24,796	-56.6		05	3.4
20	25	26,216	-55.4		06	4.4
15	24	28,061	-53.1		05	4.0
10	18	30,669	-50.6			
7						

TRUK, CAROLINE IS.
+ 1011 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	2	28.2	23.4	05	4.4
1000	31	99	27.1	22.5	06	5.6
950	31	551	23.4	20.0	07	8.6
900	31	1,022	20.3	15.5	08	8.5
850	31	1,515	17.5	11.8	09	7.2
800	31	2,032	15.4	6.0	10	6.6
750	31	2,578	13.3	2.6	09	9.6
700	31	3,156	10.4	-2.9	09	5.7
650	31	3,770	7.2	-5.7	09	6.0
600	31	4,425	3.9	-10.8	09	6.6
550	31	5,127	.1	-15.8	09	7.3
500	31	5,885	-4.3	-18.9	09	7.4
450	31	6,708	-8.6	-24.2	09	7.9
400	31	7,612	-14.6	-30.2	08	7.2
350	31	8,613	-21.2	-36.4	08	6.3
300	31	9,729	-29.8	-43.9	09	4.2
250	31	[illegible]	-40.0	-50.8	12	4.1
200	31	12,485	-52.5		13	4.8
175	31	13,334	-59.5		12	4.8
150	31	14,281	-67.2		10	5.8
125	31	15,360	-75.2		09	7.6
100	31	16,626	-83.1		09	10.2
80	30	17,865	-79.7		09	7.4
70	30	18,634	-74.4		09	4.5
60	29	19,540	-70.0		09	7.2
50	29	20,640	-65.2		09	14.3
40	28	[illegible]	-60.1		09	22.0
30	26	23,941	-54.2		09	14.5
25	25	25,020	-50.6		10	4.7
20	25	26,486	-47.2		26	4.5
15	23	28,398	-45.0		27	10.4
10	[illegible]	31,119	-42.5			
7						

* TUCSON, AZ
923 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	30	789	7.8	-1.1	17	1.6
1000						
950						
900	30	994	10.8	-4.4	19	1.9
850	30	1,468	8.2	-6.8	23	3.1
800	30	1,966	4.8	-8.9	24	5.5
750	30	2,489	1.7	-11.5	25	8.1
700	30	3,041	-1.8	-15.4	25	10.1
650	30	3,628	-4.5	-20.6	26	13.1
600	30	4,253	-8.4	-24.6	26	15.7
550	30	4,923	-12.6	-28.6	26	17.7
500	30	5,643	-17.7	-32.0	27	19.9
450	30	6,423	-23.4	-37.5	26	22.6
400	30	7,274	-29.8	-42.8	26	25.0
350	30	8,216	-36.1	-47.2	26	29.3
300	30	9,267	-43.6		26	33.0
250	30	10,470	-51.6		26	35.8
200	30	11,896	-57.2		26	37.7
175	30	12,742	-57.1		26	36.0
150	30	13,715	-58.4		26	33.1
125	30	14,857	-60.4		26	27.0
100	29	16,235	-63.7		26	20.3
80	27	17,598	-64.9		26	14.3
70	27	18,414	-64.3		26	10.0
60	25	19,357	-63.9		27	5.3
50	25	20,478	-62.7		26	2.7
40	23	21,862	-60.9		31	2.3
30	23	23,661	-58.7		30	1.5
25	23	24,810	-57.5		36	1.4
20	19	26,222	-56.0		36	.9
15	12	28,057	-53.1		34	2.1
10						
7						

* VANDENBERG AFB, CA
1005 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	30	100	8.7	5.5	33	.6
1000	25	153	8.8	4.9	34	2.2
950	30	564	7.9	2.3	32	3.6
900	30	1,009	6.0	-1.2	30	3.2
850	30	1,476	4.2	-5.8	28	4.5
800	30	1,967	2.0	-8.7	28	6.6
750	30	2,486	-.4	-11.2	28	9.3
700	30	3,035	-2.7	-14.4	28	11.0
650	30	3,621	-5.1	-17.7	28	12.8
600	30	4,245	-8.6	-23.0	27	14.9
550	30	4,914	-13.0	-27.9	27	16.9
500	30	5,633	-18.2	-31.7	27	18.4
450	30	6,412	-23.9	-36.0	27	20.3
400	30	7,260	-30.5	-42.5	27	23.2
350	30	8,199	-37.4	-48.2	27	24.4
300	30	9,242	-45.4		27	26.3
250	30	10,437	-53.2		26	28.8
200	30	11,856	-58.1		26	29.9
175	30	12,697	-57.6		26	30.6
150	30	13,671	-57.9		26	28.0
125	30	14,816	-59.5		26	23.3
100	30	16,203	-62.3		26	18.8
80	29	17,579	-62.9		27	13.2
70	29	18,401	-63.0		27	9.3
60	29	19,351	-62.5		27	5.4
50	27	20,473	-62.3		29	4.2
40	26	21,856	-60.7		32	1.3
30	25	23,657	-58.5		03	1.7
25	25	24,807	-57.4		05	3.6
20	23	26,225	-55.6		06	5.3
15	19	28,060	-53.6		05	2.6
10	16	30,706	-48.3		26	1.2
7	9	33,101	-44.4			

VICTORIA, TX
1008 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	33	13.9	11.2	09	1.2
1000	28	113	14.0	11.1	08	1.9
950	31	538	14.5	8.3	16	4.1
900	31	996	14.0	4.7	20	5.7
850	31	1,478	13.0	.1	22	6.7
800	31	1,986	11.4	-2.9	23	8.0
750	31	2,523	9.2	-9.8	25	9.5
700	31	3,091	6.4	-14.1	25	11.6
650	31	3,695	2.6	-17.2	25	13.0
600	31	4,336	-2.3	-19.9	25	14.7
550	31	5,020	-7.5	-24.5	26	16.9
500	31	5,754	-12.9	-28.9	26	20.3
450	31	6,549	-18.8	-33.4	26	22.5
400	31	7,415	-25.2	-37.7	26	26.5
350	31	8,373	-32.5	-43.2	26	29.6
300	31	9,439	-40.8	-45.8	26	33.3
250	31	10,654	-50.1		26	39.3
200	31	12,081	-58.7		26	42.8
175	31	12,917	-60.3		26	43.4
150	31	13,874	-62.3		26	38.6
125	31	14,990	-66.1		26	33.8
100	31	16,331	-69.5		27	25.5
80	31	17,654	-71.8		27	16.6
70	31	18,443	-71.3		26	10.7
60	30	19,359	-68.7		27	8.6
50	30	20,463	-64.3		29	5.2
40	29	21,839	-61.2		28	4.1
30	28	23,641	-58.3		28	6.2
25	28	24,792	-57.0		29	6.2
20	27	26,212	-54.8		28	6.6
15	25	28,067	-51.1		26	7.5
10	17	30,743	-43.9		26	14.2
7	[illegible]	33,169	-36.6			

* WAKE IS., PACIFIC AREA
1015 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	5	25.0	21.1	08	4.4
1000	31	139	24.3	19.1	09	4.9
950	31	586	20.6	17.1	09	5.4
900	31	1,052	17.1	13.5	10	4.9
850	31	1,538	13.8	10.1	10	4.5
800	31	2,049	11.6	5.1	09	3.9
750	31	2,587	9.9	-2.0	08	2.8
700	31	3,159	8.0	-10.1	08	1.6
650	31	3,767	5.5	-15.0	29	.5
600	31	4,417	2.0	-17.7	27	2.8
550	31	5,113	-2.4	-22.0	27	4.6
500	31	5,862	-7.8	-26.2	28	7.2
450	31	6,673	-13.0	-30.2	28	9.7
400	31	7,560	-19.1	-35.7	29	12.7
350	31	8,545	-25.3	-41.6	29	16.6
300	31	9,643	-33.0	-48.1	30	22.1
250	30	10,902	-41.8		30	25.5
200	29	12,377	-53.0		30	27.2
175	29	13,225	-59.4		30	25.5
150	29	14,174	-66.7		29	23.4
125	26	15,255	-73.9		29	20.8
100	26	16,534	-80.2		29	13.1
80	26	17,789	-79.6		28	4.8
70	25	18,550	-76.1		25	2.0
60	25	19,452	-70.2		14	1.4
50	25	20,552	-64.6		11	2.1
40	24	21,931	-61.4		11	2.9
30	24	23,726	-58.6		08	2.3
25	23	24,879	-55.9		05	2.2
20	23	26,311	-52.3		36	1.7
15	22	28,192	-49.1		30	4.7
10	18	30,872	-45.2		27	11.7
7						

RAWINSONDE DATA

Average monthly values

MARCH 1975

* WALLOPS ISLAND, VA NASA
1015 MB

Standard isobaric surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	31	4	4.3	-.3	32	2.1
1000	28	135	4.6	-2.5	33	2.5
950	31	542	3.6	-4.4	30	4.5
900	31	980	2.3	-7.3	29	6.9
850	31	1,441	.9	-8.2	28	7.8
800	31	1,927	-.5	-10.5	27	9.3
750	31	2,442	-2.2	-12.8	27	11.7
700	31	2,987	-4.9	-16.0	27	14.8
650	31	3,567	-7.7	-18.2	27	17.0
600	[illegible]	4,186	-11.3	-20.8	27	18.6
550	30	4,849	-15.4	-24.5	27	20.5
500	31	5,552	-20.2	-28.8	27	23.0
450	30	6,335	-25.6	-33.3	27	24.3
400	31	7,179	-31.6	-39.0	27	28.1
350	30	[illegible]	-38.1	-42.5	27	28.1
300	31	9,156	-45.0		27	32.0
250	31	10,358	-51.2		27	36.4
200	30	11,789	-56.7		27	38.4
175	31	12,636	-56.4		28	35.5
150	31	13,617	-56.0		26	32.1
125	31	14,772	-57.5		28	27.3
100	31	16,177	-59.1		28	22.0
80	31	17,569	[illegible]		28	16.3
70	31	18,399	-61.4		28	12.3
60	28	19,356	-60.8		28	7.7
50	28	20,492	[illegible]		29	4.5
40	27	21,885	-59.4		31	2.6
30	26	23,691	-57.8		35	1.6
25	25	24,842	-56.9		03	1.6
20	22	26,259	-55.5		04	1.7
15	17	28,110	-52.7		32	1.1
10	6	30,793	-47.4			
7						

WASHINGTON DULLES INT. AP
1005 MB

Standard isobaric surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	31	85	1.4	-3.6	31	1.6
1000	22	162	.8	-5.9	31	1.8
950	31	541	1.2	-6.2	29	3.9
900	31	975	[illegible]	-7.3	28	6.0
850	31	1,432	-1.2	-8.4	28	8.4
800	31	1,915	-2.5	-10.5	28	9.8
750	31	2,426	-3.6	-13.8	28	11.5
700	31	2,970	-5.9	-17.0	27	13.8
650	31	3,548	-8.6	-18.8	27	16.8
600	31	4,165	-12.1	-21.5	27	19.4
550	31	4,825	-16.2	-26.8	27	20.4
500	31	5,536	-21.1	-31.4	27	22.0
450	31	6,305	-26.6	-35.1	27	23.4
400	31	7,145	-32.6	-39.0	27	26.1
350	30	8,068	-39.2	-43.1	27	28.9
300	31	9,106	-46.0		27	32.3
250	30	10,304	-51.7		27	36.7
200	31	11,735	-55.9		27	35.7
175	31	12,586	-54.8		28	30.1
150	30	13,573	-54.6		27	27.9
125	30	14,736	-56.1		27	23.4
100	30	16,146	-58.7		27	17.5
80	30	17,544	-60.2		27	13.6
70	30	18,378	-59.9		28	10.0
60	30	19,341	-60.1		28	8.7
50	30	20,479	-59.7		28	4.9
40	30	21,877	-59.0		31	2.7
30	29	23,690	-57.9		35	1.8
25	29	24,844	-56.6		36	1.6
20	28	26,264	-55.1		02	1.6
15	26	28,108	-52.9		31	2.0
10	16	30,746	-49.1		28	7.6
7	6	33,098	-42.5			

WAYCROSS, GA
1011 MB

Standard isobaric surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	31	44	[illegible]	7.5	30	.4
1000	31	139	11.9	7.5	30	.7
950	31	569	11.4	4.3	26	3.0
900	31	1,021	10.7	-.4	26	6.4
850	31	1,496	9.6	-3.3	26	[illegible]
800	31	1,998	8.0	-5.9	26	12.2
750	31	2,529	5.4	-8.0	26	14.1
700	31	3,090	3.0	-13.4	26	16.5
650	30	3,685	[illegible]	-17.4	27	18.5
600	31	4,320	-4.3	-20.7	27	20.4
550	30	5,000	-9.0	-24.3	27	23.6
500	31	5,730	-14.1	-27.8	27	26.2
450	31	6,521	-19.9	-31.5	27	28.4
400	31	7,384	-26.0	-38.6	27	31.1
350	30	8,340	-33.4	-44.6	27	32.8
300	31	9,400	-41.6	-46.7	27	36.0
250	30	10,612	-50.7		28	39.3
200	30	12,040	-58.2		28	42.8
175	31	12,878	-59.5		27	42.1
150	30	13,838	-61.5		28	38.7
125	30	14,963	-63.4		27	36.0
100	29	16,323	-66.6		27	25.5
80	29	17,665	-68.1		27	16.7
70	28	18,467	-67.8		27	12.2
60	28	19,399	-65.8		27	7.7
50	28	20,513	-63.0		28	4.9
40	27	21,895	-60.1		31	3.6
30	26	23,707	-57.5		29	3.9
25	26	24,864	-55.5		31	4.4
20	24	26,293	-53.1		28	2.5
15	21	28,154	-49.4		26	6.6
10	8	30,833	-42.8			

WINNEMUCCA, NV
865 MB

Standard isobaric surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	31	1,312	1.4	-5.8	19	.5
850	31	1,449	1.5	-5.7	21	.8
800	31	1,936	-1.1	-8.2	25	2.8
750	31	2,448	-4.7	-10.9	26	4.9
700	31	2,987	-8.5	-14.0	26	7.6
650	31	3,558	-11.8	-18.4	27	9.6
600	31	4,167	-15.2	-22.3	27	10.9
550	31	4,821	-18.7	-27.3	28	11.6
500	31	5,525	-23.2	-32.1	29	13.0
450	31	6,288	-28.8	-36.6	29	13.7
400	31	7,120	-35.0	-41.6	29	16.3
350	31	8,040	-42.3	-47.6	29	18.5
300	31	9,063	-49.6		29	20.9
250	31	10,240	-55.3		29	23.3
200	31	11,659	-56.2		29	21.1
175	30	12,510	-53.8		29	18.5
150	30	13,500	-54.1		29	[illegible]
125	28	14,669	-55.9		28	14.0
100	25	16,084	-57.3		28	10.5
80	24	17,493	-58.9		28	6.8
70	23	18,328	-58.6		28	4.8
60	23	19,295	-59.8		29	2.8
50	22	20,435	-59.1		34	1.8
40	21	21,838	-58.3		06	2.8
30	19	23,658	-57.2		06	4.7
25	16	24,816	-56.7		07	7.3
20	15	26,231	-55.7		07	7.6
15	9	28,084	-53.9			

WINSLOW, AZ
84[illegible] MB

Standard isobaric surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	31	1,487	.5	-4.8	[illegible]	[illegible]
850	14	1,513	[illegible]	-6.8	[illegible]	.4
800	31	1,955	.5	-7.8	25	[illegible]
750	31	2,476	-.8	-10.4	26	[illegible]
700	31	[illegible]	-4.1	-14.4	[illegible]	[illegible]
650	31	3,602	-7.6	-18.3	[illegible]	[illegible]
600	31	4,221	-11.3	-23.1	[illegible]	[illegible]
550	31	4,883	-15.6	-26.9	[illegible]	[illegible]
500	31	5,595	-20.8	-31.6	[illegible]	[illegible]
450	31	6,366	-26.1	-37.4	[illegible]	[illegible]
400	31	7,207	[illegible]	-42.5	[illegible]	[illegible]
350	31	[illegible]	-38.9	[illegible]	[illegible]	[illegible]
300	31	9,179	-45.4		[illegible]	[illegible]
250	31	10,376	-52.4		[illegible]	[illegible]
200	31	11,805	-55.6		[illegible]	[illegible]
175	31	12,657	-55.5		[illegible]	[illegible]
150	30	13,638	-55.3		[illegible]	[illegible]
125	30	14,794	[illegible]		[illegible]	[illegible]
100	29	[illegible]	-60.4		[illegible]	[illegible]
80	29	17,573	-62.3		25	[illegible]
70	28	18,396	-62.1		[illegible]	[illegible]
60	26	19,350	-61.9		[illegible]	[illegible]
50	[illegible]	[illegible]	-61.3		28	[illegible]
40	27	21,871	-60.2		31	[illegible]
30	19	23,676	[illegible]		[illegible]	1.9
25	[illegible]	24,827	-57.3		[illegible]	[illegible]
20	17	26,244	-55.0		[illegible]	1.8
15	12	28,088	-53.5		35	1.6

YAKUTAT, AK
1009 MB

Standard isobaric surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	31	12	-5.2	-7.8	09	1.2
1000	23	124	-.1	-8.4	10	2.3
950	31	491	-1.9	-9.7	12	3.0
900	31	919	-4.9	-11.7	14	3.2
850	31	1,366	-8.1	-14.4	14	2.7
800	31	1,834	-10.9	-17.0	14	2.4
750	31	2,327	-14.0	-20.2	15	2.6
700	31	2,848	-17.3	-23.6	17	2.7
650	31	3,400	-20.6	-27.9	18	3.6
600	31	3,988	-24.4	-31.8	19	3.7
550	31	4,616	-28.9	-36.4	22	4.3
500	31	5,291	-33.9	[illegible]	22	4.3
450	31	6,022	-38.6	-42.2	23	4.8
400	31	6,823	-43.1	-42.6	24	6.6
350	31	7,716	-47.5		28	7.3
300	31	8,724	-51.0		28	8.9
250	31	9,912	-49.9		28	10.5
200	31	11,378	-47.6		27	7.9
175	31	12,262	-47.1		27	8.3
150	31	13,283	-47.4		27	7.4
125	31	14,487	-48.1		27	6.7
100	31	15,957	-48.1		27	5.0
80	31	17,424	-49.4		27	3.1
70	31	[illegible]	-50.0		27	2.7
60	31	19,306	-50.1		28	1.8
50	31	20,497	-49.9		30	.8
40	31	21,957	-49.9		05	1.4
30	[illegible]	23,841	-49.3		07	3.8
25	27	25,038	-49.1		07	5.8
20	[illegible]	26,502	-48.8		07	6.7
15	[illegible]	28,386	-48.2		08	9.0
10	[illegible]	31,079	-45.6			

* YAP, CAROLINE IS.
1009 MB

Standard isobaric surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	31	14	27.9	23.2	08	4.3
1000	31	93	26.4	22.3	08	5.4
950	31	545	22.7	20.2	08	8.3
900	31	1,015	19.8	15.8	08	8.3
850	31	1,507	17.1	10.9	08	7.3
800	31	2,023	15.4	4.6	08	6.5
750	31	2,569	13.2	-1.6	08	6.5
700	31	3,146	10.5	-6.2	08	6.1
650	31	3,760	7.3	-9.9	08	6.1
600	31	4,414	3.5	-14.2	09	6.6
550	31	5,115	-.7	-17.2	09	7.4
500	31	5,870	-4.7	-21.8	09	7.7
450	31	6,692	-9.5	-26.9	09	6.9
400	31	7,592	-15.1	-31.6	09	7.1
350	31	8,592	-21.8	-37.2	09	6.1
300	31	9,705	-30.5	-42.8	[illegible]	5.7
250	31	10,973	-40.9	-51.6	12	5.8
200	31	12,450	-53.4		13	7.6
175	31	13,296	-60.5		13	8.9
150	31	14,238	-68.4		12	10.3
125	31	15,310	-76.3		11	12.2
100	31	[illegible]	-83.1		11	12.1
80	31	17,820	-79.8		09	4.3
70	31	18,586	-74.9		08	4.4
60	31	19,491	-70.1		[illegible]	7.3
50	31	20,591	-64.7		[illegible]	12.7
40	31	21,968	-60.4		[illegible]	18.5
30	[illegible]	23,784	-55.0		09	14.5
25	28	24,957	-51.3		[illegible]	6.6
20	25	26,413	-47.5		[illegible]	3.0
15	24	28,315	-45.6		[illegible]	[illegible]
10	18	31,022	-42.5		[illegible]	12.4

YUCCA FLAT, NV
877 MB

Standard isobaric surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	31	1,198	1.5	-6.5	24	1.0
850	31	1,481	4.6	-7.5	26	1.4
800	31	1,943	1.7	-10.0	24	2.5
750	31	[illegible]	-1.8	-11.7	25	2.9
700	31	3,006	-5.1	-15.1	26	4.7
650	31	3,584	-8.3	-19.5	26	7.1
600	31	4,202	-11.8	-23.5	27	10.1
550	31	4,863	[illegible]	-28.2	28	12.5
500	31	5,576	-20.4	-32.4	28	13.0
450	31	6,347	-26.3	-37.3	28	14.9
400	30	7,182	-32.9	-42.6	28	16.3
350	30	8,111	-39.8	-46.4	28	18.5
300	30	9,145	-47.0		28	21.7
250	30	10,335	-53.4		28	25.2
200	30	11,755	-57.4		27	26.0
175	30	12,601	-56.2		28	25.2
150	[illegible]	13,583	-55.7		28	23.2
125	28	14,735	-56.5		28	18.4
100	[illegible]	16,144	-58.7		27	13.5
80	[illegible]	17,544	-60.0		27	10.7
70	[illegible]	18,391	-60.7		27	7.3
60	[illegible]	19,337	-60.7		29	5.1
50	[illegible]	20,472	-60.6		27	2.6
40	[illegible]	21,865	-59.6		32	1.5
30	[illegible]	23,680	[illegible]		06	2.4
25	[illegible]	24,841	-57.1			
20	7	26,252	-56.1			
15	[illegible]	28,104	-53.8			

SOLAR RADIATION INTENSITIES

Tabulated in langleys per minute on a surface normal to the direction of the sun.

ALBUQUERQUE, N. MEX.

Date	A.M. 78.7°	75.7°	70.7°	60.0°	*	P.M. 60.0°	70.7°	75.7°	78.7°
Air mass	4.19	3.35	2.51	1.67	*	1.67	2.51	3.35	4.19
1	.95	-		(1.24)	(1.40)	(1.29)	1.20	1.09	.93
2		1.09	1.15	1.34	1.42	1.35	1.18	1.07	.95
5	.93	1.03	1.11	1.28	1.44	1.32	1.17	.94	.78
6	.82	.97	1.10	1.25		1.30	1.14	1.02	.89
7	.92	1.02	1.15	1.30		----	--	-	---
9	----		----	----	1.42	---	----		--
10	----		----	--		1.26	---	-	----
13		----	(1.08)	1.23	1.47	----	---		
14	.84	----	----	--	1.41	1.26	1.08	.94	.79
15	----		----	---		----	1.01	.88	.78
16	.84	1.00	1.17	1.29	1.47	1.26	1.07	(.90)	.82
17			---	----	----	1.22	1.02	.92	.79
18	.95		1.12	1.31	1.44		1.14	1.01	.90
19	.95	1.05	1.16	1.28	----		----	(1.01)	
20	.88	1.00	1.11	----	----			----	-
21			----		(1.36)	1.17	.99	.85	.71
22			----		-	----		.89	.78
24	.88	.98	1.11	1.26	1.41	(1.14)	(1.07)	(.94)	(.80)
25	-		----		----	----		.90	.77
27	-		----	----		----	1.01	.89	.78
28	-		----	(1.24)		----			----
30	.89	.99	1.11	1.28	1.47	1.30	1.13	1.01	.90
31	.97	1.06	1.10	1.33	1.41	----	----	----	
Averages	.91	1.02	1.11	1.29	1.44	1.27	1.08	.95	.83

BLUE HILL, MASS.

Date	A.M. 78.7°	75.7°	70.7°	60.0°	*	P.M. 60.0°	70.7°	75.7°	78.7°
Air mass	4.89	3.92	2.94	1.96	*	1.96	2.94	3.92	4.89
3	----	.55	.65	.81	----	----	----	----	----
14		----	---		.97	----	.89	.64	.57
15	.57	----	.77	.93	.99	----		----	----
17	----	----	----	----	----	.89	.76	.64	.57
18	.57	.64	.71	.77	.95	----	----	----	----
21	.60	.67	.79	.95	1.03	.91	.79	.68	.62
27	.62	.68	.78	.90	1.02	.89	.78	.69	.65
28	.66	.76	.84	.91		----	----	----	----
Averages	.60	.65	.76	.88	.99	.90	.81	.66	.59

MADISON, WIS.

Date	A.M. 78.7°	75.7°	70.7°	60.0°	*	P.M. 60.0°	70.7°	75.7°	78.7°
Air mass	4.69	3.75	2.81	1.88	*	1.88	2.81	3.75	4.69
1	----			-- -	S 1.51	----	S 1.05	S .91	----
3	M .79	M .95	M 1.08	M 1.24	M 1.44	M 1.24	M 1.06	M .92	M .84
4	M .80	M .87	M .98	M 1.23	-			----	----
8	----	--	---		S 1.40	S 1.30	S 1.14	S 1.02	S .91
10	S .81	S .92	S 1.04	S 1.21	S 1.41	S 1.24	S 1.06	S .92	S .82
11		---	----	---	----	S 1.20	S 1.05	S .98	S .89
13	M .66	M .75	M .89	M 1.08	M 1.19	----	---	----	----
20	M .40	M .51	M .78	M .92	----	-- -	----	----	----
Averages	.68	.86	.95	1.15	1.32	1.32	1.07	.95	.87

MAUNA LOA OBSERVATORY, HAWAII

Date	A.M. 78.7°	75.7°	70.7°	60.0°	*	P.M. 60.0°	70.7°	75.7°	78.7°
Air mass	3.36	2.69	2.01	1.34	*	1.34	2.01	2.69	3.36
2	1.18	1.26	1.38	1.51	1.65	1.46	1.33	1.22	1.15
3	1.13	1.21	1.33	1.46	1.59	1.44	1.30	1.20	1.12
6	----	----	1.36	1.49	----	1.48	1.34	1.22	1.16
7	1.19	1.26	1.37	1.49	1.60	1.41	1.26	1.15	1.06
8	1.19	1.26	1.37	1.49	---		--	1.17	1.05
10	---		1.38	1.49	----	---	----	----	----
11	1.20	1.27	1.37	1.48	----	----	----	----	----
20	----	----	----	----	1.65	1.50	1.39	1.28	1.20
21	1.21	1.29	1.39	1.51	1.63	1.49	1.38	1.28	1.20
22	1.18	1.29	1.38	1.50	1.59	1.45	1.32	1.23	----
23	1.19	1.27	1.37	1.49	1.62	1.45	1.32	1.22	1.14
24	----	----	----	----	1.58	----	----	----	----
25	----	----	----	---	----	----	1.27	1.14	1.05
26	1.17	1.24	1.35	1.47	----	----	----	----	----
27	1.17	1.25	1.35	1.46	----	---	---	---	----
28	1.14	1.22	1.32	1.44	-	1.41	1.27	1.15	1.06
29	----	----	----	----	1.65	----	----	----	----
Averages	1.18	1.26	1.36	1.48	1.62	1.45	1.32	1.21	1.12

OMAHA, NEBR.

Date	A.M. 78.7°	75.7°	70.7°	60.0°	*	P.M. 60.0°	70.7°	75.7°	78.7°
Air mass	4.78	3.82	2.87	1.91	*	1.91	2.87	3.82	4.78
2	---	--	----	1.24	----		----	----	----
3	.90	1.02		---	[illegible]	1.31	(1.08)	----	----
7		---	--	.92	1.22	---	----	----	----
8	.78	.88	.98	1.14	---	--	----	----	----
12		--	HS1.08	1.22	[illegible]	HS1.19	[illegible]	HS .89	HS .79
13	[illegible]	[illegible]	1.17	1.29	[illegible]	1.22	HS1.04	----	-- -
14	[illegible]	[illegible]	1.12	[illegible]	1.28	1.10	----	----	---
16	---	- -	----	[illegible]	[illegible]	1.05	.86	.73	.63
17	H .42	H .51	H .62	(.87)	---	----	--	---	--
18	---		--	-	---	1.10	.96	.81	.71
19	H .80		-	(1.17)	1.28	(1.16)	(.96)	(.80)	
30	-	H .79	H .94	-		---	----	----	
Averages	.81	.88	.99	1.15	[illegible]	[illegible]	.95	.82	.71

TUCSON, ARIZ.

Date	A.M. 78.7°	75.7°	70.7°	60.0°	*	P.M. 60.0°	70.7°	75.7°	78.7°
Air mass	4.64	3.71	2.78	1.86	*	1.86	2.78	3.71	4.64
1	.93	1.06	1.22	1.37	1.53	1.32	1.12	.99	.87
2	.95	1.06	1.18	1.35	1.50	1.37	1.21	1.08	.98
3	.95	1.06	----	1.33	----	----	----	----	----
4	----	----	----	----	----	1.33	1.19	1.05	.90
5	.99	1.07	1.19	1.37	----	----	---		----
6	.93	1.05	1.16	1.36	1.50	1.37	1.19	1.05	.95
7	---	1.05	1.22	1.37	----	----		----	----
9	.89	.99	1.09	1.29	1.50	1.32	1.16	1.04	.92
10	.98	1.07	----	-	1.49	----		----	----
12		----	----	----	----	1.35	1.17	1.03	.89
13	.87	.99	1.11	1.31	1.49	1.29	1.11	.98	.87
14	.92	1.02	1.15	1.34	1.48	----	----	----	----
15	.82	.94	1.09	1.28	1.46	1.32	1.17	1.00	.90
16	.97	1.06	1.20	1.37	1.53	1.31	----	-	----
17	.58	.71	.88	1.17	1.52	1.32	1.17	1.03	.92
18	.90	1.01	1.15	1.31	1.51	1.33	1.16	1.04	.95
19	.88	- -			---	----		----	----
21	---	--	----		---	1.23	1.05	.92	.80
22	.87	.98	1.10	1.27	1.44	1.25	1.05	.93	.82
23	D .31	D .49	D .69	D .99	1.38	1.24	1.01	.91	.83
24	.89	1.00	1.12	1.29	1.44	1.25	1.11	.99	.87
25	.92	1.03	1.15	1.31	1.47	1.23	----	----	----
26	----	----	----		----	.90		----	----
27	----	----		---	----	D .92	D .71	D .55	D .41
29	.66	.76	.89	1.09	----	1.09	.91	.81	.69
30	.64	.77	.89	1.08	1.29	1.15	.99	.85	.75
31	.80	.91	1.05	1.22	1.45	1.26	1.05	.94	.81
Averages	.84	.95	1.08	1.27	1.47	1.24	1.08	.96	.84

NET RADIATION

Net radiation in langleys per day (8 a.m. to 8 a.m.) at Palmer, Alaska [illegible]

Date.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Avg.
Langleys. . .	-41	41	-29	23	-5	-17	-35	-32	-27	12	21	-21	-13	5	19	-28	17	14	55	-59	-12	44	-57	-73	-71	-75	-49	16	107	-12	33	-15

SOLAR ULTRA-VIOLET RADIATION DATA

Daily totals and monthly average [illegible] at Ames, Iowa

Date. . . .	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Avg
Langleys.																	NO DATA RECEIVED															

TOTAL OZONE DATA

These provisional ozone data are obtained from measurements made with a Dobson ozone spectrophotometer, and are applicable approximately to local apparent noon. The data are presented in the code [illegible] described in the August 1963 WMO circular entitled "PUBLICATION OF DATA FOR METEOROLOGICAL RESEARCH, WORLD OZONE DATA"

Units: [illegible]

Station	Day of month																														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean Dp
																NO DATA RECEIVED																

REFERENCE NOTES

OBSERVED EXTREMES OF TEMPERATURE AND PRECIPITATION - BY STATES Dates in the table apply to the period 24 hours prior to time of observation. In some cases the actual occurrence is on the calendar date preceding that shown. (See individual Climatological Data for times of observations).

+	And also on an earlier date or dates.
D	Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch of water equivalent to every 10 inches of snowfall.

CLIMATOLOGICAL DATA - METRIC UNITS: Data from airport unless otherwise specified.

Precipitation data in column headed "Greatest in 24 hours" are computed on a 24-hour basis without regard to calendar day - data may include precipitation with a measurable amount from the last day of the previous month or the first day of the following month.

Wind directions under resultant direction are in tens of degrees.

Value entered in column "Fastest Mile" is the highest observed 1-minute wind speed when the direction is in tens of degrees. These stations are not equipped with a recording anemometer from which "Fastest Mile data can be evaluated.

B	Number of days maximum 21.1°C. or above for Alaskan Stations.
Y	Peak Gust.
+	And also on an earlier date or dates.
U	Indicates Urban site.
R	Indicates Rural site.
Ø	Station pressures apply to elevations shown in the "Elevations" table of the annual issue of this publication.

Conversion formulae to English Units are as follows:

1 foot = 0.3048 meters
°F. = $\frac{9}{5}$ x C + 32
1 inch = 25.4 millimeters
1 mile per hour = 0.447 meters per second

HEATING DEGREE DAYS: Data from airport unless otherwise specified.

U	Indicates Urban site.
R	Indicates Rural site.

COOLING DEGREE DAYS: Data from airport unless otherwise specified.

U	Indicates Urban site.
R	Indicates Rural site.

STORM SUMMARY:

°	Includes crop damage.
C	Crop damage.
*	No occurrence of storms or unusual weather phenomena reported.
@	Includes heavy sleet storm.
#	Freezing drizzle and freezing rain, commonly known as glaze.
Ø	For breakdown of "All Others," and for detailed listing of other storms, see the Environmental Data Service, NOAA, monthly publication STORM DATA.
‡	No Storm Data Report received for this State.
	Report Incomplete.
ˆ	Storm damages are placed in categories varying from 1 to 9 as follows:

1	Less than $50
2	$50 to $500
3	$500 to $5,000
4	$5,000 to $50,000
5	$50,000 to $500,000
6	$500,000 to $5 Million
7	$5 Million to $50 Million
8	$50 Million to $500 Million
9	$500 Million to $5 Billion.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS:

1/	Flooding continued at the end of the month.
NA	Not available.

FLOOD STAGE DATA:

#	Highest Stage Observed
1/	Continued at end of month
___	Highest Stage of Record
E	Estimated
P	Provisional (Flood Stage)
U	Unknown

RAWINSONDE DATA (Average Monthly Values):

All observations scheduled at 1200, G.C.T. Pressures shown under station names are the average monthly station pressures for the month of record, corrected to the height of the floors of the instrument shelters used for rawinsonde purposes. "Number of observations" refers to those of dynamic height only. Although the number of temperature observations at any given pressure surface is usually the same as for height, it is possible for temperature to be missing for one or more pressure surfaces of some observations. Dew Point averages are limited to those observations with temperatures warmer than -40°C. Observations of wind speed and direction are sometimes lost due to limiting angles, i.e., elevation angles less than 6° above the horizon, or any obstruction above the horizon. The temperature and wind values are based on 15 or more observations at the surface or 5 observations at a standard pressure level for temperature and 10 for wind. Dew Point data are not published for standard pressure surfaces for which less than 5 observations are available. Dew Point data are computed and expressed on the basis of vapor pressure over water. Unless otherwise indicated, they are obtained from carbon hygristors. These average values for standard pressure surfaces were obtained by rawinsondes; dynamic height (geopotential) in units of .98 dynamic meter, temperature and dew point in degrees Celsius, and resultant winds in tens of degrees and meters per second.

*	Rawinsondes at this station were equipped with hypsometers to permit more accurate evaluations of pressure, and consequently height, at pressures lower than 50 mb. These rawinsondes were carried aloft by special high altitude balloons, in an effort to consistently reach higher altitudes.
+	Observations for these stations are scheduled at 0000 G.C.T.
†	Dew Point temperatures are based on a minimum of 5 observations. Therefore, due to the lesser number of Dew Point observations at the higher levels comparison with dry-bulb temperatures should be made with care. Dew Point temperatures replaced Relative Humidity January 1967.

REFERENCE NOTES - Continued

SOLAR RADIATION INTENSITIES: Langley is the unit used to denote one gram calorie per square centimeter. An explanation of the formula used in computing the air mass values for each station appears in the February 1957 issue, Vol. 8, No. 2, page 63, of this publication.

()	Clouds Present	DM	Moderate Dust	HM	Moderate Haze	KS	Slight Smoke
*	Values corresponding to true solar noon	DS	Slight Dust	HS	Slight Haze	M	Moderate Haze-indeterminable
BD	Blowing Dust	F	Fog	I	Intense Haze-indeterminable	N	Sand
BN	Blowing Sand	GF	Ground Fog	K	Smoke	S	Slight Haze-indeterminable
D	Dust	H	Haze	KI	Intense Smoke		
DI	Intense Dust	HI	Intense Haze	KM	Moderate Smoke		

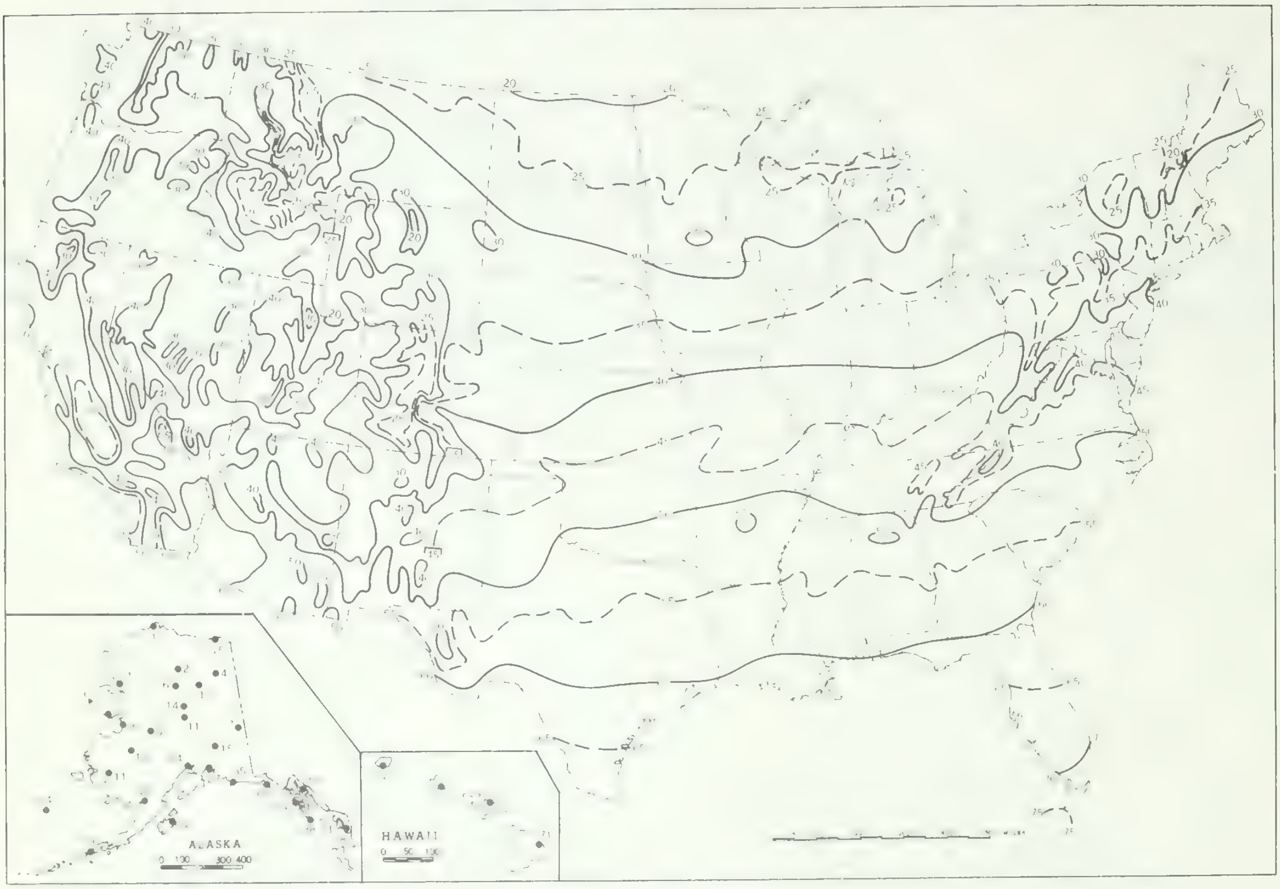
NET RADIATION: The measurement is made with a CSIRO FUNK net exchange radiometer over a plot of sod. The value represents the total incoming minus the total outgoing radiation of all wave lengths.

These data are of an experimental nature and are published as received from the Palmer Exp. Station. The instrument with which they were measured has not been checked by the NOAA, National Weather Service.

SOLAR ULTRA-VIOLET RADIATION DATA: These data are from an U-V Eppley total ultra violet sensor and Speedomax H (Leeds Northrup) Recorder. This instrument has not been checked by the NOAA, National Weather Service.

TOTAL OZONE DATA: The spectrophotometer measures the total amount of ozone in the atmosphere, i.e., the amount contained in a vertical column of air extending from ground level to the top of the atmosphere in the vicinity of the station. The amount of ozone in this column (coded $\Omega\ \Omega\ \Omega$) is expressed in terms of a thickness of a layer it would occupy at standard temperature and pressure, e.g., 350 milli-atmo-cm ozone implies an ozone layer 0.350 centimeter thick. The code λ_S designates the type of measurement made.

Chart 1. A. Normal Daily Average Temperature (°F. 1941-70), March.


ALASKA
0 100 300 400
HAWAII
0 50 150

B. Temperature Departure from 30 - Year Mean (°F 1941-70), March 1975

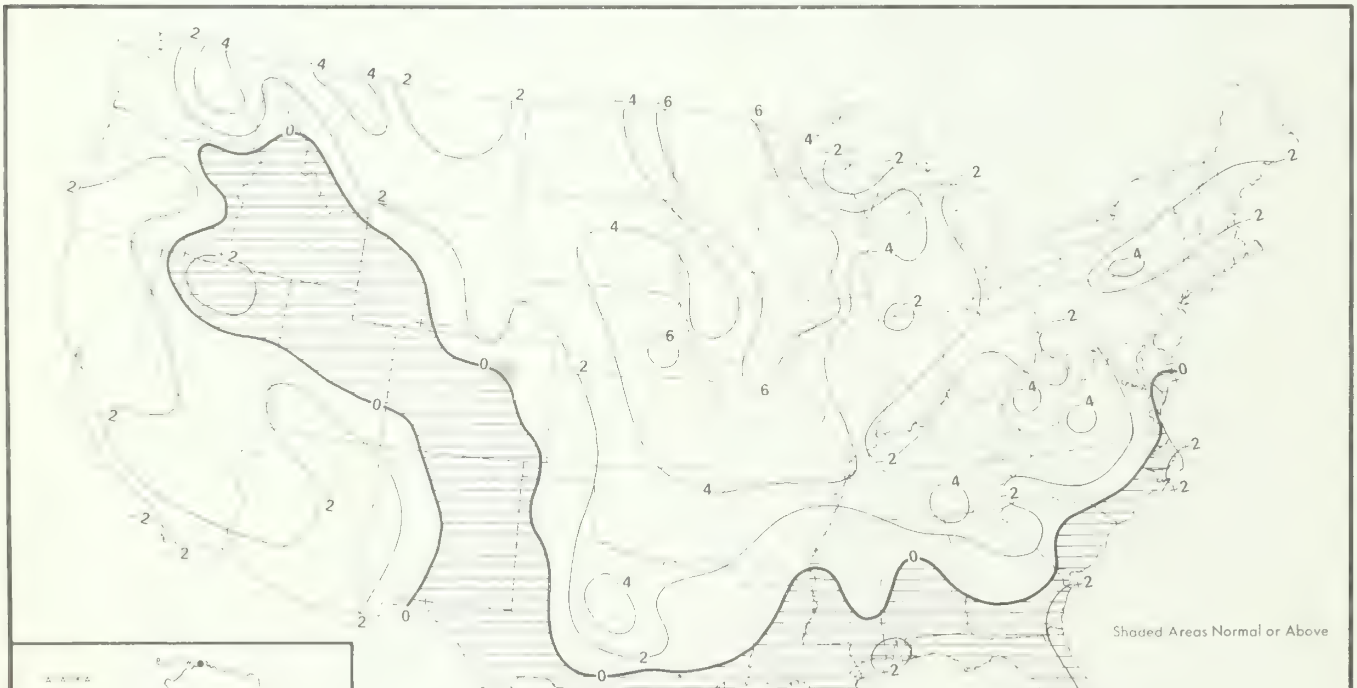
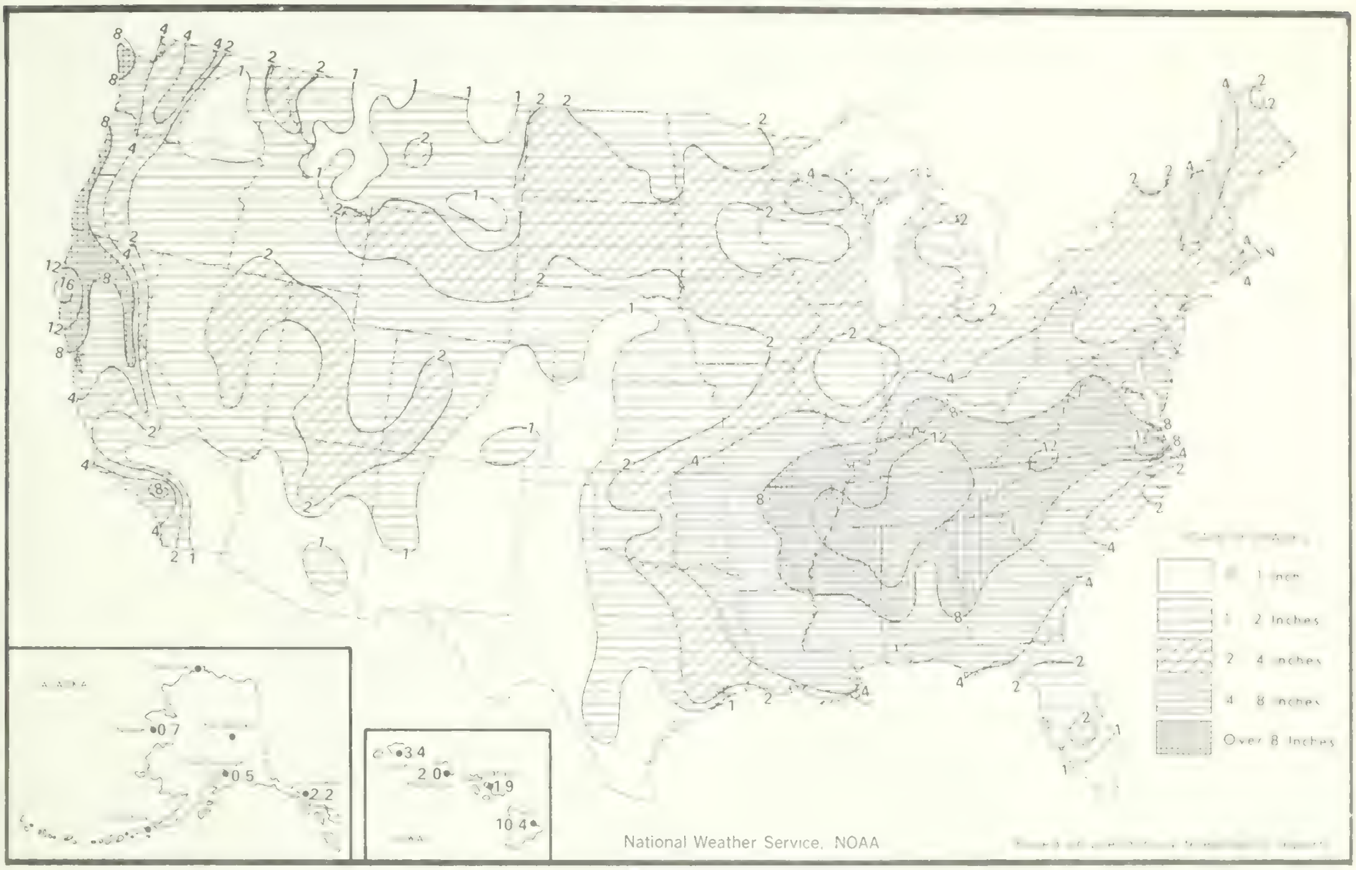

Shaded Areas Normal or Above
National Weather Service NOAA
Based on preliminary telegraphic reports

Chart II A Total Precipitation (Inches), March 1975


0 7
0 5
2 2
3 4
2 0
1 9
10 4
0   1 Inch
1   2 Inches
2   4 Inches
4   8 Inches
Over 8 Inches
National Weather Service, NOAA

B. Percentage of Normal Precipitation, March 1975

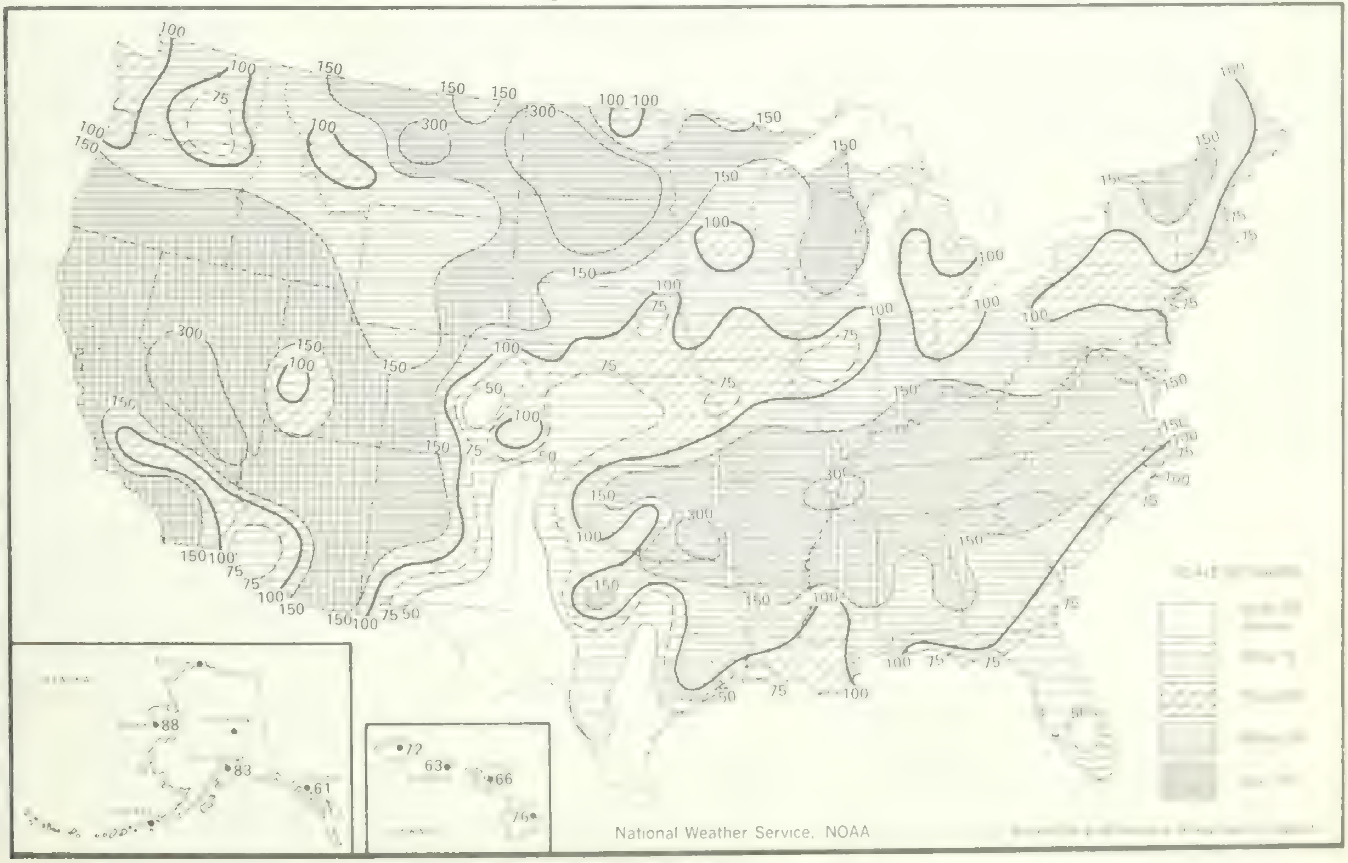
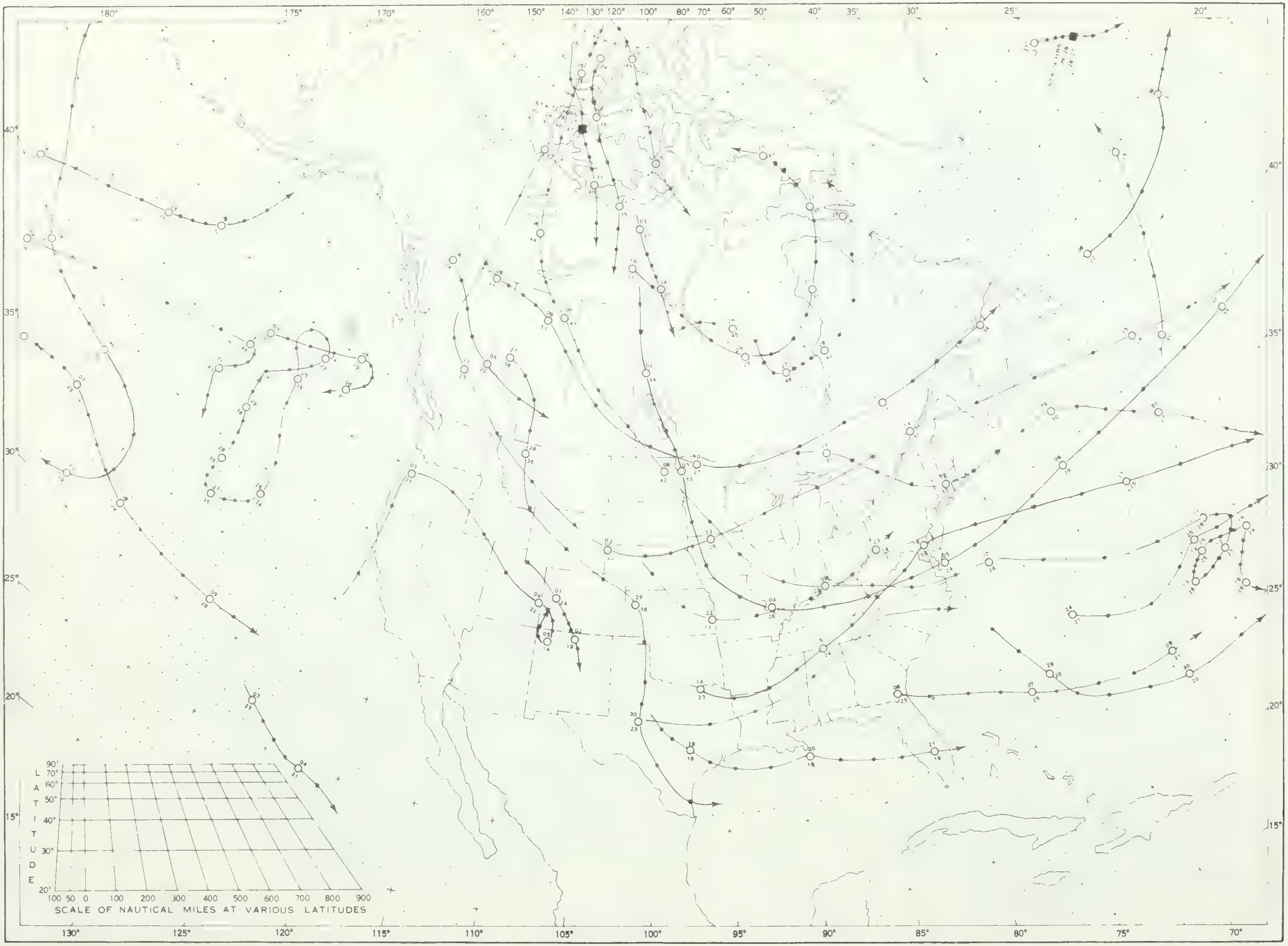
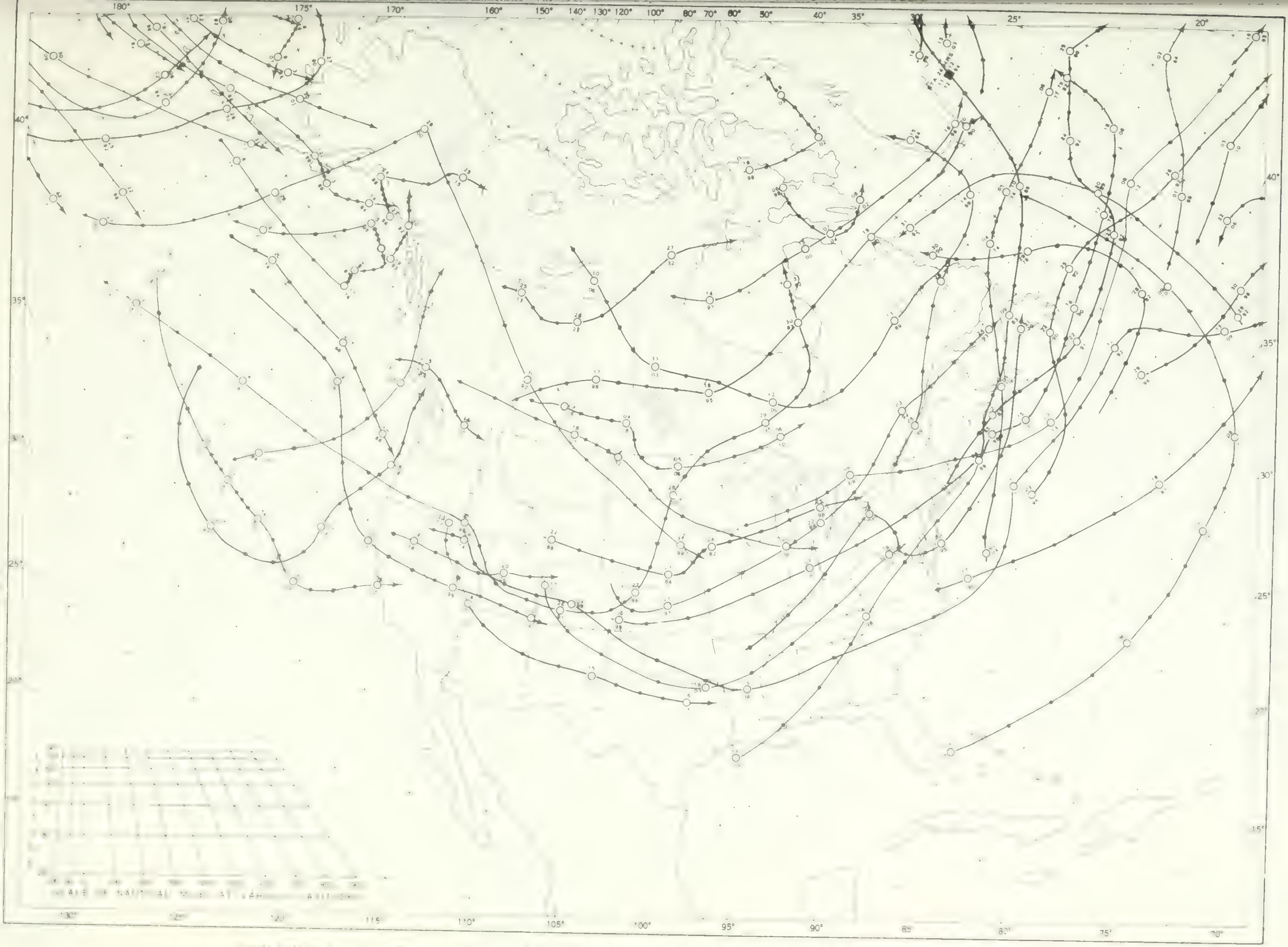

88
83
61
72
63
66
76
National Weather Service, NOAA

Chart III. Tracks of Centers of Anticyclones at Sea Level, March 1975


180°
175°
170°
160°
150°
140°
130°
120°
100°
80°
70°
60°
50°
40°
35°
30°
25°
20°
40°
35°
30°
25°
20°
15°
130°
125°
120°
115°
110°
105°
100°
95°
90°
85°
80°
75°
70°
LATITUDE
90°
70°
60°
50°
40°
30°
20°
100 50 0 100 200 300 400 500 600 700 800 900
SCALE OF NAUTICAL MILES AT VARIOUS LATITUDES

Circle indicates position of center at 7:00 a.m. E.S.T. Figure above circle indicates date, figure below, pressure to nearest millibar. Dots indicate intervening 6-hourly positions. Squares indicate position of stationary center for period shown. Dashed line in track indicates reformation at new position. Only those centers which could be identified for 24 hours or more are included.


180°
175°
170°
160°
150°
140°
130°
120°
100°
80°
70°
60°
50°
40°
35°
30°
25°
20°
115°
110°
105°
100°
95°
90°
85°
80°
75°
70°
40°
35°
30°
25°
20°
15°
SCALE OF NAUTICAL MILES AT VARIOUS LATITUDES

Circle indicates position of center at 7:00 a.m. E.S.T. Figure above circle indicates date; figure below, pressure to nearest millibar. Dots indicate intervening 6-hourly positions. Squares indicate position of stationary center for period shown. Dashed line in track indicates reformation at new position. Only those centers which could be identified for 24 hours or more are included.

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1776-1976

CLIMATOLOGICAL DATA

NATIONAL SUMMARY

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
Environmental Data Service

JAN 8

APRIL
1975
lume 26
No. 4
le, N.C.

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NOTE: Late reports and corrections will be carried in the June and December issues of this publication. An explanatory page "Description of Charts' will be carried in the January and July issues.

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I cerify that this is an official publication of the National Oceanic and Atmospheric Administration and is compiled from records on file at the National Climatic Center, Asheville, North Carolina 28801.

William H. Haggard

Director, National Climatic Cent

CLIMATOLOGICAL DATA

NATIONAL SUMMARY

APRIL 1975

GENERAL SUMMARY OF WEATHER CONDITIONS

Dr. Richard E. Felch, Climatologist

GHLIGHTS: Rainfall was near normal over much of
e Country with amounts ranging from 0.01 inch at
ownsville, Texas, to 10.18 inches at Baton Rouge,
. Unusually heavy amounts fell in Montana and the
rthern Great Plains. The Helena-Great Falls, Mont.,
ea received over 3 times the expected precipita-
on, much of it as late winter snow. The Gulf
ast, including southern portions of Mississippi,
uisiana, Alabama, Georgia, and northern Florida
s also very wet.

ere were several pockets of extremely dry weather.
e largest areas included southern and west Texas,
w Mexico, and southern Florida.

mperatures during the month averaged well below
rmal across the entire Nation except in the Corpus
risti, Texas area, and southern Florida. Montana
s 10 to 12° below the normal. The northern Great
ains averaged 6 to 8° below normal, due in part to
tended snow cover.

ECIPITATION: The first week of April brought high
nds and wintery conditions to many parts of the
tion. Heavy snow, with thunderstorms immobilized
rts of Illinois and Michigan on the 2d and 3d.
le force winds wracked the North Central and East-
n States on the 3d through the 6th, causing exten-
ve damage and extremely heavy snows across the New
gland region.

avy rains of 2 inches or more fell in northeast
xas and the Gulf Coast during the 2d week. Over 5
ches fell in southern Alabama, Georgia, and north-
n Florida. There was record flooding in many areas, as most of the rain fell within 24 to 36 hours.

Heavy rainfall continued into the following week along the Gulf Coast. Flooding increased on already swollen rivers. At Least 4 tornadoes touched down in northwestern Florida. Rainfall was heavy in parts of the Corn Belt on the 17th-19th. To the south, associated with the same storm system, at least twelve tornadoes were reported, mostly in the mid-section of the Mississippi River Valley.

The last full week of the month brought heavy rains to the southern Corn Belt and parts of Minnesota and Wisconsin.

TEMPERATURE: Except for some warming at the end of the month, most of April averaged well below normal in temperature.

During the first week the entire Nation averaged below normal except for the southern half of Florida. Most of the Nation averaged 6 to 12° below normal with the northern Great Plains and Montana 12 to 21° below. Record lows were established at numerous locations.

Old man winter refused to release his grip during the second week as temperatures continued to average well below normal.

The last full week of April saw considerable warming with much of the Great Plains at least 6° above normal. However, the Western States continued below normal.

OBSERVED EXTREMES OF TEMPERATURE AND PRECIPITATION -- BY STATES

APRIL 1975

STATE	Temperature						Precipitation			
	Monthly extremes						Monthly extremes			
	Station	Highest	Date	Station	Lowest	Date	Station	Greatest	Station	Least
		°F			°F			In.		In.
Alabama	Brewton 3 SSE	93	27	Florence	22	4	Evergreen	18.20	Fort Payne	1.81
Alaska	Ketchikan	61	30	Kobuk	-35	2	Mac Leod Harbor	19.93	2 Stations	T
Arizona	Tacna 3 NE	95	22	2 Stations	- 9	2	Sunrise Mountain	4.65	Parker	.03
Arkansas	Sparkman	90	25	Gravette	19	3	Crossett 2 SSE	8.29	Harrison FAA AP	1.44
California	Death Valley	94	22	Bodie	-12	9	Mineral	8.83	Trona	.00
Colorado	La Junta FAA AP	91	26	Taylor Park	-25	3	Allenspark	4.74	Montrose No 2	.22
Connecticut	Stamford 5 N	72	25	2 Stations	18	10-	Wolcott Reservoir	4.47	Round Pond	2.17
Delaware	3 Stations	78	20	Wilmgton Porter Reservoir	20	5-	Lewes 1 SW	5.51	Newark University Farm	2.98
Florida	Arcadia	98	30	Smith Creek	29	4	Chipley 3 E	9.83	Punta Gorda 4 ENE	T
Georgia	Camilla	93	27	Blairsville Exp. Station	23	13	Colquitt 2 E	11.52	Blairsville Exp. Station	1.12
Hawaii	2 Stations	87	23	Mauna Loa Slope Obs., Hawaii	28	7	Hilo Country Club 86.6, Ha.	20.67	4 Stations	.00
Idaho	Grand View 2 W	73	22	Island Park Dam	-18	2	Grangeville 11 SE	5.37	May	.24
Illinois	Quincy	86	17	Walnut	8	4	Peotone	9.68	Illinois City Dam 16	1.95
Indiana	Scottsburg	86	29	Culver Experiment Farm	15	13	Gary	8.16	Bedford	2.33
Iowa	2 Stations	87	17	Cherokee	- 8	3	Estherville 2 N	7.67	Ankeny 2 SW	1.43
Kansas	Aetna 2 S	92	23	Wamego	1	3	Leavenworth	5.66	Tribune 1 W	.45
Kentucky	Bernheim Forest	90	28	4 Stations	20	7-	Vanceburg	9.70	Williamsburg	2.69
Louisiana	2 Stations	92	26	2 Stations	28	4	Bogalusa	13.59	Quarantine	1.56
Maine	2 Stations	69	18	Fort Kent	3	2	Sanford 2 NNW	5.44	Presque Isle	1.23
Maryland	2 Stations	81	24	Bittinger 2 NW	5	5	Mc Henry 2 NW	5.32	Leonardtown 3 NW	1.36
Massachusetts	Chester 2	78	30	Lanesboro	14	10	Fall River	3.97	Belchertown	1.69
Michigan	2 Stations	77	30	Champion Van Riper Park	-12	1	Charlotte	7.77	Seney National WLR	.96
Minnesota	3 Stations	69	23	2 Stations	-21	2	Gaylord	7.20	2 Stations	.68
Mississippi	Merrill	91	27	Batesville 2 SW	24	4	State Line	10.58	Baldwyn	2.61
Missouri	St. Joseph 4 WNW	90	17	St. Joseph 4 WNW	2	3	Moberly Radio KWIX	7.91	Tecumseh	1.68
Montana	Birney 2 SW	79	25	Redstone	-27	2	Shonkin 7 S	5.48	Kila	.43
Nebraska	2 Stations	89	27	2 Stations	-17	2	Clarkson	7.00	Kingsley Dam	.54
Nevada	Sunrise Manor Las Vegas	89	21	2 Stations	- 5	7	Austin	3.52	Diablo	.06
New Hampshire	Concord WSO AP	71	30	Mount Washington	- 3	1	Mount Washington	13.45	Monroe 5 NNE	1.28
New Jersey	4 Stations	77	20	Newton St. Pauls Abbey	15	6-	Cape May 1 NW	4.74	Hightstown 2 W	1.98
New Mexico	Jal	95	17	Chama	- 1	2	Wolf Canyon	3.41	11 Stations	.00
New York	Fredonia	78	30	Old Forge	- 1	10	Warrensburg 4 NW	5.40	Canisteo	.59
North Carolina	Wilmington WSO AP	92	29	Grandfather Mountain	12	4	Trenton	6.43	Bent Creek	.44
North Dakota	Linton	73	28	Powers Lake 1 N	-24	2	Bottineau	7.30	Edmore 1 N	1.22
Ohio	3 Stations	82	30	Chardon	11	11	Peebles	7.07	Oberlin	.55
Oklahoma	Hollis	96	24	Boise City 2 E	14	3	Lyons 2 N	6.67	2 Stations	.56
Oregon	4 Stations	74	30	Crater Lake NP HQ.	2	16	Port Orford 5 E	8.07	Sisters	.07
Pennsylvania	2 Stations	78	23	Francis E Walter Dam	4	5	Stoystown	5.98	Wellsboro 3 S	.54
Puerto Rico	Magueyes Island	94	17	Adjuntas Substation	49	2	Pico Del Este	8.02	San Sebastian 2 WNW	.00
Rhode Island	North Foster 1 E	68	30	Kingston	15	11	Kingston	3.65	Providence WSO AP	2.99
South Carolina	3 Stations	92	28	Caesars Head	21	4	Ridgeland 5 NE	6.90	Gaston Shoals	.92
South Dakota	3 Stations	90	26	Columbia 8 N	- 9	3	Leola	5.31	Mission 14 SSE	.55
Tennessee	Centerville Water Plant	89	27	6 Stations	20	13-	Memphis WSO AP	4.98	Chattanooga WSO AP	1.03
Texas	Falcon Dam	109	19	Lipscomb	14	3	Buffalo	11.10	19 Stations	.00
Utah	3 Stations	80	26	Scofield	- 8	2	Alta	7.49	Price Warehouses	T
Vermont	Rutland	70	19	West Burke	5	1	Mount Mansfield	6.33	Saint Johnsbury	1.48
Virginia	Danville-Bridge St.	90	25	Mt. Lake Biological Sta.	12	6	Parramore Beach L B S	5.72	Speedwell	.96
Virgin Islands	2 Stations	90	23	Annaly	62	27	Truman Field FAA AP 2	3.22	Frederiksted	.20
Washington	White Swan Ranger Sta.	79	27	Lake Keechelus	4	6-	Cedar Lake	6.83	Little Goose Dam	.24
West Virginia	Williamson	85	30	Spruce Knob	10	4	Pickens 1	6.01	Moorefield 2 SSE	1.50
Wisconsin	Madison WSO AP	78	23	Jump River 5 E	-10	1	Ellsworth	7.73	Brule Ranger Station	1.33
Wyoming	Torrington Exp. Farm	87	25	Lake Yellowstone	-26	2	Burgess Junction	5.75	Mountain View	.16

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation ground	Pressure		Temperature											Average relative humidity	Precipitation							Wind					No of days (sunrise to sunset)			Sky cover, tenths (sunrise to sunset)	Possible sunshine
		Station	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	No of days: Max 32.2 °C or above	No of days: Min 0 C or lower	Average dew point		Total	Departure from normal	Greatest in 24 hours	No of days: 25 mm or more	No of days: With thunderstorms	Snow, Ice pellets: Total	Snow, Ice pellets: Maximum depth on ground	Resultant speed	Resultant direction	Fastest mile (1.6 kilometers): Speed	Fastest mile (1.6 kilometers): Direction	Fastest mile (1.6 kilometers): Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10		
ALABAMA	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
BIRMINGHAM	189	995.9	1016.4	22.6	9.0	15.8	-1.5	29.4	27	0.0	6+	0	2	3.9	66	81	-35	28	10	5	0	0	0.4	24	13.4	[illegible]	2	6	6	18	7.0	[illegible]
HUNTSVILLE	190	995.3	1016.5	21.9	9.1	15.5	-1.0	30.0	26	-0.5	4	0	1	7.[illegible]	62	81	-41	29	8	5	0	0	0.5	24	15.6	29	2	10	5	15	[illegible]	
MOBILE	64	1009.8	1017.7	24.0	14.0	19.0	-0.9	30.6	26	3.9	4	0	0	13.3	73	230	68	78	11	8	0	0	1.1	12	15.6	24	30	4	6	20	7.7	
MONTGOMERY	59	1011.2	1018.5	23.0	11.0	17.1	-1.3	29.4	27	3.9	5+	0	0	11.1	70	169	65	76	9	4		0	0.2	32	15.2	[illegible]	3+	8	7	15	6.5	64
ALASKA																																
ANCHORAGE	35	1006.4	1011.3	3.6	-2.6	0.5	-1.3	7.8	24	-10.0	4+	0	28	-4.4	69	43	29	18	11	0	409	406	0.5	32	8.9	30	1	8	2	20	6.9	47
ANNETTE	34	1011.9	1015.9	8.2	1.3	4.8	-1.2	15.0	14	-3.3	5	0	12	-0.6	72	202	-21	38	20	0	178	25	1.4	14	10.7	12	11	3	8	19	7.8	
BARROW	9	1017.6	1018.2	-15.7	-24.8	-20.3	-2.0	-5.0	13	-31.7	3	0	30	-22.8	81	5	-1	3	4	0	69	203	0.8	11	11.6	9	4+	16	10	4	3.6	
BARTER ISLAND	12	1016.3	1018.4	-15.1	-24.2	-19.6	-1.9	0.0	14	-32.8	12	0	30	-21.7	82	5	-1	2	5	0	104	203	1.7	25	17.9	28	15	11	10	9	5.4	
BETHEL	38	1007.5	1013.3	-2.4	-10.5	-6.4	-2.3	4.4	30+	-25.0	2	0	30	-8.3	84	22	11	12	14	0	363	279	0.6	29	17.4	18	13	2	10	18	7.6	
BETTLES	196			-1.4	-14.1	-7.8	-1.4	8.9	26	-27.8	2	0	30			10	-6	9	4		302	457			7.6	2	29+	9	9	12	5.3	
BIG DELTA	386			3.6	-7.1	-1.7	-0.3	12.8	30	-23.9	4	0	27			7	-1	4	6		91	203										
COLD BAY	29	1009.5	1012.9	2.4	-2.5	0.0	-0.6	8.3	24	-8.3	11	0	24	-2.2	86	64	25	17	17	0	218	81	1.2	27	23.2	26	24	0	2	28	9.5	
FAIRBANKS	133	995.6	1012.9	4.2	-5.9	-0.8	0.9	15.0	30	-20.6	3	0	26	-8.9	56	12	4	5	7	0	112	635	0.4	20	9.4	14	17	9	3	18	6.5	
GULKANA	479			4.1	-6.1	-1.0	0.0	10.6	30	-13.3	4	0	17			9	4	5	5		131	356										
HOMER	19	1007.5	[illegible]	3.9	-3.1	0.4		8.3	15	-11.1	3	0	23	-2.8	79	55	27	19	14	0	244	330	0.2	33	13.0	17	17	6	4	20	7.3	
JUNEAU	4	1012.9	1014.5	7.7	-0.7	3.5	-0.3	13.3	30	-6.1	4	0	17			77	1	20	18	0	114	102	2.5	13	11.2	12	11	3	2	25	8.3	37
KING SALMON	15	1009.1	1011.2	0.2	-8.1	-3.9	-3.6	5.6	30	-20.6	2	0	28	-6.7	80	67	44	19	16	0	363	254	0.2	33	13.9	17	13	5	9	16	7.4	
KODIAK	4	1006.1	[illegible]	3.6	-2.1	0.8	-1.9	7.2	14	-8.3	2	0	23	-3.9	76	101	4	20	17	0	132	127	2.4	31	17.9	29	18	7	5	18	7.0	
KOTZEBUE	3	1013.5	[illegible]	-7.8	-17.9	-12.8	-2.2	1.1	25	-28.9	18	0	30	-15.6	77	11	3	4	11	0	183	737	1.1	12	18.3	11	19+	9	5	16	6.5	
MCGRATH	105	[illegible]	[illegible]	0.6	[illegible]	-5.3	-2.2	[illegible]	30	-27.8	8	0	27	-11.1	62	16	-1	6	9	0	216	762	0.5	35	9.8	10	26	6	9	15	7.0	
NOME	4	1011.5	1012.4	-5.6	-15.0	-10.3	-3.1	1.7	25	-31.1	2	0	30	-11.7	87	27	8	6	13	0	351	991	1.9	9	13.0	9	19+	8	3	19	6.9	53
ST. PAUL ISLAND	7	1012.5	1013.3	-0.7	-4.4	[illegible]	-0.6	5.0	4	-11.1	30+	0	28	-3.9	91	33	5	12	16	0	142	589	1.2	29	19.7	5	24	3	4	23	8.4	
SUMMIT	731			-1.3	[illegible]	-5.7	-1.0	5.0	30	-17.2	22	0	30			22	5	7	10	0	351	737			11.6	9	2	6	4	20	7.4	
TALKEETNA	105			4.7	-5.9	-0.6	-0.9	11.1	30	-15.0	4	0	30			55	27	19	12	0	648	1143			11.6	2	2					
UNALAKLEET	5			-2.3	[illegible]	-6.7		6.7	29	-25.0	9	0	30			8		1	14		84	330			17.0	[illegible]	3					
YAKUTAT	9	1011.9	[illegible]	4.7	[illegible]	1.4	-0.8	7.8	23	-8.9	4	0	18	-1.1	83	329	135	59	18	0	770	[illegible]	1.7	11	9.8	14	10+	5	4	20	7.5	
ARIZONA																																
FLAGSTAFF	2135	782.9	1012.4	9.6	-5.1	2.3	-3.3	18.3	21	-18.9	2	0	26	[illegible]	47	56	22	14	11	1	638	254	3.4	22	13.4	SW	14	13	9	8	4.3	74
PHOENIX	340	973.2	1012.2	24.8	9.2	17.0	-2.8	32.8	21	5.0	7+	1	0	-1.7	33	11	3	6	3	0	0	0	1.0	22	16.5Y	SW	17+	21	6	3	2.5	89
TUCSON	786	923.8	1011.4	22.7	6.1	14.4	-4.2	30.6	21	1.1	2	0	0	[illegible]	33	7	-2	3	4	0	0	0	1.7	23	14.8	[illegible]	1	17	11	2	3.1	90
WINSLOW	1492	847.6	[illegible]	17.6	-0.4	8.6	-3.4	26.1	24+	-8.9	2	0	16	-5.6	44	7	-2	5	6	1	46	25	3.7	21	17.0	[illegible]	16	17	9	4	3.6	
YUMA	59	1005.8	1012.9	24.6	10.4	17.5	-4.3	31.7	21	6.1	10	0	0	1.7	38	7	4	7	1	0	0	0	2.0	26	13.4	[illegible]	26	25	4	1	1.6	[illegible]
ARKANSAS																																
FORT SMITH	135	[illegible]	1015.7	21.9	[illegible]	15.1	-1.7	28.9	27	-5.6	3	0	3	7.2	63	53	-67	21	6	4	0	0	0.8	13	15.2	[illegible]	28	8	6	16	6.7	63
LITTLE ROCK	78	1007.5	[illegible]	22.3	9.4	15.9	-0.6	30.0	27	-0.5	4+	0	2	9.4	67	105	-28	27	9	7	0	0	1.0	17	18.8	[illegible]	2	9	5	16	6.3	[illegible]
CALIFORNIA																																
BAKERSFIELD	145	[illegible]	1015.8	20.8	[illegible]	14.9	-2.2	28.3	30	4.4	1	0	0	4.4	53	24	2	12	9	1	0	0	1.4	33	10.3	29	25	11	11	8	4.9	
BISHOP	1252	869.6		16.3	-0.4	7.9	-4.5	23.9	24	-7.2	2	0	13			5	-5	5	1		0	0			23.2Y		14	9	15	6	4.8	
BLUE CANYON	1609	935.1		6.2	[illegible]	2.1	-4.6	13.9	29+	-7.8	15	0	22			189	50	53	13		1234	1930	1.2	18	13.4	[illegible]	24	8	4	18	6.6	
EUREKA	[illegible]			10.9	[illegible]	8.1	-1.8	16.1	[illegible]	1.1	16	0	0			84	9	21	15		T	0			14.3	SW	24	6	10	14	6.5	52
FRESNO	100	1004.4	1016.1	19.2	[illegible]	12.2	-3.6	26.1	30+	0.0	1	0	1	4.4	64	14	-18	8	5	0	0	0	1.0	32	13.4	[illegible]	24	11	10	9	4.6	83
LONG BEACH	8	1014.9	1016.3	18.6	9.3	14.0	-1.9	23.9	29	3.3	7	0	0	7.8	69	38	15	15	9	1	0	0	1.8	23	13.0	27	25	11	11	8	4.9	
LOS ANGELES	32	1012.5	[illegible]	17.2	10.2	13.7	-1.2	[illegible]	2	7.2	6	0	0	9.4	77	19	-9	7	6	[illegible]		0	2.0	25	16.1Y	[illegible]	16+	11	11	8	4.9	
LOS ANGELES	82			17.4	[illegible]	13.3	-3.2	24.4	29	3.9	7	0	0			39	7	14	8		0	0			9.4	[illegible]	26	12	9	9	4.8	[illegible]
MT SHASTA	[illegible]	[illegible]	[illegible]	[illegible]	-1.7	4.3	-3.6	18.9	30	-7.2	16	0	24			38	-39	15	15		122	25										
OAKLAND	2	1017.3	1017.5	14.7	8.3	11.6	-1.8	20.6	20	4.4	17	0	0	6.7	76	45	5	24	10	0	0	0	3.0	26	11.2	26	4	10	9	11	5.3	
RED BLUFF	104	1003.1	1015.8	17.5	4.9	11.2	-4.1	26.7	30	1.7	15	0	0	2.8	61	35	-10	10	11	1	T	T	2.4	31	14.3	[illegible]	24	9	10	11	5.6	62
SACRAMENTO	5	1015.2	[illegible]	17.3	4.6	11.0	-3.6	23.9	30+	0.0	16+	0	0	2.2	58	21	-19	8	7	0	0	0	2.0	22	11.2	[illegible]	4	11	9	10	5.0	72
SANDBERG	1377	859.2		8.8	0.4	4.7	-4.9	16.7	29+	-4.4	7	0	14	-1.1	73	56	28	24	9		396	76	2.4	32	21.9	[illegible]	27	9	9	12	5.7	
SAN DIEGO	4	1015.6	1016.8	17.8	11.8	14.8	-1.1	[illegible]	8	7.2	7	0	0	7.8	64	51	30	31	9	0	0	0	1.7	27	12.1	[illegible]	8	11	10	9	5.3	64
SAN FRANCISCO	2	1016.6	1017.4	14.2	6.4	10.3	-2.6	[illegible]	20+	3.3	15+	0	0	5.0	72	42	2	21	10	2		0	2.9	28	13.0	[illegible]	25	10	6	14	5.6	
SAN FRANCISCO	4			13.6	[illegible]	11.1	-1.9	19.4	[illegible]	6.1	6	0	0			32	-10	16	8													
SANTA MARIA	72			16.0	3.7	9.9	-2.8	[illegible]	[illegible]	-0.6	2	0	1			21	-13	11	5		0	0						13	6	11	4.8	
STOCKTON	7	1015.6	[illegible]	18.8	[illegible]	12.0	-2.8	26.1	30+	1.7	18	0	0	5.0	67	19	-16	9	8	0	0	0	2.6	29	10.3	35	28+	12	5	13	5.2	
COLORADO																																
ALAMOSA	2297	766.3		11.9	[illegible]	2.9	-2.2	[illegible]	25	-13.9	3	0	27			8	-8	4	4		104	25						15	9	6	3.7	

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation ground	Pressure		Temperature											Average relative humidity	Precipitation							Wind					No. of days (sunrise to sunset)			Sky cover, tenths (sunrise to sunset)	Possible sunshine
												No. of days							No of days		Snow, Ice pellets				Fastest mile (1.6 kilometers)							
		Station	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min 0 C or lower	Average dew point		Total	Departure from normal	Greatest in 24 hours	25 mm or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10		
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
COLORADO																																
COLORADO SPRINGS	1873	805.6	1010.2	14.2	-0.4	6.9	-1.0	26.7	25	-15.6	2	0	15	-9.3	41	17	-20	6	7	1	175	51	0.9	18	19.7	21	17	11	10	9	5.0	
DENVER	1610	830.3	1008.5	14.6	-1.1	6.7	-1.9	27.8	25	-18.9	2	0	19	-5.0	51	29	-20	14	6	0	277	203	0.6	23	17.9	W	28+	9	13	8	4.9	77
GRAND JUNCTION	1476	946.9	1009.8	14.7	1.3	8.0	-2.9	25.0	25	-11.7	2	0	13	-5.0	46	35	15	24	6	1	363	178	0.5	19	17.9	SW	25	8	11	11	5.9	73
PUEBLO	1428	849.6	1008.3	18.1	1.1	9.6	-1.3	30.6	25	-16.7	2	0	11	-5.6	45	22	-11	11	7	0	208	51	0.9	24	21.0	NW	7	13	10	7	4.7	68
CONNECTICUT																																
BRIDGEPORT	2	1012.5	1013.0	11.8	2.3	7.1	-2.1	19.4	17	-2.2	5+	0	12	-0.6	62	63	-23	28	7	1	T	T	3.1	32	15.6	34	5+	9	9	12	5.8	
HARTFORD	52	1005.8	1012.5	13.9	1.4	7.7	-1.1	21.1	30+	-2.8	10	0	16	-2.9	48	76	-19	55	6	0	8	T	3.0	31	16.5	NW	4	9	8	13	6.3	68
DELAWARE																																
WILMINGTON	23	1011.9	1014.9	14.1	3.1	8.6	-2.7	22.8	19	-3.9	13	0	9	-1.1	55	77	-4	41	6	1	T	T	2.9	31	17.4	31	3	6	12	12	6.1	
DIST. OF COLUMBIA																																
WASHINGTON DULLES	88	1004.1	1016.0	15.6	3.4	9.5	-2.2	25.0	24	-6.7	14	0	10	-0.6	53	66	-10	22	10	0	T	0	2.4	30	17.9	29	3	6	12	12	6.1	
WASHINGTON NATIONAL	3	1013.5	1016.0	16.9	7.1	12.0	-1.6	26.1	24	0.6	6+	0	0	1.1	51	54	-19	19	8	0	T	0	2.6	31	19.2	NW	4	8	9	13	5.9	61
FLORIDA																																
APALACHICOLA U	4			23.3	15.1	19.2	-1.0	28.3	27	7.2	4	0	0			124	33	70	7	4	0	0			10.7	N	4+	7	13	10	6.0	58
DAYTONA BEACH	9	1017.3	1018.5	27.4	14.9	21.2	0.2	33.3	29	4.4	7	3	0	15.0	72	75	14	47	5	4	0	0	0.7	12	10.3	29	3	10	13	7	5.1	
FORT MYERS	5	1017.6		31.0	16.8	23.9	1.0	33.3	30+	10.6	4	10	0			20	-31	7	5	3	0	0	0.5	16	11.2	30	3	12	13	5	4.2	
JACKSONVILLE	8	1017.6	1018.6	25.7	12.5	19.1	-0.9	31.7	29+	1.7	5	0	0	13.9	74	147	69	107	8	6	0	0	0.3	23	14.3	NW	3	6	13	11	6.0	69
KEY WEST	1	1016.6	1017.3	28.7	24.1	26.4	0.8	30.6	21+	20.0	7+	0	0	20.6	72	22	-34	14	3	0	0	0	3.4	12	11.6	E	23+	14	12	4	4.2	91
LAKELAND U	65			29.1	16.8	22.9	0.7	33.3	30	7.2	4	4	0			32	-33	26	5		0	0						10	13	7	4.7	88
MIAMI	2	1018.0	1018.2	29.1	21.5	25.3	1.4	33.9	15	11.1	5	3	0	19.3	68	13	-78	11	3	0	0	0	2.4	10	12.5	24	11	13	13	4	4.5	
ORLANDO/MC COY AFB	29	1014.6	1018.4	29.7	15.2	22.4	0.6	33.9	30	5.0	7	8	0	14.4	65	35	-35	30	4	1	0	0	0.3	13	11.2	29	3	11	12	7	5.0	
PENSACOLA	34	1013.9	1018.1	24.2	14.9	19.6	-0.5	29.9	30+	5.6	4	0	0	13.3	70	140	13	38	9	6	0	0	0.8	12	9.8	33	3	3	7	20	7.5	
TALLAHASSEE	17	1015.9	1018.3	26.0	11.2	18.6	-1.3	33.3	27	0.0	7	1	1	12.8	75	182	79	120	10	5	0	0	0.3	14	10.3	19	18	5	14	11	6.3	
TAMPA	6	1018.0	1018.1	29.9	16.7	23.3	1.1	33.9	30	8.3	5	4	0	15.0	63	23	-30	21	2	1	0	0	0.2	16	9.8	27	3	9	14	7	4.7	85
WEST PALM BEACH	5	1017.3	1018.1	28.4	18.2	23.3	0.0	32.8	11+	8.3	5	2	0	17.2	69	14	-75	8	7	3	0	0	1.9	11	12.5	8	23	9	13	8	5.0	
GEORGIA																																
ATHENS	244	988.5	1017.3	22.9	9.4	16.2	-0.3	30.6	25	0.6	6	0	0	4.3	64	71	-40	40	7	3	0	0	1.6	26	13.0	27	3	9	8	13	6.0	
ATLANTA	308	981.0	1017.7	21.7	9.0	15.4	-0.7	28.3	25	1.1	4	0	0	6.7	61	109	-8	57	11	3	0	0	1.6	29	15.2	W	3	10	7	13	6.0	65
AUGUSTA	41	1012.2	1017.4	23.1	8.8	15.9	-1.7	31.7	25	0.0	6	0	1	7.8	64	113	27	56	11	3	0	0	1.1	26	13.0	29	3	8	7	15	6.1	
COLUMBUS	117	1004.4		24.2	10.9	17.6	-0.6	31.1	27	1.1	4	0	0	9.4	65	169	55	107	9	5	0	0	0.6	31	12.1	31	3	7	8	15	6.3	
MACON	108	1005.4	1018.4	24.4	10.8	17.6	-1.2	30.6	28	1.7	13+	0	0	9.4	65	124	34	74	11	8	0	0	1.1	27	16.1	SE	30	6	6	16	6.4	57
ROME	194			23.0	7.6	15.3	-0.6	31.7	26	-1.7	13	0	1			39	-82	14	6		0	0										
SAVANNAH	14	1016.6	1018.5	24.9	12.2	18.6	-0.4	32.2	[illegible]	3.3	5+	1	0	11.7	71	120	45	89	8	2	0	0	0.8	25	15.6	W	3	8	5	17	6.6	65
HAWAII																																
HILO	8	1018.3	1019.5	26.2	18.7	22.4	0.1	28.9	1	17.2	22+	0	0	17.8	79	260	-67	33	30	0	0	0	0.8	16	8.9	E	12	4	2	24	8.2	33
HONOLULU	2	1018.0	1018.4	27.8	19.4	23.6	-0.2	29.4	30+	15.6	11+	0	0	17.2	76	13	-22	10	9	0	0	0	5.5	6	14.3	NE	23	5	17	8	6.0	63
KAHULUI	15	1015.6	1017.9	28.2	19.1	23.7	0.4	30.0	27+	13.9	10	0	0			3	-29	2	3	0	0	0	6.0	6	15.6	E	6	11	11	8	5.4	67
LIHUE	31	1014.6	1019.6	25.9	20.0	23.4	0.5	27.2	12	18.3	11	0	0	18.3	75	30	-53	6	22	0	0	0	5.7	8	13.4	NE	20	2	15	13	7.2	54
IDAHO																																
BOISE	865	912.3	1013.3	12.2	1.7	6.9	-2.5	19.4	22	-6.7	1	0	10	-0.6	62	39	10	8	13	0	66	25	1.4	31	14.3	NW	17	4	4	22	7.9	53
LEWISTON	431			13.3	2.8	8.1	-2.1	20.0	12	-3.3	1	0	2			32	3	10	16		T	T			20.6Y		27	3	3	24	8.5	
POCATELLO	1358	858.9	1012.9	9.6	-0.8	4.4	-3.0	16.7	24	-8.9	1	0	18	-2.9	63	38	11	13	14	0	290	81	2.7	23	17.0	SW	27	2	3	25	8.2	53
ILLINOIS																																
CAIRO U	96			19.7	10.5	15.1	-0.6	28.3	[illegible]	0.0	3	0	0			93	-18	34	9		0	0			16.5	SW	18					68
CHICAGO O HARE	201	993.2	1018.0	10.9	1.6	6.3	-3.1	24.4	29	-10.6	4	0	11	0.6	69	140	54	50	11	6	282	279	1.6	3	17.4	24	18	5	9	16	7.1	
CHICAGO MIDWAY	185	995.6	1018.5	10.7	2.1	6.4	-3.6	24.4	29	-8.9	4	0	12	0.0	65	199	104	97	13	8	254	254	1.3	4	15.6	W	19	6	8	16	6.9	57
MOLINE	177	995.6	1017.5	12.6	2.0	7.3	-3.1	26.1	17	-12.8	4	0	12	1.1	67	73	-24	26	9	4	157	152	1.5	8	15.6	W	19	6	9	15	6.7	56
PEORIA	199	993.2	1017.6	14.1	2.6	8.3	-2.4	26.7	17	-8.3	4	0	10	2.2	67	100	-11	36	8	4	41	51	1.2	8	14.3	W	18	7	6	17	6.9	46
ROCKFORD	221	990.9	1018.3	11.2	0.5	5.8	-3.2	25.0	23	-12.8	4	0	14	-0.6	65	61	-37	31	8	4	117	127	1.5	7	14.3	26	19	6	7	17	7.1	
SPRINGFIELD	179	994.9	1017.2	16.2	4.2	10.2	-1.5	27.2	17	-5.0	4+	0	7	3.9	68	73	-32	41	11	8	10	T	1.1	11	17.0	NW	23	7	8	15	6.6	49
INDIANA																																
EVANSVILLE	116	1003.7	1017.9	18.6	7.1	12.8	-0.9	28.3	28	-2.2	4	0	4	5.6	64	168	65	79	9	5	T	T	0.2	17	15.2	W	2	8	7	15	6.1	70
FORT WAYNE	241	987.8	1016.4	11.9	1.3	6.6	-3.0	23.3	29	-6.1	12	0	18	1.0	67	86	-4	28	11	5	23	25	0.9	2	18.8	SW	18	6	5	19	6.9	59

CLIMATOLOGICAL DATA

METRIC UNITS

State and station	Elevation (ground)	Pressure: Station	Pressure: Sea level	Temperature: Average maximum	Temperature: Average minimum	Temperature: Average	Temperature: Departure from normal	Temperature: Highest	Temperature: Date	Temperature: Lowest	Temperature: Date	No. of days: Max 32.2 °C or above	No. of days: Min. 0 C or lower	Average dew point	Average relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	No. of days: 25 mm or more	No. of days: With thunderstorms	Snow, Ice pellets: Total	Snow, Ice pellets: Maximum depth on ground	Wind: Resultant speed	Wind: Resultant direction	Fastest mile (1.6 kilometers): Speed	Fastest mile: Direction	Fastest mile: Date	No. of days (sunrise to sunset): Clear 0-3	Partly cloudy 4-7	Cloudy 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
INDIANA																																
INDIANAPOLIS	241	[illegible]	1017.1	15.3	[illegible]	9.4	-1.9	[illegible]	[illegible]	-5.0	5+	0	10	[illegible]	67	105	7	49	11	7	[illegible]	T	0.2	6	14.8	[illegible]	3	7	8	15	6.3	57
SOUTH BEND	236	[illegible]	[illegible]	[illegible]	[illegible]	6.4	-2.5	[illegible]	[illegible]	-5.0	13+	0	16	[illegible]	64	153	51	[illegible]	10	4	[illegible]	[illegible]	0.4	3	15.6	[illegible]	19	[illegible]	5	17	6.8	
IOWA																																
[illegible]	[illegible]			13.7	[illegible]	[illegible]	-2.2	25.7	[illegible]	-9.4	4+	0	9	[illegible]	72	105	9	45	12	3	[illegible]	152	1.1	9	[illegible]	[illegible]	26+	7	[illegible]	16	6.5	
[illegible]	[illegible]	981.4	[illegible]	[illegible]	[illegible]	[illegible]	-1.4	[illegible]	[illegible]	-12.8	3	0	9	1.7	68	67	-7	15	10	5	114	76	1.7	[illegible]	16.1	[illegible]	28	[illegible]	6	17	6.8	[illegible]
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	-3.4	[illegible]	[illegible]	-10.0	4	0	15			96	-9	46	13		221	152										
[illegible]	[illegible]	[illegible]	1015.4	12.3	[illegible]	[illegible]	-2.1	[illegible]	27	-18.9	3	0	8	[illegible]	72	[illegible]	[illegible]	34	13	4	[illegible]	76	1.7	[illegible]	16.1	[illegible]	12	[illegible]	[illegible]	20	7.7	39
WATERLOO	265	[illegible]	1017.7	[illegible]	[illegible]	[illegible]	-2.5	[illegible]	[illegible]	[illegible]	4	[illegible]	14	1.1	73	82	-5	19	15	3	[illegible]	[illegible]	1.7	[illegible]	[illegible]	[illegible]	19	[illegible]	8	20	[illegible]	
KANSAS																																
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.7	10.8	-0.7	[illegible]	[illegible]	-10.0	3	0	5	5.0	73	51	-7	22	10	6	36	25	1.8	14	[illegible]	SE	12	10	[illegible]	13	[illegible]	73
[illegible] CITY	787	[illegible]	1011.6	[illegible]	4.7	[illegible]	[illegible]	30.6	[illegible]	-9.4	2	0	6	2.8	61	83	39	34	8	[illegible]	T	T	2.3	17	19.2	[illegible]	7	14	3	13	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.6	-0.7	28.3	26	-13.9	2	0	15	[illegible]	62	26	-10	[illegible]	8	1	305	152	1.8	18	21.5	[illegible]	17	9	[illegible]	11	[illegible]	
[illegible]	267	[illegible]	[illegible]	[illegible]	[illegible]	12.4	[illegible]	[illegible]	23	-12.2	3	[illegible]	6	6.7	71	83	-9	23	[illegible]	[illegible]	[illegible]	76	1.1	14	18.6	[illegible]	18	9	6	15	[illegible]	57
[illegible]	[illegible]	965.4	[illegible]	19.1	[illegible]	12.6	-1.1	[illegible]	[illegible]	-9.4	3	0	5	6.7	69	[illegible]	-35	26	9	5	T	T	2.5	18	17.4	[illegible]	[illegible]	[illegible]	[illegible]	12	5.4	[illegible]
[illegible]																																
[illegible]	265	[illegible]	[illegible]	15.2	4.4	10.3	-1.8	26.1	29	-3.9	5+	0	8	1.1	57	106	13	55	12	6	[illegible]	T	0.6	[illegible]	14.3	[illegible]	19+	[illegible]	9	14	6.1	
[illegible]	[illegible]	982.4	[illegible]	16.9	[illegible]	11.2	-1.7	27.8	25	-3.9	5+	0	6	2.8	[illegible]	157	58	[illegible]	9	7	T	T	0.4	25	[illegible]	[illegible]	2	10	5	[illegible]	6.1	
[illegible]	[illegible]	[illegible]	[illegible]	18.2	6.7	12.4	[illegible]	[illegible]	[illegible]	-2.5	4	0	5	3.3	57	164	[illegible]	[illegible]	10	6	T	0	0.4	31	16.1	[illegible]	[illegible]	6	9	15	5.4	57
[illegible]																																
[illegible]	[illegible]	[illegible]	[illegible]	24.2	[illegible]	[illegible]	[illegible]	33.3	26	1.7	4	2	0	13.3	76	129	-2	53	11	5	0	0	1.3	13	[illegible]	16	18	5	4	21	7.6	
[illegible]	[illegible]	[illegible]	[illegible]	24.5	13.8	19.2	-1.1	[illegible]	26+	2.8	4	0	0	13.3	73	259	129	[illegible]	8	7	0	0	2.1	12	11.6	6	[illegible]	3	5	21	7.8	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14.8	19.2	-1.3	29.4	26	3.9	3	0	0	[illegible]	80	183	73	86	10	8	0	0	3.0	[illegible]	13.9	18	[illegible]	3	3	24	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	24.2	14.4	19.3	-1.0	[illegible]	26	5.0	3	0	0	15.1	82	170	65	76	6	3	0	0	1.8	11	13.4	[illegible]	[illegible]	5	10	17	7.6	51
SHREVEPORT	[illegible]	[illegible]	[illegible]	24.9	[illegible]	[illegible]	-1.5	31.7	26	0.0	3	0	1	10.6	69	99	-33	43	9	8	0	0	[illegible]	14	23.2	26	[illegible]	5	6	19	7.4	57
MAINE																																
CARIBOU	[illegible]	[illegible]		5.9	[illegible]	1.7	[illegible]	[illegible]	30+	-13.9	3+	0	25			50	-12	23	14		384	406						4	3	23	[illegible]	
PORTLAND	[illegible]	[illegible]	[illegible]	9.5	[illegible]	4.4	-1.5	[illegible]	30	-8.3	[illegible]	0	19	-2.2	66	94	9	61	6	0	43	25	[illegible]	22	18.3	[illegible]	[illegible]	5	[illegible]	17	[illegible]	[illegible]
MARYLAND																																
BALTIMORE	[illegible]	[illegible]	1015.8	15.4	5.0	10.2	-1.9	25.6	14	-2.2	14	0	6	[illegible]	53	59	[illegible]	28	9	0	[illegible]	0	2.7	[illegible]	22.4	[illegible]	3	9	6	15	[illegible]	[illegible]
MASSACHUSETTS																																
BLUE HILL [illegible]	192			[illegible]	[illegible]	5.9	-2.0	[illegible]	30	-3.9	10	0	17			84	-8	53	10		160	76			25.9	[illegible]	3					51
BOSTON	5	[illegible]	1011.4	[illegible]	[illegible]	[illegible]	-1.9	21.1	19	-0.5	8+	0	5	-1.7	57	61	-28	36	8	0	25	25	2.2	31	16.5	[illegible]	26	[illegible]	6	16	6.4	57
WORCESTER	[illegible]	[illegible]		[illegible]	[illegible]	4.9	-2.5	[illegible]	30	-4.4	4	0	20	-4.4	54	68	-30	52	6	[illegible]	[illegible]	25	3.4	31	14.8	[illegible]	[illegible]	[illegible]	6	15	6.6	
MICHIGAN																																
ALPENA	[illegible]	[illegible]	[illegible]	[illegible]	-3.4	2.1	-2.4	[illegible]	18	-10.0	4	0	23	-5.6	69	43	-19	18	7	4	28	127	1.7	33	[illegible]	[illegible]	3	11	5	14	[illegible]	68
DETROIT	[illegible]			[illegible]	[illegible]	6.3	-2.7	21.1	30+	-6.1	5	0	13	[illegible]	54					3			[illegible]	[illegible]	[illegible]	[illegible]	19					
DETROIT [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.9	-3.8	[illegible]	30	-7.2	5	0	17	-1.7	65	54	-18	24	9	5	91	76	1.6	34	[illegible]	[illegible]	19	7	[illegible]	15	6.5	[illegible]
FLINT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.5	[illegible]	[illegible]	[illegible]	-9.4	5	0	15	[illegible]	64	139	37	69	6	1	439	432	[illegible]	33	15.6	[illegible]	19	7	8	15	6.4	
GRAND RAPIDS	[illegible]	[illegible]	[illegible]	9.4	[illegible]	4.3	-3.7	[illegible]	29	-8.3	5+	0	19	-1.1	70	[illegible]	17	[illegible]	12	5	[illegible]	[illegible]	[illegible]	34	[illegible]	[illegible]	19	7	5	17	6.7	[illegible]
HOUGHTON LAKE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-10.5	5	0	22	-4.4	62	67	7	27	10	4	114	75	[illegible]	34	[illegible]	22	19	[illegible]	10	13	[illegible]	
LANSING	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-3.4	[illegible]	[illegible]	-10.6	5	0	17	[illegible]	71	121	47	65	9	4	335	330	[illegible]	32	[illegible]	[illegible]	19	7	6	17	6.6	53
MARQUETTE	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1	0	18			61	-5	24	7		[illegible]	432			[illegible]	[illegible]	3	5	9	15	6.7	[illegible]
MUSKEGON	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-2.4	[illegible]	[illegible]	-7.2	12	0	19	[illegible]	67	78	-3	[illegible]	8	5	231	203	[illegible]	36	[illegible]	[illegible]	[illegible]	6	6	15	[illegible]	
SAULT STE MARIE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-3.2	[illegible]	27	-14.4	4	0	25	[illegible]	64	[illegible]	4	22	6	4	[illegible]	584	1.9	32	[illegible]	[illegible]	[illegible]	7	11	[illegible]	[illegible]	[illegible]
MINNESOTA																																
DULUTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	25	-20.6	4	0	18	[illegible]	74	55	-9	19	10	3	[illegible]	813	[illegible]	8	19.2	[illegible]	[illegible]	3	6	[illegible]	7.3	[illegible]
INTERNATIONAL FALLS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-2.9	[illegible]	25	-22.8	3+	0	24	[illegible]	61	46	4	28	[illegible]	[illegible]	[illegible]	[illegible]	1.7	9	14.3	[illegible]	[illegible]	5	6	[illegible]	[illegible]	
MINNEAPOLIS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.6	[illegible]	[illegible]	[illegible]	-12.8	1	0	14	-1.7	72	137	85	[illegible]	12	5	56	[illegible]	1.6	11	[illegible]	[illegible]	17	2	2	26	8.9	[illegible]
ROCHESTER	[illegible]	[illegible]	[illegible]	6.5	[illegible]	[illegible]	-2.7	[illegible]	22	-12.2	3+	0	10	[illegible]	74	93	33	37	15	4	64	127	1.6	11	15.6	3	[illegible]	2	4	24	8.6	
ST CLOUD	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.4	-3.7	[illegible]	[illegible]	-19.4	4	0	16			94	35	53	11		18	305						[illegible]	2	27	[illegible]	
MISSISSIPPI																																
JACKSON	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-1.2	[illegible]	[illegible]	[illegible]	4	0	1	[illegible]	74	129	11	43	11	5	0	0	1.1	16	[illegible]	[illegible]	[illegible]	5	7	18	7.4	[illegible]

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure		Temperature								No. of days			Average relative humidity	Precipitation			No of days		Snow, Ice pellets		Wind		Fastest mile (1 6 kilometers)			No of days (sunrise to sunset)			Sky cover, tenths (sunrise to sunset)	Possible sunshine
		Station Ø	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32 2 °C or above	Min. 0 C or lower	Average dew point		Total	Departure from normal	Greatest in 24 hours	.25 mm. or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10		
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m s		m s							%
MISSISSIPPI																																
MERIDIAN	88	1007.1	1018.3	22.9	9.2	16.1	-2.5	28.9	28+	0.0	4	0	1	10.6	76	195	66	65	10	7	0	0	0.5	16	11.2	27	30	6	7	17	7.3	
MISSOURI																																
COLUMBIA REGIONAL	270	983.7	1016.3	17.5	5.3	11.4	-1.4	28.3	27	-7.2	3	0	5	3.3	61	109	12	54	9	6	T	T	1.1	15	16.1	W	18	6	9	13	6.2	58
KANSAS CITY	309	977.7	1014.6	17.1	6.0	11.6	-1.2	29.4	17	-11.1	3	0	6	4.4	65	168	79	119	12	8	56	51	1.7	15	15.6	S	27	11	6	13	5.6	56
ST JOSEPH	247			18.7	2.8	10.8	-1.6	32.2	17	-16.7	3	1	14			118	37		8									9	7	14	6.2	
ST LOUIS	163	996.6	1017.0	18.1	5.7	11.9	-1.7	28.3	27	-5.6	3	0	7	5.6	70	116	16	54	8	5	T	T	0.8	13	16.5	SW	18	9	7	14	5.6	69
SPRINGFIELD	386	970.7	1015.7	19.5	5.6	12.6	-1.1	28.3	27	-7.2	3	0	5	5.0	63	88	-21	40	12	8	T	T	2.4	17	16.5	SW	29	10	10	10	5.3	72
MONTANA																																
BILLINGS	1087	887.9	1013.8	7.6	-1.9	2.8	-4.2	18.9	23	-10.0	1	0	19	-5.0	59	49	9	17	15	2	328	279	2.3	31	20.1	NW	28	3	7	20	8.0	64
GLASGOW	696	931.3	1014.7	6.4	-2.2	2.2	-3.8	18.9	23+	-19.4	1	0	20	-1.7	77	33	15	11	13	1	102	76	2.2	6	19.2	8	25	4	3	23	8.0	
GREAT FALLS	1116	885.9	1016.9	4.4	-5.6	-0.6	-6.9	15.6	2[illegible]	-21.1	6+	0	22	-5.0	77	118	88	36	18	0	742	610	2.6	26	13.0	NW	29+	2	5	23	8.4	39
HAVRE	788	921.4	1015.2	6.2	-4.3	0.9	-5.5	18.9	22	-25.6	6	0	19	-3.3	74	59	33	20	12	1	833	559	1.1	28	14.3	NW	28	1	6	23	8.2	45
HELENA	1167	878.4	1016.4	5.4	-4.4	0.5	-5.4	16.1	24	-15.0	6	0	25	-6.1	64	76	53	27	15	0	391	254	2.4	29	12.5	N	29+	2	5	23	8.3	41
KALISPELL	904	908.9	1014.9	9.6	-2.0	3.8	-1.7	16.1	22+	-11.1	1	0	21	-5.6	54	21	-5	11	7	0	T	T	1.3	6	13.0	W	4	3	7	20	7.8	
MILES CITY	801	918.7	1013.0	9.0	-1.4	3.8	-3.6	21.1	26	-11.7	2+	0	20	-0.6	77	69	37		14	3	269		2.1	35								
MISSOULA	972	901.8	1015.1	10.3	-2.3	4.1	-2.6	17.8	14+	-8.9	1	0	26	-2.8	67	26	0	11	11	0	76	25	0.7	1	12.5	W	23+	3	4	23	8.3	64
NEBRASKA																																
GRAND ISLAND	561	946.8	1013.3	14.1	2.9	8.6	-1.4	23.9	25	-13.9	3	0	7	2.8	72	70	7	18	12	6	66	51	1.4	15	17.0	30	28	6	9	15	6.9	
LINCOLN	359	971.2	1014.1	15.1	3.2	9.1	-1.6	25.6	25	-16.1	3	0	9	3.9	73	70	6	17	10	7	51	51	1.5	11	17.4	SW	28	7	10	13	6.6	49
NORFOLK	471			11.8	2.2	7.0	-2.2	23.9	25	-16.7	3	0	10			102	48	27	12		104	102						3	9	18	7.6	
NORTH PLATTE	846	913.6	1011.9	15.5	0.7	8.1	-0.7	29.4	26	-13.9	3+	0	13	0.6	65	45	-4	15	10	4	76	51	1.0	11	30.8	SE	8	5	9	16	6.8	55
OMAHA	298	979.0	1014.7	15.6	3.7	9.7	-1.6	28.3	17	-15.0	3	0	9	3.9	70	86	10	26	12	6	117	127	1.3	13	14.3	SE	7	7	6	15	6.8	46
SCOTTSBLUFF	1206	874.4	1010.9	14.7	-0.9	6.9	-0.9	30.0	25	-22.2	2	0	16	-2.2	59	45	7	14	10	1	272	284	0.7	34	18.3	31	27	5	10	15	6.3	
VALENTINE	789			12.8	0.4	6.7	-1.0	30.6	26	-16.1	3	0	13			21	-24	10	6		79	102			25.0	NW	28	6	8	16	6.8	66
NEVADA																																
ELKO	1539	840.2	1012.5	8.3	-2.2	3.1	-3.3	18.3	24	-10.6	8	0	22	-4.4	62	43	22	19	13	1	396	279	1.5	25	13.0	25	21	3	4	23	8.2	
ELY	1906	803.3	1011.5	8.1	-5.8	1.2	-4.0	17.8	24	-16.7	7	0	28	-5.6	63	30	5	7	8	1	396	76	1.1	21	14.8	S	5	1	12	17	7.3	54
LAS VEGAS	659	935.3	1011.8	20.0	7.3	13.7	-4.0	27.8	21	-0.6	2	0	1	-3.9	32	11	4	19	5	1	0	0	2.5	23	17.0	SW	25	15	9	6	3.7	84
RENO	1342	862.9	1013.5	11.9	-3.2	4.4	-3.8	18.9	21	-8.3	1	0	27	-5.6	54	16	4	9	7	0	12[illegible]	102	0.8	26	16.5	SW	24	6	8	16	6.6	77
WINNEMUCCA	1311	864.9	1013.1	12.4	-3.1	4.7	-2.6	19.4	22	-8.9	1	0	24	-6.7	47	13	-5	3	10	1	74	T	1.3	26	15.2	SW	24	3	7	20	7.5	41
NEW HAMPSHIRE																																
CONCORD	104	999.0	1011.7	11.4	-2.1	4.7	-2.1	21.7	30	-9.4	2	0	20	-3.3	60	63	-11	37	6	1	140	127	2.5	31	13.9	NW	26	6	8	14	6.2	62
MT WASHINGTON OBS	1909			-5.2	-12.1	-8.7	-3.5	5.6	19	-19.4	1	0	30			342	203	80	19	1	2268	813			70.2Y	W	20	2	8	20	8.4	35
NEW JERSEY																																
ATLANTIC CITY	20	1012.2	1014.8	13.2	2.2	7.7	-3.2	23.9	19	-5.0	14	0	12	1.1	66	99	13	34	6	1	T	T	2.9	30	17.4	29	3	8	8	14	6.1	57
ATLANTIC CITY C	3			11.6	3.9	7.7	-2.6	20.0	19	-3.3	5	0	8			100	18	44	7						18.3	W	3					
NEWARK	2	1012.9	1013.8	13.5	3.5	8.5	-2.4	24.4	19	-3.3	5	0	9	-2.2	50	58	-29	25	8	2	T	0	3.4	31	18.8	31	4	9	9	12	5.9	
TRENTON U	17			13.7	3.5	8.6	-2.6	22.2	19	-3.9	5	0	7			85	5	32	7		T	T			21.0	NW	4	10	7	13	5.9	63
NEW MEXICO																																
ALBUQUERQUE	1619	834.1	1010.1	18.8	1.1	9.9	-3.3	27.2	2[illegible]	-5.6	9	0	12	-8.3	34	3	-10	2	2	1	5	T	2.1	22	20.1	SW	17	14	6	10	4.3	74
CLAYTON	1515			17.4	1.2	9.3	-1.1	26.7	25+	-8.9	3+	0	15			16	-16	14	3		33	25						18	4	6	4.1	
ROSWELL	1112	886.2	1009.7	22.6	4.7	13.7	-1.7	31.7	16	-3.9	9	0	4	-1.7	40	7	-5	4	4	1	0	0	2.2	22	18.6	W	17	15	8	7	3.8	78
NEW YORK																																
ALBANY	84	1003.1	1013.9	10.6	-1.0	4.8	-3.4	20.6	30	-5.0	13+	0	21	-4.4	53	55	-13	49	7	0	46	25	3.8	29	15.6	NW	4	6	8	16	6.6	50
BINGHAMTON	485	955.3	1015.2	7.4	-1.9	2.8	-4.3	20.0	30	-8.9	5+	0	18	-4.4	61	45	-36	23	9	0	112	51	3.0	30	16.1	NW	3	5	7	18	7.0	45
BUFFALO	215	990.2	1016.4	8.6	-0.4	4.1	-3.1	25.0	30	-8.3	5	0	17	-2.2	69	47	-33	17	9	2	381	330	1.9	29	19.2	SW	3	6	9	15	6.9	55
NEW YORK U	40	1010.2	1013.3	13.7	3.9	8.8	-2.3	23.3	19	-2.8	5+	0	6	-2.2	51	77	-7	26	7	2	T	0	2.6	31	13.4	W	3					61
NEW YORK KENNEDY	4	1013.2	1013.8	12.6	4.2	8.4	-1.6	21.1	19	-2.2	5	0	4	-2.2	52	80	-12	30	8	2	T	0	3.4	30	19.2	27	3	13	7	10	5.3	
NEW YORK LA GUARDIA	3	1012.5	1013.7	12.6	4.2	8.4	-2.6	22.8	19	-2.2	5+	0	5	-2.2	50	70	-20	26	7	2	T	0	2.8	30	19.2	W	3	8	10	12	5.8	
ROCHESTER	167	995.6	1016.3	8.9	-0.9	4.1	-3.8	22.8	18	-9.4	4	0	17	-2.8	66	36	-33	15	8	0	378	279	3.4	28	25.0	SW	19	9	7	14	6.3	57
SYRACUSE	125	1000.0	1015.1	9.2	-0.8	4.4	-3.7	22.8	30	-5.6	9	0	19	-2.2	66	51	-27	35	10	0	305	203	3.1	28	19.7	SW	19	6	8	16	7.0	49
NORTH CAROLINA																																
ASHEVILLE	652	941.1	1017.6	19.6	5.0	12.3	-1.0	29.4	28	-1.7	13+	0	6	3.3	62	15	-74	7	8	1	T	0	2.0	34	17.0	35	5	11	7	12	5.5	60

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation ground	Pressure		Temperature								No of days			Average relative humidity	Precipitation			No of days		Snow, Ice pellets		Wind					No. of days (sunrise to sunset)			Sky cover tenths (sunrise to sunset)	Possible sunshine
		Station ○	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min 0 °C or lower	Average dew point		Total	Departure from normal	Greatest in 24 hours	25 mm or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Fastest mile (1.6 kilometers) Speed	Direction	Date	Clear 0-3	Partly cloudy 4-7	Cloudy 8-10		
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
NORTH CAROLINA																																
CAPE HATTERAS R	2	1016.3	[illegible]	17.6	[illegible]	13.3	-1.7	24.4	30	-0.6	8	0	[illegible]	9.7	77	[illegible]	33	[illegible]	8	2		0	1.1	32	14.3	[illegible]	5	10	6	14	[illegible]	[illegible]
CHARLOTTE	224	989.5	1017.1	21.4	8.6	15.0	-1.0	31.1	26	-0.6	5+	0	2	5.6	54	63	-43	26	8	2		0	1.1	25	16.1	[illegible]	3	10	5	15	[illegible]	[illegible]
GREENSBORO	273	985.1	1016.8	[illegible]	[illegible]	13.7	-1.1	27.2	26	-1.7	13	0	2	[illegible]	62	51	-29	16	9	3		0	1.6	27	17.4	[illegible]	3	12	5	13	[illegible]	[illegible]
RALEIGH	132	[illegible]	[illegible]	[illegible]	6.8	[illegible]	-2.1	28.3	[illegible]	-2.2	[illegible]	0	[illegible]	[illegible]	61	42	-35	18	8	[illegible]		0	1.3	27	[illegible]	[illegible]	3	11	[illegible]	13	5.7	[illegible]
WILMINGTON	[illegible]	1016.9	1017.4	[illegible]	11.1	16.8	-1.6	30.3	[illegible]	2.8	[illegible]	[illegible]	[illegible]	[illegible]	61	99	24	[illegible]	11	5		0	1.2	26	16.1	[illegible]	19	7	[illegible]	[illegible]	[illegible]	[illegible]
NORTH DAKOTA																																
BISMARCK	502	953.9	[illegible]	5.6	[illegible]	[illegible]	-4.2	21.7	27	-14.4	[illegible]	0	19	-1.7	76	139	[illegible]	41	18	5	[illegible]	559	[illegible]	9	[illegible]	[illegible]	[illegible]	[illegible]	3	26	[illegible]	[illegible]
FARGO	273	984.1	[illegible]	5.4	[illegible]	1.2	-3.6	15.6	25	[illegible]	[illegible]	0	19	[illegible]	83	[illegible]	24	26	14	1	[illegible]	[illegible]	[illegible]	11	[illegible]	[illegible]	[illegible]	3	[illegible]	24	[illegible]	[illegible]
WILLISTON	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.3	[illegible]	[illegible]	-16.1	[illegible]	0	12	[illegible]	83	71	4	24	14	2	262	432	[illegible]	7	17.9	[illegible]	[illegible]	3	3	24	[illegible]	[illegible]
OHIO																																
AKRON	[illegible]	[illegible]	[illegible]	12.4	[illegible]	[illegible]	-2.6	24.4	[illegible]	-6.7	12	0	19	[illegible]	63	45	[illegible]	[illegible]	11	4	66	[illegible]	1.9	31	[illegible]	[illegible]	3	4	11	15	[illegible]	
CINCINNATI ABBE OB	232			15.8	[illegible]	[illegible]	-2.6	26.7	[illegible]	-3.9	5+	0	6			71	-27		9						[illegible]	[illegible]	18+					[illegible]
CLEVELAND	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.4	-3.6	[illegible]	[illegible]	-7.6	8	0	16	[illegible]	58	33	-55	9	11	[illegible]	[illegible]	[illegible]	1.5	33	[illegible]	[illegible]	19	5	7	18	[illegible]	[illegible]
COLUMBUS	247	987.8	[illegible]	14.2	[illegible]	[illegible]	-2.5	[illegible]	[illegible]	[illegible]	6+	0	14	[illegible]	59	69	-25	26	11	3	T	-	1.2	31	[illegible]	[illegible]	19	9	7	14	[illegible]	[illegible]
DAYTON	[illegible]	981.4	[illegible]	14.3	[illegible]	8.4	-2.4	24.4	[illegible]	[illegible]	5	0	14	[illegible]	[illegible]	[illegible]	17	[illegible]	11	3	T	-	[illegible]	31	[illegible]	[illegible]	3	5	7	15	[illegible]	[illegible]
MANSFIELD	[illegible]			[illegible]	[illegible]	7.7	-4.3	[illegible]	[illegible]	-6.1	6+	0	17			50	-35	14	11	4	18	-	[illegible]	31	15.5	[illegible]	19+	7	7	14	[illegible]	
TOLEDO	[illegible]	992.6	[illegible]	[illegible]	[illegible]	5.9	-3.2	[illegible]	[illegible]	-7.2	11	0	17	-1.1	64	59	[illegible]	22	11	3	46	[illegible]	[illegible]	33	17.0	[illegible]	19	5	11	15	[illegible]	[illegible]
YOUNGSTOWN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.9	-3.8	[illegible]	[illegible]	-7.2	[illegible]	0	17	-1.1	65	41	-52	12	11	3	46	[illegible]	[illegible]	32	14.6	[illegible]	3	3	14	14	[illegible]	
OKLAHOMA																																
OKLAHOMA CITY	392	967.8	[illegible]	[illegible]	8.6	14.8	-1.9	[illegible]	[illegible]	-6.1	3	0	3	7.2	64	49	[illegible]	26	6	5	[illegible]	[illegible]	[illegible]	[illegible]	15.6	[illegible]	2	14	6	12	[illegible]	[illegible]
TULSA	[illegible]	[illegible]	[illegible]	20.3	[illegible]	15.0	[illegible]	[illegible]	[illegible]	[illegible]	4	[illegible]	2	7.2	61	[illegible]	[illegible]	[illegible]	9	8	T	-	3.8	14	19.2	[illegible]	[illegible]	9	[illegible]	11	[illegible]	[illegible]
OREGON																																
ASTORIA	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	29+	0	6	[illegible]	77	[illegible]	-18	26	16	0	26	-	1.3	26	[illegible]	[illegible]	17	[illegible]	5	17	[illegible]	
BURNS	[illegible]			[illegible]	-2.7	4.4	-3.4	[illegible]	[illegible]	-9.4	6	0	17			31	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	5	[illegible]	17	[illegible]	
EUGENE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-2.2	21.1	[illegible]	-2.2	6	0	7	4.4	63	74	15	[illegible]	17	[illegible]	T	-	[illegible]	21	[illegible]	[illegible]	[illegible]	3	[illegible]	[illegible]	[illegible]	
MEDFORD	[illegible]	[illegible]	1017.7	[illegible]	[illegible]	[illegible]	-2.6	21.7	[illegible]	[illegible]	6	0	14	[illegible]	65	32	[illegible]	9	[illegible]	[illegible]	[illegible]	-	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7	[illegible]	15	[illegible]	
PENDLETON	[illegible]	961.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21.1	[illegible]	-4.4	5	0	3	[illegible]	[illegible]	25	-1	9	8	0	50	[illegible]	[illegible]	25	17.4	[illegible]	[illegible]	5	[illegible]	15	[illegible]	
PORTLAND	[illegible]	[illegible]	[illegible]	13.7	[illegible]	[illegible]	-1.8	[illegible]	[illegible]	-1.1	6+	0	3	[illegible]	[illegible]	48	-4	14	14	0	T	0	[illegible]	26	12.5	[illegible]	2	[illegible]	5	16	[illegible]	54
SALEM	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-2.5	[illegible]	[illegible]	-3.3	5+	0	1	[illegible]	[illegible]	56	[illegible]	[illegible]	12	0	T	[illegible]	[illegible]	22	9.4	[illegible]	[illegible]	[illegible]	5	15	[illegible]	
SEXTON SUMMIT R	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-3.8	[illegible]	[illegible]	[illegible]	16+	0	[illegible]	[illegible]	81	62	[illegible]	[illegible]	16		[illegible]	[illegible]			13.4	[illegible]	[illegible]	5	4	21	[illegible]	
PACIFIC AREA																																
[illegible]	[illegible]			29.8	[illegible]	26.2	[illegible]	31.1	[illegible]	[illegible]	[illegible]	0	0			93	[illegible]	33	[illegible]			[illegible]			11.2	[illegible]	12					[illegible]
JOHNSTON	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	27	[illegible]	[illegible]	[illegible]	0	[illegible]	[illegible]	[illegible]	-51	[illegible]	[illegible]	1		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11	[illegible]	[illegible]	[illegible]
KOROR	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	23	[illegible]	0			254	[illegible]	[illegible]	[illegible]	0		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
KWAJALEIN	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	31.7	[illegible]	[illegible]	[illegible]	0	0			154	14	132	9	0		[illegible]	[illegible]	7	[illegible]	7	[illegible]	[illegible]	[illegible]	26	[illegible]	
MAJURO	[illegible]	[illegible]		28.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0			[illegible]	[illegible]	[illegible]	23			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
PAGO PAGO	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]	83	[illegible]	[illegible]	[illegible]	22	3		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
PONAPE	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	22.2	[illegible]	[illegible]	0			[illegible]	-71	[illegible]	26	[illegible]		[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TRUK, MOEN ISLAND	2	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	31.7	[illegible]	[illegible]	[illegible]	0	0			[illegible]	[illegible]	33	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
WAKE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
YAP	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12	2	0			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
PENNSYLVANIA																																
ALLENTOWN	[illegible]	[illegible]	[illegible]	13.2	[illegible]	[illegible]	-2.4	[illegible]	[illegible]	-4.4	5	0	15	[illegible]	55	89	-7	[illegible]	8	[illegible]	T	-	[illegible]	[illegible]	[illegible]	[illegible]	4	[illegible]	[illegible]	[illegible]	[illegible]	
ERIE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-3.3	[illegible]	[illegible]	-6.1	14+	0	[illegible]	-1.7	69	[illegible]	[illegible]	16	8	0	26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19	5	[illegible]	[illegible]	[illegible]	
HARRISBURG	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-1.7	14+	[illegible]	7			[illegible]	[illegible]	[illegible]	8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
PHILADELPHIA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-2.3	[illegible]	[illegible]	-3.3	[illegible]	0	[illegible]	-1.1	51	[illegible]	[illegible]	[illegible]	5	[illegible]	T	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
PITTSBURGH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-3.3	[illegible]	[illegible]	-5.0	4	0	13	[illegible]	54	[illegible]	[illegible]	16	[illegible]	[illegible]	[illegible]	15	[illegible]	[illegible]	[illegible]	[illegible]	19	[illegible]	[illegible]	15	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6.5	-2.6	[illegible]	[illegible]	-5.1	[illegible]	[illegible]	14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8	[illegible]	[illegible]	-	[illegible]	[illegible]	[illegible]	[illegible]	3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
WILLIAMSPORT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6.2	-3.7	[illegible]	[illegible]	-5.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	T	-	[illegible]	[illegible]	17.4	[illegible]	[illegible]	[illegible]	[illegible]	13	[illegible]	
RHODE ISLAND																																
BLOCK ISLAND	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	7			[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	-										
PROVIDENCE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-1.6	[illegible]	[illegible]	[illegible]	[illegible]	0	11	-1.7	57	[illegible]	[illegible]	[illegible]	9	[illegible]	[illegible]	-	[illegible]	[illegible]	[illegible]	[illegible]	3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SOUTH CAROLINA																																
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-1.3	[illegible]	[illegible]	[illegible]	5	[illegible]	[illegible]	[illegible]	64	[illegible]	[illegible]	[illegible]	9	[illegible]		0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6	[illegible]	[illegible]	[illegible]

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure		Temperature											Average relative humidity	Precipitation							Wind					No. of days (sunrise to sunset)			Sky cover, tenths (sunrise to sunset)	Possible sunshine
												No. of days							No. of days		Snow, Ice pellets				Fastest mile (1.6 kilometers)							
		Station Q	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min. 0 C or lower	Average dew point		Total	Departure from normal	Greatest in 24 hours	25 mm or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10		
SOUTH CAROLINA	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m s		m s							%
CHARLESTON U	3			21.3	13.1	17.2	-1.6	29.4	28	3.9	4	0	0					52			0	0			17.4	SW	19+					
COLUMBIA	65	1009.1	1017.3	24.3	10.5	17.4	-0.4	32.8	28	0.6	13+	1	0	9.4	63	117	27	67	8	2	0	0	0.8	27	13.0	27	3+	10	3	17	6.1	62
GRNVILLE-SPRTNBRG	292	982.4	1017.1	21.7	7.9	14.8	-1.3	31.1	29	-3.9	4	0	3	5.6	58	29	-81	15	8	1	0	0	1.0	27	15.2	SW	19	10	8	12	5.6	69
SOUTH DAKOTA																																
ABERDEEN	395	967.2	1014.8	8.2	1.3	4.8	-2.0	20.0	27	-18.9	3	0	9	1.7	83	66	16	20	18	2	13	381	2.8	9	17.4	12	8	0	5	25	9.0	
HURON	390	966.5	1014.0	8.7	-0.1	4.3	-3.3	27.2	27	-18.9	3	0	12	0.6	79	84	34	24	17	5	18	330	1.9	12	17.0	SE	8	2	5	23	8.6	24
RAPID CITY	964	900.4	1012.6	10.8	-1.4	4.7	-2.3	26.1	25	-17.2	2	0	19	-0.6	73	35	-18	19	10	3	33	76	2.5	36	25.5	NW	28	6	5	19	7.1	55
SIOUX FALLS	432	963.1	1015.5	9.7	0.8	5.2	-2.6	25.6	27	-15.0	3	0	12	1.1	78	62	4	25	14	3	T	178	2.1	13	14.8	13	20	1	5	24	8.7	
TENNESSEE																																
BRISTOL	459	963.1	1017.6	19.3	5.3	12.3	-1.2	27.2	28	-2.8	13	0	6	5.0	66	93	9	52	10	4	T	0	1.8	27	12.5	30	3	9	6	15	5.7	
CHATTANOOGA	203	993.2	1018.0	20.9	5.8	13.4	-2.4	28.3	29+	-2.2	13	0	4	5.0	60	26	-86	7	5	4	0	0	0.5	30	13.9	SW	18	10	5	15	5.9	59
KNOXVILLE	299	983.1	1018.1	20.7	7.6	14.2	-1.6	28.9	28	-1.7	4	0	4	5.6	61	62	-30	24	9	3	0	0	1.3	27	13.4	29	19	6	10	12	5.8	80
MEMPHIS	79	1007.5	1017.7	22.3	10.9	16.6	-0.3	30.6	27	1.7	4+	0	0	8.3	62	126	-11	33	11	8	0	0	1.4	17	13.4	31	28+	11	6	13	5.7	67
NASHVILLE	180	995.9	1017.6	20.7	8.7	14.7	-0.9	28.9	28+	0.0	4	0	1	6.7	62	90	-14	33	8	5	T	0	0.7	24	17.4	SW	19	8	10	12	5.9	60
OAK RIDGE R	276			20.2	5.2	12.7	-1.9	29.4	28	-3.3	4	0	8			60	-47	23	10		T	T			17.0Y		19	9	5	16	6.3	
TEXAS																																
ABILENE	544	949.9	1012.3	23.2	11.1	17.2	-1.3	31.7	17	-1.7	3	0	1	3.3	61	13	-50	9	3	4	0	0	3.9	17	18.8	S	7	9	8	13	5.9	67
AMARILLO	1098	887.2	1010.0	20.9	4.5	12.7	-0.9	30.6	25	-7.2	2	0	5	0.6	51	26	-5	14	4	1	T	0	3.8	20	19.2	17	7	17	3	10	4.3	73
AUSTIN	182	991.9	1013.9	25.1	14.7	19.9	-0.4	32.2	19	2.2	3	1	0	12.8	70	98	9	76	10	4	0	0	1.9	13	15.2	NW	28	3	8	19	7.7	50
BROWNSVILLE	6	1011.5	1012.2	29.4	20.3	24.8	1.0	34.4	[illegible]	10.0	1	8	0	18.9	75	T	-32	T	1	1	0	0	4.5	14	17.0	S	18	5	8	17	7.0	56
CORPUS CHRISTI	12	1011.2	1012.8	28.7	19.1	23.9	1.2	35.6	18	7.2	1	2	0	18.9	79	2	-53	2	3	0	0	0	5.0	12	17.0	SE	23	3	10	17	7.4	44
DALLAS - FORT WORTH	168	993.6	1014.7	23.2	13.1	18.2	-0.3	31.1	29	-0.6	3	0	1	11.1	68	86	-23	64	6	6	0	0	2.5	15	13.0	18	29	5	10	15	6.8	
DEL RIO	313	975.6	1011.1	27.8	15.4	21.6	-0.6	33.9	17	3.3	3	6	0	11.1	57	27	-13	21	5	3	0	0	3.3	11	11.2	9	26	5	7	18	6.9	
EL PASO	1194	879.1	1009.8	24.8	5.9	15.4	-2.3	33.3	22	-0.6	3	4	1	-5.6	26	T	-6	T	0	0	0	0	2.3	26	18.8	30	18	15	8	7	4.2	89
GALVESTON	2			22.4	17.9	20.1	-0.6	27.2	28	6.1	3	0	0			56	-11	17	8		0	0			17.0	NW	30					41
HOUSTON INTERCON	29	1011.5	1015.3	25.2	15.1	20.2	-0.6	31.1	25	3.3	3	0	0	15.6	78	122	32	40	11	6	0	0	3.0	11	13.4	28	29	2	4	24	8.4	29
LUBBOCK	992	900.4	1010.8	23.2	6.4	14.8	-0.7	32.8	17	-3.3	3	2	2	1.1	47	11	-16	6	5	2	T	0	2.6	20	18.3	18	7	13	7	10	4.9	69
MIDLAND	869	913.0	1010.4	26.0	8.4	17.2	-0.7	36.1	17	-1.7	3	6	1	2.8	45	2	-19	2	3	1	0	0	2.2	19	17.0	29	18	14	5	11	4.8	
PORT ARTHUR	5	1015.2		24.0	14.7	19.4	-1.1	28.9	29+	2.2	3	0	0	15.0	79	96	-11	30	10	6	0	0	3.6	11	18.3	NW	30	3	1	26	8.4	37
SAN ANGELO	580	946.2	1012.2	24.8	11.7	18.2	-1.3	33.3	25	-0.6	3	2	1	9.3	56	22	-20	21	3	2	0	0	2.8	18	14.3	29	18	8	7	15	6.2	
SAN ANTONIO	240	985.4	1013.3	25.3	15.2	20.2	-0.7	32.2	18	0.0	3	1	0	13.3	70	68	4	24	12	5	0	0	3.1	11	17.9	NW	30	4	4	22	7.9	44
VICTORIA	32	1009.8	1013.9	26.7	17.4	22.1	0.6	31.1	25+	4.4	3	0	0	16.1	73	23	-45	10	8	3	0	0	3.2	13	22.4Y	S	18	1	6	23	8.5	
WACO	153	996.6	1014.5	23.1	12.6	17.8	-1.8	31.1	25	-2.8	3	0	1	11.7	71	116	14	61	8	7	0	0	2.7	15	17.0	31	29	3	8	19	7.7	
WICHITA FALLS	303	977.0	1013.4	23.9	9.7	16.8	-1.1	33.3	25	-4.4	3	3	2	8.3	61	75	-6	46	4	3	0	0	2.9	16	17.0	23	27	10	6	14	5.7	
UTAH																																
MILFORD	1533	841.5		12.2	-3.9	4.2	-4.3	21.1	24+	-12.8	2	0	25			15	-8	7	7		142	76			21.0	SW	25	4	17	9	6.6	62
SALT LAKE CITY	1286	867.3	1011.7	11.9	1.7	6.8	-2.7	21.1	24	-2.8	26+	0	9	-1.7	60	62	9	28	10	0	333	152	0.9	18	15.6	S	25	4	7	19	7.5	60
WENDOVER	1291	866.6	1012.0	11.6	1.4	6.6	-3.9	20.0	24	-6.7	2	0	11	-4.4	48	10	-2	3	8		18	0	1.5	32				2	7	21	7.9	
VERMONT																																
BURLINGTON	101	1000.7	1013.5	7.7	-2.1	2.8	-3.3	18.9	19	-8.9	12+	0	24	-3.3	67	43	-23	15	10	0	338	203	1.6	32	18.8	S	19	7	4	19	7.2	47
VIRGINIA																																
LYNCHBURG	279	982.4		17.9	5.3	11.6	-2.1	26.1	24	-3.3	13	0	4			59	-11	21	13		0	0			17.0	W	3	13	5	12	5.0	72
NORFOLK	7	1015.2	1016.2	16.6	6.4	11.5	-2.8	29.4	25	-0.6	6	0	2	3.3	61	106	38	69	13	3	T	0	1.7	32	17.0	28	3	11	6	11	5.5	
RICHMOND	50	1009.8	1016.2	18.4	4.8	11.6	-2.7	27.8	24	-2.8	13+	0	6	2.2	58	71	0	33	12	2	0	0	1.2	30	15.6	NW	3	9	9	12	5.9	61
ROANOKE	350	974.3	1016.6	17.9	5.3	11.6	-1.7	26.1	24	-2.2	6	0	4	1.1	53	52	-19	17	11	2	T	0	2.2	30	19.7	29	3	12	5	13	5.5	
WALLOPS ISLAND	3			14.2	5.3	9.8	-2.5	29.4	19	-1.1	5	0	3			75	-3	41	9		T	T			28.6Y	W	3					
WASHINGTON																																
OLYMPIA	59			13.1	0.2	6.7	-2.3	20.6	30	-5.0	8+	0	17			48	-32	18	12	0	T	T			12.5	26	27	5	8	17	7.0	
QUILLAYUTE	55	1009.8	1017.5	11.5	1.1	6.3	-1.4	18.3	10	-4.4	1	0	12	2.8	80	131	-76	38	19	0	71	T	0.8	25	10.7	NW	27	3	6	21	7.6	30
SEATTLE U	6			12.4	4.6	8.5	-1.7	19.4	30	0.0	1	0	0			64	3	20	13		T	0			13.9	WSW	2					
SEATTLE-TACOMA	122	1000.7	1017.4	12.0	3.3	7.7	-1.6	19.4	30	-1.7	5	0	2	2.2	71	63	1	18	13	1	5	T	0.8	21	11.2	SW	2	6	3	21	7.2	56
SPOKANE	718	928.9	1013.6	10.7	0.0	5.4	-2.4	17.2	26+	-5.0	1	0	16	-1.7	64	45	17	18	15	1	130	-1	1.6	20	14.3	SW	27	2	8	20	7.7	48
STAMPEDE PASS R	1206	876.4		2.5	-2.9	-0.2	-2.2	10.6	30	-7.8	3	0	27			84	-84	27	15		691	3861						7	4	19	7.3	
WALLA WALLA U	289			14.3	3.8	9.1	-2.5	21.7	12	-1.7	5	0	1			31	-5	10	12		T	0			13.4	SW	27	6	6	18	7.0	40
YAKIMA	321	976.3	1015.2	16.1	0.2	8.2	-1.6	22.2	26+	-6.1	3	0	18	-2.2	51	10	-3	5	4	0	T	T	1.8	30	14.8	29	27	6	11	13	5.9	

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure		Temperature								No of days			Average relative humidity	Precipitation			No of days		Snow, Ice pellets		Wind		Fastest mile (1 6 kilometers)			No of days (sunrise to sunset)			Sky cover, tenths (sunrise to sunset)	Possible sunshine
		Station Ⓞ	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32 2 °C or above	Min 0 C or lower	Average dew point		Total	Departure from normal	Greatest in 24 hours	25 mm or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10		
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m s		m s							%
WEST INDIES																																
SAN JUAN P.R.	4	1014.2	1016.6	29.7	23.0	26.4	1.2	31.7	12+	21.1	4	0	0	19.3	62	25	-61	10	10	0	0	0	3.5	9	11.6	E	25	8	20	2	5.0	67
WEST VIRGINIA																																
BECKLEY	763	928.2	1017.5	14.8	2.6	8.7	-2.2	23.9	29	-6.7	6+	0	9	0.6	62	100	15	38	16	5	25	T	2.2	27	16.5	26	3	7	8	15	6.9	
CHARLESTON	286	983.4	1017.7	16.9	3.2	10.1	-3.2	26.1	29	-5.0	6	0	11	2.0	54	102	18	38	12	7	T	T	1.4	28	12.1	25	3	7	7	16	6.3	
ELKINS	594	945.5		13.3	-0.3	6.5	-3.3	22.8	23	-9.4	9	0	18			111	19	30	16		91	81						3	9	18	7.4	
HUNTINGTON	252	987.1	1017.5	17.7	5.3	11.5	-1.7	27.2	29	-2.2	6+	0	6	2.2	57	141	58	54	14	8	T	0	1.3	31	14.3	27	3	6	6	18	6.9	
PARKERSBURG	187			15.6	4.1	9.9	-2.6	26.1	30+	-3.9	6	0	7			112	24	52	13		T	0			19.2	W	3					49
WISCONSIN																																
GREEN BAY	208	992.6	1018.8	8.8	-1.2	3.8	-2.7	21.1	22	-10.0	1	0	17	-3.3	62	63	-9	21	9	2	T	25	1.6	2	14.8	SW	29	6	9	15	6.7	56
LA CROSSE	198	994.2	1019.4	10.1	0.3	5.2	-3.4	20.0	23	-9.4	4	0	16	-1.1	73	154	87		11	4	99		0.4	10								
MADISON	262	986.5	1018.5	10.9	-1.0	5.0	-2.4	25.6	23	-11.1	4	0	19	-0.6	76	106	39	72	11	3	150	127	1.1	7	11.6	SW	29	5	7	18	7.3	45
MILWAUKEE	205	993.2	1019.1	6.7	-0.4	3.2	-3.9	20.6	29+	-6.7	4	0	16	-0.6	79	104	34	50	9	4	264	152	1.7	3	18.3	SW	19	5	6	19	7.4	44
WYOMING																																
CASPER	1627	832.0	1011.2	9.3	-2.9	3.2	-2.8	23.9	25	-18.9	2	0	22	-4.4	62	25	-12	11	8	3	341	152	2.7	26	16.1	19	25	5	7	18	7.3	
CHEYENNE	1867	805.3	1009.9	9.8	-3.7	3.1	-2.9	24.4	25	-22.2	1	0	26	-7.2	53	12	-28	7	7	0	137	152	2.6	29	23.7	NW	27	9	7	14	6.1	60
LANDER	1696	823.6	1011.6	9.1	-3.6	2.7	-3.3	18.9	25	-17.2	2	0	23	-5.6	61	43	-17	16	11	1	881	330	3.5	24	19.1	SW	22	3	7	20	7.5	63
SHERIDAN	1209	874.7	1013.7	8.5	-3.6	2.5	-3.9	24.4	25	-18.9	2	0	24	-3.3	68	42	-11	16	14	2	368	152	2.5	32	17.0	SW	29	4	7	19	7.6	41

HEATING DEGREE DAYS

(Base 65°F.)

APRIL 1975

State and Station	Current season		Normals
	This month	Period July through this month	July through this month
ALABAMA			
BIRMINGHAM	[illegible]	2554	2824
HUNTSVILLE	199	3117	3270
MOBILE	[illegible]	1323	1684
MONTGOMERY	[illegible]	1966	2261
ALASKA			
ANCHORAGE	964	9939	10016
ANNETTE	727	6581	[illegible]
BARROW	2045	18666	17882
BARTER ISLAND	[illegible]	19322	17704
BETHEL	1332	12874	[illegible]
BETTLES	[illegible]	15266	14933
BIG DELTA	1075	13176	12861
COLD BAY	944	8677	8486
FAIRBANKS	[illegible]	13392	13585
GULKANA	1039	12750	12948
HOMER	960	9180	9171
JUNEAU	791	7878	8089
KING SALMON	1192	11366	11459
KODIAK	946	8421	7725
KOTZEBUE	[illegible]	[illegible]	14334
MC GRATH	1270	14150	13854
NOME	1545	13704	12804
ST. PAUL ISLAND	1120	10383	9463
SUMMIT	1293	13044	13032
TALKEETNA	1019	11074	10773
UNALAKLEET	1346	8761	12689
YAKUTAT	[illegible]	8294	8401
ARIZONA			
FLAGSTAFF	[illegible]	6814	6641
PHOENIX	107	1559	552
TUCSON	217	2197	1752
WINSLOW	518	5205	4895
YUMA	86	1152	1005
ARKANSAS			
FORT SMITH	217	3589	3319
LITTLE ROCK	196	3060	3333
CALIFORNIA			
BAKERSFIELD	192	2117	2163
BISHOP	552	4347	4130
BLUE CANYON	870	5171	5082
EUREKA U	547	4119	3997
FRESNO	325	2851	2590
LONG BEACH	227	1352	1512
LOS ANGELES	243	1442	1634
LOS ANGELES U	[illegible]	1408	1160
MT SHASTA R	753	5603	5341
OAKLAND	[illegible]	2397	2602
RED BLUFF	375	3065	2616
SACRAMENTO	389	2901	2703
SANDBERG R	733	4440	4023
SAN DIEGO	182	1293	1376
SAN FRANCISCO	424	2949	2712
SAN FRANCISCO U	336	2751	2629
SANTA MARIA	451	2841	2641
STOCKTON	335	3003	2724
COLORADO			
ALAMOSA	826	8662	7998
COLORADO SPRINGS	[illegible]	6149	5069
DENVER	[illegible]	5889	5683
GRAND JUNCTION	551	5811	5452
PUEBLO	472	5297	5219
CONNECTICUT			
BRIDGEPORT	604	5126	5212
HARTFORD	567	5935	6100
DELAWARE			
WILMINGTON	520	4713	4812
DIST.OF COLUMBIA			
WASHINGTON DULLES	473	4907	4874
WASHINGTON NATIONAL	345	3766	4139
FLORIDA			
APPALACHICOLA	44	1015	1361
DAYTONA BEACH	[illegible]	568	897
FORT MYERS	0	146	457
JACKSONVILLE	59	1168	1327
KEY WEST	[illegible]	7	64
LAKELAND U	6	370	678
MIAMI	0	59	206
ORLANDO	[illegible]	387	733
PENSACOLA	[illegible]	1106	1578
TALLAHASSEE	44	1547	1563
TAMPA	5	391	718
WEST PALM BEACH	5	112	299
GEORGIA			
ATHENS	[illegible]	2698	2955
ATLANTA	192	2871	3068
AUGUSTA	171	2643	2537
COLUMBUS	[illegible]	2094	2372
MACON	112	2057	2234
ROME	208	3781	3209
SAVANNAH	[illegible]	1537	1952
IDAHO			
BOISE	607	5379	5484
LEWISTON	[illegible]	4979	5148
POCATELLO	745	[illegible]	6589
ILLINOIS			
CAIRO U	224	3833	[illegible]
CHICAGO O HARE	643	6189	6212
CHICAGO MIDWAY	638	6063	[illegible]
MOLINE	593	6398	[illegible]
PEORIA	534	6083	5901
ROCKFORD	668	6781	6577
SPRINGFIELD	435	5421	5414
INDIANA			
EVANSVILLE	319	4423	[illegible]
FORT WAYNE	620	6123	5970
INDIANAPOLIS	[illegible]	[illegible]	5407
SOUTH BEND	634	5872	6182
IOWA			
BURLINGTON	525	6197	[illegible]
DES MOINES	539	6495	6498
DUBUQUE	706	7360	6981
SIOUX CITY	575	6963	6731
WATERLOO	[illegible]	7391	7147
KANSAS			
CONCORDIA	414	5577	[illegible]
DODGE CITY	357	4950	[illegible]
GOODLAND	524	5980	5848
TOPEKA	352	5245	5112
WICHITA	333	4844	4590
KENTUCKY			
COVINGTON	435	5014	4923
LEXINGTON	387	4547	4615
LOUISVILLE	333	4289	4535
LOUISIANA			
ALEXANDRIA	99	1865	[illegible]
BATON ROUGE	74	1458	1670
LAKE CHARLES	66	1339	1498
NEW ORLEANS	73	1295	1465
SHREVEPORT	124	2158	2162
MAINE			
CARIBOU	890	9095	8988
PORTLAND	746	6816	7011
MARYLAND			
BALTIMORE	435	4296	[illegible]
MASSACHUSETTS			
BLUE HILL OBS R	663	6019	6010
BOSTON	590	5284	[illegible]
WORCESTER	721	6646	6492
MICHIGAN			
ALPENA	868	7696	7913
DETROIT	643	5807	[illegible]
DETROIT METRO	714	6417	6139
FLINT	736	6574	6670
GRAND RAPIDS	750	7023	6487
HOUGHTON LAKE	836	7757	7838
LANSING	737	6733	[illegible]
MARQUETTE U	880	7576	7713
MUSKEGON	714	6542	[illegible]
SAULT STE MARIE	968	8657	8497
MINNESOTA			
DULUTH	[illegible]	9521	9078
INTERNATIONAL FALLS	950	9832	9917
MINNEAPOLIS	[illegible]	[illegible]	[illegible]
ROCHESTER	755	8150	7857
ST CLOUD	851	8864	[illegible]
MISSISSIPPI			
JACKSON	138	2066	2294
MERIDIAN	164	2167	2381
MISSOURI			
COLUMBIA REGIONAL	377	5361	4950
KANSAS CITY	381	5422	5038
ST JOSEPH	425	5541	5306
ST LOUIS	353	5002	4637
SPRINGFIELD	334	4674	4466
MONTANA			
BILLINGS	829	7183	[illegible]
GLASGOW	867	8040	8474
GREAT FALLS	1015	7556	7123
HAVRE	935	7990	[illegible]
HELENA	[illegible]	7978	[illegible]
KALISPELL	777	7816	[illegible]
MILES CITY	779	7417	7484
MISSOULA	765	7178	7333
NEBRASKA			
GRAND ISLAND	524	[illegible]	6201
LINCOLN	495	[illegible]	[illegible]
NORFOLK	604	[illegible]	6741
NORTH PLATTE	558	6797	[illegible]
OMAHA	469	6340	5881
SCOTTSBLUFF	609	6554	6403
VALENTINE	642	7019	[illegible]
NEVADA			
ELKO	[illegible]	[illegible]	6487
ELY	921	[illegible]	7103
LAS VEGAS	249	[illegible]	2591
RENO	746	5899	5549
WINNEMUCCA	730	6159	6121
NEW HAMPSHIRE			
CONCORD	730	7376	6987
MT WASHINGTON OBS	[illegible]	[illegible]	12320
NEW JERSEY			
ATLANTIC CITY	566	4794	[illegible]
ATLANTIC CITY U	[illegible]	4729	[illegible]
NEWARK	524	4721	4891
TRENTON	519	[illegible]	4812
NEW MEXICO			
ALBUQUERQUE	449	4757	4234
CLAYTON	479	[illegible]	4997
ROSWELL	269	[illegible]	3677
NEW YORK			
ALBANY	722	6890	6596
BINGHAMTON	833	7215	[illegible]
BUFFALO	764	[illegible]	6548
NEW YORK U	507	4619	4711
NEW YORK KENNEDY	531	4595	4987
NEW YORK LA GUARDIA	529	4683	4764
ROCHESTER	764	6443	6388
SYRACUSE	749	6482	6360
NORTH CAROLINA			
ASHEVILLE	331	[illegible]	4123
CAPE HATTERAS R	289	[illegible]	2684
CHARLOTTE	212	3238	3184
GREENSBORO	256	[illegible]	[illegible]
RALEIGH	293	3567	3466
WILMINGTON	160	2249	2426
NORTH DAKOTA			
BISMARCK	880	8876	8583
FARGO	867	[illegible]	8840
WILLISTON	[illegible]	8692	[illegible]
OHIO			
AKRON	620	5749	5960
CINCINNATI ABBE OB	437	4612	4719
CLEVELAND	691	[illegible]	5870
COLUMBUS	542	5336	5513
DAYTON U	530	5359	5462
MANSFIELD	676	[illegible]	[illegible]
TOLEDO	664	6271	6120
YOUNGSTOWN	717	6223	6126
OKLAHOMA			
OKLAHOMA CITY	235	[illegible]	3659
TULSA	205	3786	3652
OREGON			
ASTORIA	598	4432	4546
BURNS U	[illegible]	[illegible]	6605
EUGENE	548	3795	4317
MEDFORD	590	4550	4586
PENDLETON	517	4414	4950
PORTLAND	523	4038	4400
SALEM	584	4280	4424
SEXTON SUMMIT R	[illegible]	[illegible]	5657
PENNSYLVANIA			
ALLENTOWN	577	5515	[illegible]
ERIE	781	[illegible]	6435
HARRISBURG	520	5237	[illegible]
PHILADELPHIA	483	4524	4743
PITTSBURGH	617	5550	5696
PITTSBURGH U	564	5257	5107
SCRANTON	627	5727	6030
WILLIAMSPORT	648	[illegible]	5763
RHODE ISLAND			
BLOCK ISLAND	657	5127	5342
PROVIDENCE	606	5585	5677
SOUTH CAROLINA			
CHARLESTON	152	1941	2141
CHARLESTON U	128	1749	1904
COLUMBIA	136	2306	2586
GRNVLLE-SPRTNBRG	227	3200	3134
SOUTH DAKOTA			
ABERDEEN	725	[illegible]	[illegible]
HURON	[illegible]	7773	7710
RAPID CITY	728	7124	6871
SIOUX FALLS	701	7651	[illegible]
TENNESSEE			
BRISTOL	324	4030	4208
CHATTANOOGA	290	3691	3454
KNOXVILLE	257	3418	3431
MEMPHIS	180	2678	3205
NASHVILLE	241	3413	3651
OAK RIDGE	318	4033	3867
TEXAS			
ABILENE	[illegible]	2626	2599
AMARILLO	323	4393	4092
AUSTIN	53	1718	1737
BROWNSVILLE	5	552	650
CORPUS CHRISTI	13	862	930
DALLAS FT WORTH	112	2342	2382
DEL RIO	22	1454	1523
EL PASO	188	2935	2678
GALVESTON	28	934	1224
HOUSTON INTERCON	48	1334	1434
LUBBOCK	233	3639	[illegible]
MIDLAND	135	2546	2621
PORT ARTHUR	67	1454	1518
SAN ANGELO	101	2355	2240
SAN ANTONIO	41	1612	1570
VICTORIA	14	1004	1227
WACO	120	2344	2058
WICHITA FALLS	157	3020	2891
UTAH			
MILFORD	755	6476	6036
SALT LAKE CITY	513	[illegible]	5658
WENDOVER	629	5778	5536
VERMONT			
BURLINGTON	831	7367	7482
VIRGINIA			
LYNCHBURG	362	[illegible]	4148
NORFORK	382	3238	3435
RICHMOND	368	3972	3875
ROANOKE	361	4258	4206
WALLOPS ISLAND	460	4099	4123
WASHINGTON			
OLYMPIA	624	5004	4992
QUILLAYUTE	643	5101	5223
SEATTLE	522	4117	4325
SEATTLE-TACOMA	570	4584	4705
SPOKANE	694	6675	6364
STAMPEDE PASS R	995	7950	8247
WALLA WALLA U	493	4500	4611
YAKIMA	540	5448	5676
WEST VIRGINIA			
BECKLEY	514	5355	5350
CHARLESTON	445	4822	4467
ELKINS	632	6091	5676
HUNTINGTON	376	4449	4498
PARKERSBURG U	451	4752	4669
WISCONSIN			
GREEN BAY	779	[illegible]	7669
LA CROSSE	702	7422	7154
MADISON	714	7203	7361
MILWAUKEE	814	6960	7006
WYOMING			
CASPER	813	7513	7020
CHEYENNE	819	7142	6705
LANDER	836	7570	7337
SHERIDAN	852	7670	7165

COOLING DEGREE DAYS

(Base [illegible])

State and station	Current season: This month	Current season: Period January through the month	Normals January through the month
ALABAMA			
BIRMINGHAM	[illegible]	95	[illegible]
HUNTSVILLE	[illegible]	56	[illegible]
MOBILE	[illegible]	[illegible]	224
MONTGOMERY	[illegible]	108	147
ALASKA			
ANCHORAGE			0
ANNETTE		0	0
BARROW		0	0
BARTER ISLAND		0	0
BETHEL		0	0
BETTLES		0	0
BIG DELTA		0	0
COLD BAY		0	
FAIRBANKS			0
GULKANA			0
HOMER			0
JUNEAU			0
KING SALMON			0
KODIAK			0
KOTZEBUE			0
MC GRATH			0
NOME			0
ST. PAUL ISLAND			0
SUMMIT			0
TALKEETNA			0
UNALAKLEET			0
YAKUTAT			0
ARIZONA			
FLAGSTAFF	0	0	0
PHOENIX	42	54	176
TUCSON	[illegible]	15	120
WINSLOW	0	0	9
YUMA	[illegible]	84	[illegible]
ARKANSAS			
FORT SMITH	45	45	53
LITTLE ROCK	[illegible]	83	54
CALIFORNIA			
BAKERSFIELD	14	[illegible]	77
BISHOP		0	[illegible]
BLUE CANYON	0		0
EUREKA			0
FRESNO			41
LONG BEACH		6	33
LOS ANGELES		13	[illegible]
LOS ANGELES U		[illegible]	59
MT SHASTA R		0	0
OAKLAND			0
RED BLUFF			33
SACRAMENTO			[illegible]
SANDBERG R			[illegible]
SAN DIEGO			[illegible]
[illegible]			
SAN FRANCISCO			
SANTA MARIA			
STOCKTON			[illegible]
COLORADO			
ALAMOSA		[illegible]	
COLORADO SPRINGS			
DENVER			
GRAND JUNCTION			
PUEBLO	[illegible]	[illegible]	[illegible]
CONNECTICUT			
BRIDGEPORT			0
HARTFORD			[illegible]
DELAWARE			
WILMINGTON			0
DIST.OF COLUMBIA			
WASHINGTON DULLES	4	4	
WASHINGTON NATIONAL	[illegible]	13	7
FLORIDA			
APPALACHICOLA	[illegible]	155	221
DAYTONA BEACH	[illegible]	[illegible]	[illegible]
FORT MYERS	[illegible]	[illegible]	[illegible]
JACKSONVILLE	[illegible]	[illegible]	[illegible]
KEY WEST	[illegible]	1410	[illegible]
LAKELAND U	[illegible]	[illegible]	[illegible]
MIAMI	[illegible]	1152	[illegible]
ORLANDO	[illegible]	[illegible]	[illegible]
PENSACOLA	[illegible]	253	247
TALLAHASSEE	[illegible]	183	
TAMPA	[illegible]	[illegible]	[illegible]
WEST PALM BEACH	[illegible]	[illegible]	664
GEORGIA			
ATHENS	[illegible]	54	49
ATLANTA	[illegible]	50	[illegible]
AUGUSTA	[illegible]	[illegible]	[illegible]
COLUMBUS	[illegible]	113	[illegible]
MACON	[illegible]	113	[illegible]
ROME	[illegible]	52	38
SAVANNAH	[illegible]	205	[illegible]
HAWAII			
HILO	[illegible]	[illegible]	769
HONOLULU	[illegible]	1007	972
KAHULUI	[illegible]	[illegible]	[illegible]
LIHUE	[illegible]	[illegible]	[illegible]
IDAHO			
BOISE			
LEWISTON			
POCATELLO			
ILLINOIS			
CAIRO	[illegible]	[illegible]	51
CHICAGO O'HARE			
CHICAGO MIDWAY			
MOLINE			
PEORIA		0	[illegible]
ROCKFORD			
SPRINGFIELD	[illegible]	[illegible]	[illegible]
INDIANA			
EVANSVILLE	[illegible]	[illegible]	[illegible]
FORT WAYNE	[illegible]		
INDIANAPOLIS	3	3	[illegible]
SOUTH BEND			0
IOWA			
BURLINGTON			5
DES MOINES	3	3	0
DUBUQUE			
SIOUX CITY		0	[illegible]
WATERLOO		0	0
KANSAS			
CONCORDIA	14	[illegible]	10
DODGE CITY	[illegible]	22	[illegible]
GOODLAND	[illegible]	[illegible]	
TOPEKA	[illegible]	[illegible]	[illegible]
WICHITA	32	[illegible]	31
KENTUCKY			
COVINGTON	8	[illegible]	[illegible]
LEXINGTON	[illegible]	[illegible]	[illegible]
LOUISVILLE	[illegible]	[illegible]	[illegible]
LOUISIANA			
ALEXANDRIA	[illegible]	227	137
BATON ROUGE	[illegible]	[illegible]	[illegible]
LAKE CHARLES	[illegible]	[illegible]	247
NEW ORLEANS	[illegible]	291	255
SHREVEPORT	[illegible]	[illegible]	154
MAINE			
CARIBOU			
PORTLAND			
MARYLAND			
BALTIMORE	[illegible]	[illegible]	
MASSACHUSETTS			
BLUE HILL OBS R			0
BOSTON			0
WORCESTER			
MICHIGAN			
ALPENA			0
DETROIT			0
DETROIT METRO			
FLINT			
GRAND RAPIDS			0
HOUGHTON LAKE			
LANSING	0	0	0
MARQUETTE U	0	0	0
MUSKEGON	0	0	0
SAULT STE MARIE			0
MINNESOTA			
DULUTH			
INTERNATIONAL FALLS			
MINNEAPOLIS			0
ROCHESTER			0
ST CLOUD			
MISSISSIPPI			
JACKSON	[illegible]	185	163
MERIDIAN	[illegible]	78	159
MISSOURI			
COLUMBIA REGIONAL	[illegible]	[illegible]	[illegible]
KANSAS CITY	[illegible]	[illegible]	[illegible]
ST JOSEPH	[illegible]	[illegible]	
ST LOUIS	[illegible]	[illegible]	[illegible]
SPRINGFIELD	[illegible]	[illegible]	[illegible]
MONTANA			
BILLINGS			
GLASGOW		0	
GREAT FALLS			
HAVRE			
HELENA			
KALISPELL			
MILES CITY			
MISSOULA			
NEBRASKA			
GRAND ISLAND		[illegible]	
LINCOLN		[illegible]	
NORFOLK		[illegible]	
NORTH PLATTE	[illegible]	[illegible]	
OMAHA		7	
SCOTTSBLUFF		1	
VALENTINE	16	15	
NEVADA			
ELKO			
ELY			
LAS VEGAS			
RENO			
WINNEMUCCA			
NEW HAMPSHIRE			
CONCORD			
MT WASHINGTON OBS			
NEW JERSEY			
ATLANTIC CITY			
ATLANTIC CITY U			
NEWARK	0		
TRENTON			
NEW MEXICO			
ALBUQUERQUE			
CLAYTON			
ROSWELL	[illegible]	19	[illegible]
NEW YORK			
ALBANY			
BINGHAMTON			
BUFFALO			
NEW YORK U			
NEW YORK KENNEDY			
NEW YORK LA GUARDIA			
ROCHESTER			
SYRACUSE			
NORTH CAROLINA			
ASHEVILLE	[illegible]	[illegible]	[illegible]
CAPE HATTERAS R	[illegible]	31	[illegible]
CHARLOTTE	[illegible]	[illegible]	[illegible]
GREENSBORO	[illegible]	[illegible]	[illegible]
RALEIGH	[illegible]	25	[illegible]
WILMINGTON	[illegible]	107	[illegible]
NORTH DAKOTA			
BISMARCK			
FARGO			
WILLISTON			
OHIO			
AKRON			
CINCINNATI ABBE OB	7	7	[illegible]
CLEVELAND			
COLUMBUS			
DAYTON	2	2	
MANSFIELD	0	0	
TOLEDO	0	0	
YOUNGSTOWN	0	0	
OKLAHOMA			
OKLAHOMA CITY	53	[illegible]	[illegible]
TULSA	[illegible]	[illegible]	[illegible]
OREGON			
ASTORIA			
BURNS			
EUGENE			
MEDFORD		0	
PENDLETON			
PORTLAND			
SALEM			
SEXTON SUMMIT R			
PACIFIC AREA			
GUAM	[illegible]	[illegible]	[illegible]
JOHNSTON	[illegible]	1395	[illegible]
KOROR	[illegible]	[illegible]	[illegible]
KWAJALEIN	[illegible]	[illegible]	1983
MAJURO	[illegible]	[illegible]	1929
PAGO PAGO	[illegible]	1886	[illegible]
PONAPE R	[illegible]	[illegible]	1885
TRUK	[illegible]	[illegible]	1941
WAKE	[illegible]	1410	1501
YAP R	[illegible]	[illegible]	[illegible]
PENNSYLVANIA			
ALLENTOWN		0	
ERIE		0	
HARRISBURG			
PHILADELPHIA			
PITTSBURGH			
SCRANTON			
WILLIAMSPORT			
RHODE ISLAND			
BLOCK ISLAND			
PROVIDENCE			
SOUTH CAROLINA			
CHARLESTON	[illegible]	121	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	119	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
SOUTH DAKOTA			
[illegible]			
[illegible]			
RAPID CITY			
SIOUX FALLS			
TENNESSEE			
BRISTOL	[illegible]	[illegible]	[illegible]
CHATTANOOGA	[illegible]	[illegible]	[illegible]
KNOXVILLE	[illegible]	[illegible]	[illegible]
MEMPHIS	[illegible]	[illegible]	[illegible]
NASHVILLE	[illegible]	[illegible]	[illegible]
OAK RIDGE	[illegible]	[illegible]	[illegible]
TEXAS			
ABILENE	[illegible]	[illegible]	[illegible]
AMARILLO	[illegible]	[illegible]	[illegible]
AUSTIN	[illegible]	[illegible]	228
BROWNSVILLE	[illegible]	[illegible]	[illegible]
CORPUS CHRISTI	[illegible]	[illegible]	437
DALLAS FT WORTH	[illegible]	[illegible]	119
DEL RIO	[illegible]	[illegible]	[illegible]
EL PASO	[illegible]	44	[illegible]
GALVESTON	[illegible]	[illegible]	256
HOUSTON INTERCONTINENTAL	[illegible]	[illegible]	[illegible]
LUBBOCK	[illegible]	[illegible]	[illegible]
MIDLAND	[illegible]	90	[illegible]
PORT ARTHUR	[illegible]	[illegible]	[illegible]
SAN ANGELO	[illegible]	[illegible]	[illegible]
SAN ANTONIO	[illegible]	232	237
VICTORIA	[illegible]	[illegible]	[illegible]
WACO	[illegible]	128	169
WICHITA FALLS	[illegible]	[illegible]	113
UTAH			
MILFORD			
SALT LAKE CITY			
WENDOVER			
VERMONT			
BURLINGTON			
VIRGINIA			
LYNCHBURG			
NORFOLK	[illegible]	[illegible]	[illegible]
RICHMOND	[illegible]	[illegible]	[illegible]
ROANOKE	[illegible]	[illegible]	[illegible]
WALLOPS ISLAND	[illegible]	[illegible]	
WASHINGTON			
OLYMPIA			
QUILLAYUTE			
SEATTLE			
SEATTLE-TACOMA			
SPOKANE			
STAMPEDE PASS			
WALLA WALLA			
YAKIMA			
WEST INDIES			
SAN JUAN P.R.	[illegible]	1587	[illegible]
WEST VIRGINIA			
BECKLEY			
CHARLESTON			[illegible]
[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
WISCONSIN			
[illegible]			
[illegible]			
[illegible]			
[illegible]			
[illegible]			
CASPER			
CHEYENNE			
LANDER			
SHERIDAN			

STORM SUMMARY

APRIL 1975

STATE	TORNADOES					HAILSTORMS				WINDSTORMS				LIGHTNING				@HEAVY SNOWSTORMS AND BLIZZARDS				# ICE STORMS				ϕ ALL OTHER			
	NUMBER	DAYS	DEATHS	INJURIES	† DAMAGE	DEATHS	INJURIES	†DAMAGE PROPERTY	†DAMAGE CORPS	DEATHS	INJURIES	†DAMAGE PROPERTY	†DAMAGE CORPS	DEATHS	INJURIES	†DAMAGE PROPERTY	†DAMAGE CORPS	DEATHS	INJURIES	†DAMAGE PROPERTY	†DAMAGE CORPS	DEATHS	INJURIES	†DAMAGE PROPERTY	†DAMAGE CORPS	DEATHS	INJURIES	†DAMAGE PROPERTY	†DAMAGE CORPS
Alabama	3	3			4						2	5														1		6	
Alaska *																													
Arizona												3																	
Arkansas	6	3			5			3	6			5				4													
California	2	1			4							5						1	2							1			
Colorado												4	2							3									6
Connecticut												4																	
Delaware	1	1		3	5						2	6																	
Florida	13	5		1	6							4				4												5	
Georgia	2	2			6			3	4			5																	
Hawaii *																													
Idaho																3				3									
Illinois	8	3		1	6			5			6	6				5		1	2	7						1		4	
Indiana	7	3		7	5						6	6				4				4				4				6	6
Iowa	3	2			3			4						1		6				2								5	
Kansas	2	1			3			5	5			5		1															
Kentucky											12	6				3													
Louisiana	17	2	2	2	5			4	2	1	2	6	2			4													
Maine																				5									
Maryland & DC										4	2	7	2													3			
Massachusetts											1	4																	
Michigan	2	2		16	5						2	5				4		4		4			1	2		1	4	5	
Minnesota								4								2								4				5	
Mississippi								2			4	5				4												2	2
Missouri	6	2	5	31	8			5	2		2	6	2	1		2	2			2						1		6	2
Montana																				6									
Nebraska	10	3			6							5																	
Nevada *																													
New Hampshire																				5									
New Jersey	1	1			4							5																	
New Mexico *																													
New York										1		2	2					2	1	2								4	
North Carolina								4	4		1	5																	
North Dakota								2	2																				
Ohio	1	1		3	6																							5	
Oklahoma	2	2		5	5			5	6			5				4													
Oregon												2														1			
Pacific Area *																													
Pennsylvania	1	1			3					1	10	6	4						2	5									
Puerto Rico *																													
Rhode Island												4				1													
South Carolina												4	2			3													
South Dakota								4										1		5									
Tennessee	5	3	3	72	6						16	5																	
Texas	13	3	3	6	6			2	2	1	4	2	2													4		6	2
Utah										4		4								5									
Vermont												6								6								4	
Virginia	2	1		8	5					1	2	7	2															4	
Virgin Islands *																													
Washington *																													
West Virginia	1	1			4						2	5																	
Wisconsin	1	1			4			2			2	5			1	4			2	2								5	
Wyoming *																													

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

APRIL 1975

Herbert J. Thompson, Office of Hydrology

Record or near record flooding occurred again during April. The areas involved this month were the Grand River Basin in Michigan, where record stages occurred on the Thornapple and Red Cedar Rivers, and in the Choctawhatchee, Yellow, and Escambia River Basins of Alabama and Florida, where flooding was the worst since the record flood of 1929.

Major flooding began in the Souris Basin in North Dakota during April, with crests reached in May, and occurred in the Red River of the North Basin in Minnesota and North Dakota.

The major flooding of March continued into April in the lower Ohio River Basin and southern Atlantic Coast Drainage with streams generally in recession. Significant flooding occurred in portions of the upper Mississippi Basin and major damage occurred in the lower Mississippi Basin.

These and other hydrologic events of unusual significance or involving loss of life or property damage are discussed in more detail below.

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	HUDSON BAY DRAINAGE		
Souris River Basin	Major flooding began in the Souris River Basin during April. Near record to record snowfall occurred over the basin the last week of March leaving an accumulation of up to 21 inches as of March 31. Water content of the snow cover was 2 to 3 inches over the U. S. portion of the basin and 1 to 2 inches over the Canadian portion except for the Moose Mountain area, where up to 4.5 inches of water was present. Precipitation during April was several times the normal amount with totals ranging to more than 7 inches. Additional snow accumulated during the period of the 5th-9th followed by a warming trend climaxed by a period of heavy thunderstorm activity on the 25th-28th. The U. S. Portion of the basin received from 1.5 to 2.5 inches of rain in 6-12 hours on the 25th. Additional heavy rain fell on the 27th and 28th with totals for the 4-day period as high as 7 inches and averaging 3 inches. The Canadian portion of the basin received 2 to 3 inches during this period. The combination of heavy rain on the melting snow brought the Souris River over flood stage from Sherwood to Westhope by the end of the month. Crests occurred in May except on the Des Lacs River tributary which rose sharply on the 29th to crest 3 feet over flood stage at Foxholm and fell below flood stage late on the 30th.	0	N.A.
Red River of the North Basin	Serious flooding occurred the latter part of April and into May over the basin. However, crests were in most cases substantially lower than those of 1969, which was the flood of record along the upper Red River and major tributaries. Water content of the winter's accumulation of snow as of the end of March was generally in the range of 1.5 to 2.5 inches except in the Red Lake River Basin where water contents of up to 5 inches were reported.	0	N.A.

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	HUDSON BAY DRAINAGE-Cont'd		
	Dry soil conditions from the previous fall and a favorable temperature pattern the first two weeks of April permitted much of the snow melt to be absorbed by the ground. However, general rains of more than an inch the middle of the month caused a rapid melt of remaining snow cover and a quick runoff which caused flooding. Heavy rains of 1 to 2 inches the last week of the month augmented the crests along the lower Red River below Oslo. Flooding on tributaries was generally relatively minor. However, crests of 12.4, 7.7, and 6.3 feet over flood stage occurred on the Wild Rice River at Hendrum, the Buffalo River at Dilworth, and the Red Lake River at Crookston, respectively, all in Minnesota. In North Dakota from 3 to 5 feet of flooding occurred along the Goose, upper Maple, and lower Sheyenne and Wild Rice Rivers. On the Red River flooding occurred from above Fargo, N. Dak., downstream into Canada with crests of 11 to 15 feet over flood stage at and above Grand Forks and 4 to 8 feet over flood stage below Grand Forks. Losses were heavy but primarily agricultural since the cities generally had adequate warnings to protect property. Barnes, Cass, and Grand Forks Counties in North Dakota were declared disaster areas.		
	ST. LAWRENCE DRAINAGE		
Lake Michigan Drainage in Michigan	Major, and in some cases, record flooding occurred in the Grand and Kalamazoo River Basins during April. Some damage was also reported along the St. Joseph River but no reporting stations went over flood stage. General rains fell over central Michigan the 18th and 19th with amounts of 3 to 4 inches over the headwaters of the Thornapple River and up to nearly 5 inches over the Red Cedar River Basin. Both are tributaries of the Grand River. On the Thornapple River crest stages at the U. S. Geological Survey station at Hastings and Caledonia were the highest since the record flood of 1947. However, official records at Caledonia began in 1951 and the April crest is the highest since that date. Record flooding occurred on the Red Cedar River at Williamston and East Lansing. The crest of 13.08 feet at Williamston exceeded the previous record of 12.0 feet, which occurred in 1947. At East Lansing, where the major damage occurred, the crest stage of 11.95 feet compares to the previous record of 11.58 feet, which also occurred in 1947. However, the historical flood of 1904 is reported to have reached a stage of 13.4 feet. Flood stage at both locations is 7 feet. By far the greatest damage occurred in East Lansing in Ingham County, where estimates by the Corps of Engineers indicate losses of $25,628,000 to private property and $3,550,000 to public property. An estimated 800 families were evacuated in the East Lansing area	?	34,226

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS-Continued

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ST. LAWRENCE DRAINAGE-Cont'd		
	with up to 100 businesses affected. Thousands of cars were abandoned throughout the area. Three deaths were indirectly related to the flooding when two youths were drowned while rafting on the Grand River at Diamondale and an elderly man was drowned in a flooded roadside ditch. On the Grand River a crest 4.4 feet over flood stage occurred at Lansing while downstream crests just over flood stage were reported at Grand Ledge and Ionia. Up to 300 homes were affected along the Portland-Ionia reach with losses estimated at $254,000. Along the Thornapple River approximately 150 homes and 150 mobile trailers were affected to some degree with losses estimated in excess of $2.2 million. On the Grand River below the mouth of the Thornapple some flooding occurred from Ada down to Comstock Park, where a crest 2.3 feet over flood stage was reported. About 200 homes were affected to some degree along that reach of the river. From 1 to over 2 feet of flooding was reported along the Kalamazoo River with losses in excess of $700,000 in the basin. Losses in excess of $1.2 million were estimated for the Paw Paw and St. Joseph Basins.		
Lakes Huron and St. Clair Drainage in Michigan	The storm of the 18th-19th also caused serious flooding on several streams in east-central Michigan. Rains of up to 5 inches fell over the upper Shiawassee River, about 3 inches over the Flint River Basins, and an average of 3.2 inches over the Clinton River Basin. While there was no snow cover at the time of this rain, streams were high from melting of an early April snowstorm. Most seriously affected was the Flint River Basin with losses estimated at over $7.2 million. Numbers of residents were evacuated in Flint where a crest 4 feet over flood stage occurred. Among the other communities affected were La Peer, Goodrich, and Ortonville. Much of downtown La Peer was flooded. In the Shiawassee Basin a crest 2.2 feet over flood stage occurred at Owasso with the communities of Fenton and Argentine also affected. Losses were in excess of $3 million. One death indirectly related to flooding occurred when a youth drowned near Owasso as his canoe capsized. Flooding on the Flint and Shiawassee Rivers was the worst since the record flood of 1947. Along the Clinton River flood stage was exceeded by 3.5 to 4 feet with estimated losses in the basin in excess of $3 million. Elsewhere losses of more than $3.3 million were incurred in Crawford County in the Sturgeon River Basin and nearly $500,000 along the Belle River and Mill Creek in St. Clair County. There are no reporting stations on these streams.	1	14,182
Maumee River Basin	The heavy rain over southern Michigan, discussed above, caused light flooding on tributaries of the Maumee River draining that area. Crests of 2.3	0	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS-Continued

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ST. LAWRENCE DRAINAGE-Cont'd		
	and 0.1 feet over flood stage occurred on the St. Josephs River at Montpelier, Ohio, and the Tiffin River at Stryker, Ohio, respectively.		
	ATLANTIC SLOPE DRAINAGE		
Coastal Streams in New England	Widespread urban and small stream flooding resulted from the storm of the 3d-4th, which deposited from 1 to 3.5 inches of rain over the lower elevations of New England. In general this flooding was of a minor nature. However, 60 people were evacuated at Goffstown, N. H., on the Piscataquog River, and the Mad River caused evacuation of 2 families at Waterbury, Conn. Minor lowland flooding occurred along the Connecticut River, which crested 1.2 feet below flood stage at Hartford. The spring snow-melt runoff began about mid-month resulting in lowland flooding again along the Connecticut River, which crested at flood stage at Hartford on the 22d.	0	N.A.
Hudson River Basin	Heavy rains on the 3d over the middle portion of the basin with 12-hour amounts of 1.8 to over 2.5 inches caused widespread small stream and some urban flooding. The Hoosic River crested slightly over flood stage at Eagle Bridge, and Schoharie Creek rose rapidly more than 8 feet to crest just below flood stage at Middleburg and Burtonsville, N. Y.	0	N.A.
James River Basin (Virginia)	Flooding continued early in April on the lower Appomattox River, a tributary of the James, as a result of heavy rains of 1 to 2 inches late in March, cresting about 2 feet over flood stage at Mattoaco on the 1st. A locally heavy shower on the 1st caused a crest one foot over flood stage upstream at Mattoax. These rains fell on wet soil with the stream already high from more serious flooding in March. There was no damage above that caused by the earlier March flooding.	0	G
Coastal Streams in North Carolina	Streams generally continued in recession from the major flooding of March with flooding continuing into April on the Roanoke, Neuse, and Cape Fear Rivers. However, locally heavy rains late in March and early in April caused a second crest above flood stage on the upper reaches of these streams. On the Dan River, a tributary of the Roanoke, a crest 11.5 feet over flood stage occurred at Paces, Va., on the 1st. Otherwise only minor flooding resulted. Kerr Reservoir on the Roanoke River reached a record high level of 318.85 feet, only 1.2 feet below the top of the dam and exceeding the record level of March. Crests on the lower Roanoke occurred late in April due to reservoir releases with flooding into May at Williamston.	0	N.A.
Coastal Streams in South Carolina	These streams also generally continued in recession from the major flooding of March. Locally heavy	0	25

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ATLANTIC SLOPE DRAINAGE-Cont'd		
	rainfall on March 31, April 2-3, and the 14th-15th, caused minor flooding or extended the period of flooding on portions of the Pee Dee, Saluda, and Edisto Rivers. The major crests occurred in March altho a secondary crests 4 feet over flood stage occurred on the Pee Dee River at Pee Dee on the 6th. Estimated losses of $25,000 due to loss of wages were reported on the Pee Dee River.		
Atlantic Coastal Streams in Georgia	Flooding continued from March on the lower Savannah, Ogeechee, and Altamaha Rivers as these streams receded from the major flooding in March. Above normal rainfall occurred over the southern portion of the area. Locally heavy amounts of 2 to 3 inches on the 3d-4th, 10th-11th, and 14th-15th caused a secondary crest on the Ogeechee and on the Savannah River at Millhaven-Wade where a crest nearly 4 feet over flood stage was reported on the 7th. Moderate flooding occurred in the Altamaha Basin with crests 7.5 feet over flood stage on the Ocmulgee at Macon on the 4th, 13.6 feet over flood stage on the Oconee at Milledgeville on the 3d, and 4.3 feet over flood stage on the Altamaha at Charlotte on the 16th. Minor flooding occurred on the Savannah River around Butler Creek and the Satilla River at Waycross. Flooding continued into May on the lower Savannah River at Clyo.	0	N.A.
	EAST GULF OF MEXICO DRAINAGE		
Suwanee and Ochlockonee River Basins	Heavy rains over southwest Georgia and northern Florida of 5-8 inches on the 10th-11th and an additional 1-2 inches on the 14th-15th caused some flooding on these streams. The Ochlockonee crested 5.4 feet over flood stage at Havana, Fla., with mostly timberland affected. Minor flooding occurred along the Withlacoochee River, a tributary of the Suwannee River, which crested just below flood stage at most points but reached flood stage at Ellaville and Branford, Fla. About 50 acres of farmland were inundated in Suwannee County, and damage to park buildings in Gilchrist County was estimated at $1,000. Backwater from the Suwannee River caused flooding along the lower Santa Fe River which crested 3 feet over flood stage at the U. S. Highway 129 bridge.	0	N.A.
Appalachicola River Basin	Heavy rains of up to 8 inches occurred over southwestern Georgia on the 10th-11th, up to 7 inches in northern Florida, and 12 inches in extreme southeastern Alabama on the 9th-10th. The most severe flooding in 27 years was said to have occurred along the Chipola River in Jackson and Calhoun Counties of Florida. Extensive flash flooding occurred along smaller tributaries of the Chipola, and 18 dwellings were flooded at Marianna. Extensive damage was reported at a mining company below Marianna. The Chipola is a tributary of the Appalachicola River from which no stage reports are received. In Calhoun County road damage was estimated at	0	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS-Continued

APRIL 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	EAST GULF OF MEXICO DRAINAGE-Cont'd		
	$155,000, and 55,000 acres were inundated with no loss estimate available. Light flooding also occurred on the Flint River tributary in Georgia from this storm. Additional rainfall of 2 to 3 inches on the 14th-15th caused more serious flooding along the Flint River with a crest 6.4 feet over flood stage at Albany, Ga., on the 17th. The Chattahoochee River Crested 6.2 feet over flood stage at Wm. F. George Lock & Dam. Downstream, the Appalachicola River continued over flood stage from March with a crest 8.3 feet over flood stage at Blountstown on the 18th.		
Chotowhatchee, Yellow, and Escambia River Basins	Major flooding, the worst in nearly 50 years, occurred over portions of these basins during April. Crest stages on Murder Creek in the Escambia Basin, the Yellow River, and the lower Choctawhatchee River were the highest since the record flood of March 1929 and approximated previously established 100-year flood frequencies. Rains which deluged southern Alabama for 21 hours on the 9th-10th totaled well over 17 inches at a maximum point near Enterprise, Ala., with the 14-inch isohyet encompassing an area approximately 20 miles wide and extending 80 miles in length from near Evergreen to Newton, Ala. Storm totals exceeding 4 inches covered almost all of south-central and southeastern Alabama with the axis of heavy rain oriented east-west across six drainage basins. Rains were conspicuously lighter over northwest Florida varying from one to two inches over most of the Panhandle, although 4 to 6 inch amounts did nose southward into Jackson County, Florida. Flash flooding was widespread over the heavy rain area with numerous roads and bridges washed out or underwater, farmland flooded, and livestock lost. The onset of heaviest rains began during the afternoon of the 9th with a continued rapid development and spreading of numerous thunderstorms northeastward from Mobile into Conecuh, Escambia, and Covington Counties. The thunderstorm area continued to enlarge with a very gradual eastward movement. Heaviest intensities over the area appeared to occur between about 6:00 p.m. on the 9th through 4:30 a.m. on the 10th with rainfall rates appearing to average 2 inches per hour during a four to six hour period. For the entire storm accumulations reflect primarily rains which occurred during the 21 hour period from 1 p.m. on the 9th through 10 a.m. on the 10th. The heaviest flooding involved 10 counties in Alabama and 6 counties in Northwest Florida, with the most serious flooding at communities located along the Choctawhatchee River, lower Pea River, Yellow River, Murder Creek, and Chipola River. Many such communities are highly exposed to flooding since they were originally established and later developed within flood plains. The primary synoptic feature on the 9th and 10th	1	24,384

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)

EAST GULF OF MEXICO DRAINAGE-Cont'd

was a quasi-stationary front parallel to the northern Gulf Coast. The conditions of very moist air at low levels south of the front, conditional instability, and lifting triggered by perturbations along the front, provided the ingredients for strong convective activity and heavy precipitation along and behind the stationary front.

The most serious flooding which resulted from the heavy rains occurred through Conecuh and Escambia Counties along Murder Creek where the communities of Brewton and Castleberry, Ala., are unprotected from flood waters. At Castleberry, which is 15 miles upstream from Brewton, 12 families were forced from their homes and one person drowned when his car was swept into Murder Creek after he ignored a police barricade. At Brewton, where Murder Creek rose to a stage of 19.9 feet, flood waters up to 7 feet in depth rampaged through most of the business and residential area. The creek crested at 5 a.m. on the 11th, with officials terming it a major disaster for the City. Damage figures topped $3.5 million, primarily to the business and industry of the Brewton-East Brewton area. Three out of every 4 businesses in the downtown area sustained heavy damage to stocks and merchandise. Some of the businesses failed to heed the early warnings and consequently had greater losses.

Civil defense officials reported that a major hinderance to flood preparedness was that several respected officials publicly discounted the National Weather Service forecasts in an effort to avoid alarming the public to a situation they believed would not occur, thus, discouraging protective measures which would have likely been taken. Accurate forecasts and warnings were given early and complete dissemination accomplished through the mass news media, civil defense, and other assistance agencies.

By early morning on the 10th, Civil Defense Rescue Teams and National Guard Units were stationed in Brewton, sandbagging and moving property and people above flood height. By the following morning waters were flowing too swiftly to provide assistance even by boat. Flooding forced the evacuation of about 220 families, with 60 homes and 96 businesses severely damaged. Problems were complicated when several large gasoline tanks broke loose and floated through parts of the city spilling raw gas onto the waters. One tank exploded near the city hall destroying a $100,000 city equipment shelter. Brewton was effectively cut off from outside access as surrounding roads throughout the county and into the city were flooded. Serious after effects followed the flood, such as broken sewer lines, pollution and mosquito control, and rebuilding of public streets and roads. For Brewton it was the greatest disaster since the flood of March 15, 1929.

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)

EAST GULF OF MEXICO DRAINAGE-Cont'd

Throughout the counties of Geneva, Holmes, and Washington along the Choctawhatchee River 2,000 to 2,500 persons were routed from their homes by flood water. At Geneva, Ala., where flood stage is 23 feet, a crest of 34.4 feet arrived 6:30 p.m. on the 11th. Homes outside the protection of the levee received heavy damage, many of which were almost totally submerged. Approximately 70 homes, 50 mobile homes and 7 businesses were flooded in the immediate area of Geneva. Damage to the city totaled nearly $700,000. Another $1.4 million in agricultural, public, and private damage affected the remainder of the county, with 30 to 40 other homes also flooded along the river. Downstream through Holmes and Washington Counties of northwest Florida and Choctawhatchee River swept southward. In Holmes County 500 families or approximately 1,500 people were evacuated. Nearly $4 million in damage occurred as 215 permanent homes, 282 mobile homes, and 81 businesses were flooded.

At Caryville, Fla., a crest of 18.4 feet occurred at 3:00 a.m., on the 13th. This was 6.4 feet above the 12 foot flood stage and just above the height where numerous homes begin to be affected. In the Caryville-Westville area approximately 1,000 persons were evacuated with flood water reaching a depth from 4 to 6 feet in many homes. Below Caryville, through Washington County, property damage dropped off considerably as the flood-prone area is mostly unpopulated.

Flooding also accompanied a crest moving down the Yellow River into northwest Florida. At Milligan, Fla., where flood stage is 12 feet, the crest arrived at 10 a.m. on the 12th, at 17.71 feet. Fourteen families were evacuated from the lower "Old Milligan" area of the city, which is particularly susceptible to flooding with a few of the homes flooded by 2 to 3 feet of water. Total damage to private property amounted to approximately $86,000. People were prepared for the flood with mobile homes and personal belongings moved above flood height. Other than to agriculture, little damage occurred either above or below Milligan. Several fishing camps were partially exposed to flooding downstream. Heaviest rains which contributed to flooding on the Yellow River fell essentially over the uppermost drainage of the basin.

Dollar estimates of damage during the 9th-11th flood were higher within the agricultural sector than any of the other combined public and private damages. Flooding struck during a very vulnerable period when crops were being planted or cropland prepared for planting. Most fields in southeast Alabama and northwest Florida were freshly plowed and loosely prepared at the time intense rains fell. Many reports were received of top soil being stripped from fields by the excessive runoff, carrying with it valuable fertilizer, chemicals, and seed. Terraces were heavily damaged with field

Basins and Streams | FLOOD EVENT | Lives Lost | Preliminary Estimate of Property Damage (thousands of dollars)

EAST GULF OF MEXICO DRAINAGE-Cont'd

washouts common.

Most counties subjected to flash flooding suffered 60% to 90% crop loss requiring replanting which was delayed by wet fields. Crops primarily affected included corn, peanuts, soybeans, and watermelon. Farm buildings and some machinery suffered damage along the rivers. In 6 counties of Alabama and northwest Florida, flood damage to agriculture alone ranged between $1 and $2 million.

Flood Damages

A breakdown on the 9th-11th flood damage has been compiled from information provided by various cooperative state, private, and federal agencies. This information follows by county:

County	Public Damage	Private Damage	Agricultural Damage
	ALABAMA		
Butler	17,500	0	0
Coffee	180,739	39,135	493,750
Conecuh	222,214	40,000	805,970
Covington	796,700	20,625	1,843,000
Crenshaw	9,000	16,625	295,000
Dale	255,077	44,443	1,755,000
Escambia	205,985	3,494,700	261,750
Geneva	207,280	501,077	1,400,000
Henry	45,000	13,500	177,500
Houston	0	0	2,765,000
Monroe	124,160	0	9,250
TOTALS	$2,063,655	$4,170,105	$9,806,220
	FLORIDA		
Calhoun	168,500	333,000	0
Gulf	71,000	250,000	121,730
Holmes	278,000	1,800,000	1,890,000
Jackson	30,000	155,000	1,500,000
Okaloosa	124,000	86,000	121,300
Walton	60,000	83,000	110,000
Washington	175,000	117,000	870,000
TOTALS	$906,500	$2,824,000	$4,613,030

Total Combined Flood Damage Alabama-Florida -- $24,383,510

Alabama-Tombigbee River Basins	Rains of 2-4 inches fell over the headwater tributaries of the Alabama River on the 2d-3d. Minor flooding occurred on the Oostanaula River. About 4 feet of flooding occurred on the lower Tallapoosa. On the Alabama River crests near flood stage occurred from Montgomery down to Selma, Ala. From 3 to 5 feet of flooding occurred on the lower Alabama. The Tombigbee was in recession from the serious flooding of March and was over flood stage during	0	660

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS-Continued

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	EAST GULF OF MEXICO DRAINAGE-Cont'd		
	the first week or two of April. Rains of 3 inches or more on the 14th-15th caused 3 to 5 feet of flooding on both the lower Alabama and extreme lower Tombigbee aided by the high water from the previous flooding. Losses estimated by the Corps of Engineers were primarily agricultural.		
Pearl River Basin	Monthly rainfall totals ranged from 4 to over 13 inches with Bogalusa, La., reporting 13.59 inches for the month. Most of this rain occurred during the week ending on the 15th with amounts of 2 to over 6 inches during that period. Bogalusa received over 5 inches during a 24-hour period the 14-15th which caused urban and small stream flooding from Coburn and Bogue Lusa Creeks. The Pearl River was in recession from the March flooding at the beginning of the month but continued over flood stage at and below Jackson, Miss., except at Columbia, during the early part of the month and until the 29th at Bogalusa. The storm of the 14-15th caused minor flooding at Carthage, 5 to 8 feet of flooding along the Monticello to Jackson reach, a secondary crest 4 feet over flood stage at Bogalusa and a crest 2.7 feet over flood stage at Pearl River, La.	0	N.A.
	UPPER MISSISSIPPI BASIN		
Mississippi River tributaries in Minnesota and Wisconsin	Precipitation was above to much above normal over all but the extreme north-central portions where it was slightly below normal. Departures were around 1 inch above in the east to 3.5 inches in the central. Rain fell on most days from the 13th on but especially the 22d-23d and the 26th-27th. At Minneapolis-St. Paul, the April rainfall of 5.40 inches was the heaviest April precipitation of record. The previous was 5.12 in 1896. The first storm, on the 22d-23d, produced one inch or more from southwestern Minnesota through north-central Wisconsin. A narrow band of 2 inches or more was recorded from near New Ulm, Minn., to Turtle Lake, Wis. The second and stronger storm, on the 26th-27th, yielded one inch or more over all but the northwest portion of the district. Four to as much as 5.5 inches was recorded in an area bounded by Soldier's Grove to Jim Falls, Wis., to near Red Wing, Minn. Streams were already high due to snowmelt and rainfall in early April. In Minnesota, flooding began as early as the 21st on the lower Minnesota River while flooding began in Wisconsin a few days later. In general the more significant flooding extended into May with crests also in May. However, crests of 1 to 3 feet over flood stage occurred late in April on the Trempealeau River at Dodge, Wis., the Root River at Hokah, Minn., the Black River at Galesville, Wis., the Chippewa River at Durand, Wis., and the lower Kickapoo River at Steuben, Wis. Minor flood crests occurred the end of the month on the St. Croix River at Stillwater, Minn., the middle reach of the Kickapoo River, and the Wisconsin River	0	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS-Continued

APRIL 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	UPPER MISSISSIPPI BASIN-Cont'd		
	at Portage, Wis.		
Rock River Basin	At the beginning of the month streams in the Rock Basin were in recession from the record flooding of March with the Rock River and lower Pecatonica above flood stage. Flooding ended by the 10th except for the Rock River at Afton, Wis., which continued over flood stage the entire month. Rains of 3 to 5 inches on the 27th-28th caused sharp rises on streams which crested just below flood stage except on the upper Pecatonica and the Kishwaukee River which reached or slightly exceeded flood stage.	0	N.A.
Mississippi River Tributaries in Iowa	There was no serious flooding in this area during April. Flooding continued from March on the Wapsipinicon River ending on the 3d. Rapid snowmelt caused several crests of 1 to 2 feet over flood stage on Blackhawk Creek and the upper Iowa River early in the month. Rains of 2 to 3 inches occurred the night of the 27th over the upper portions of the Des Moines, Iowa, Cedar, and the Raccoon River Basins. Crests were generally in the range of 1 to 3 feet over flood stage on the Winnebago and Shell Rock Rivers, the upper Iowa River, the Raccoon River Basin, and the upper Des Moines River. A crest 3.6 feet over flood stage was reported on the Des Moines River at Stratford. Bankfull stages to minor flooding was reported on portions of the South Skunk and Cedar Rivers. Flooding continued into May on a few streams.	0	N.A.
Illinois River (Illinois)	The heavy rains of late March caused flooding at Beardstown which continued into April cresting 1.2 feet over flood stage on the 5th. Minor flooding began at Meredosia on the 2d and at Havana on the 3d from this storm. Heavy rains of up to nearly 4 inches on the 18th-19th caused urban flooding in Chicago and flooding along the upper Illinois with crests about 2.5 feet over flood stage at Morris and LaSalle. Two periods of general rains of up to 2 inches on the 24th-25th and the 27th-29th caused a resumption of flooding with crests about 4 feet over flood stage at Morris and LaSalle. Flooding continued into May at and below LaSalle with downstream crests in May.	0	N.A.
Mississippi River Tributaries in Missouri	Flooding from the late March rains crested slightly over flood stage on the Meramec River at Pacific and Valley Park on March 31. Flooding began on the Cuivre River at Old Monroe on the 1st with a crest 6 feet over flood stage on the 10th resulting from the storm of the 8-9th. The storm of the 23-25th caused flooding along the Salt River, with a crest 7.6 feet over flood stage at New London, and in the Meramec River Basin. Crests of about 3 to 6 feet over flood stage occurred on the Bourbeuse River, the lower Big River, and the Meramec River below Sullivan.	0	N.A.
Upper Mississippi Main Stem	Snowmelt began during the last half of the month over the headwaters in northern Minnesota which,		2,700

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS-Continued

APRIL 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	UPPER MISSISSIPPI BASIN-Cont'd		
	combined with the heavy runoff from southern Minnesota and Wisconsin (discussed above) produced flooding from Libby in northern Minnesota down to Dubuque, Iowa, by the end of the month. This flooding continued into May with crests in May. Downstream, the Mississippi continued over flood stage from Hannibal, Mo., to Alton, Ill., receding from the flood crests of late March and ending by the 4th. Flooding also continued from the late March rainfall along the reach from Chester, Ill., to the mouth of the Ohio with crests of 1 to about 3 feet over flood stage early in April. Heavy runoff from Illinois and eastern Missouri due to the storm of the 24th-25th caused the Mississippi to return to flood conditions at and below Louisiana, Mo., except in the vicinity of St. Louis. Crests ranging from about 2 to 4.3 feet over flood stage occurred by the end of the month along this reach with flooding continuing into May at and below Grafton, Ill., except around St. Louis.		
	MISSOURI BASIN		
Missouri River Basin in North Dakota	Snow cover of more than 20 inches existed over the Knife, Heart, and Cannonball River Basins as of April 1. This was augmented by general precipitation of more than one inch over the area on the 7th-10th. A long period of warmer temperatures followed this storm with strong rises on all streams. Lowland flooding occurred along the Knife River with a crest 2.4 feet over flood stage at Hazen. Overflows were reported along Square Butte and Spring Creeks. Most seriously affected was the town of Beulah near the junction of Spring Creek and the Knife River where damage of $30,000 was reported to city property, mostly sewers. More than 200 people were evacuated from their homes in Beulah, and Highway 49 was closed there. About $10,000 worth of hay was lost at the Keogh Ranch south of Beulah. Several county bridges were washed out and an elderly man drowned when his car slid off a flooded county road. Minor flooding was reported along the Heart and James Rivers. The Missouri River crested 1.4 feet over flood stage at Washburn from the heavy inflow of the Knife River. Heavy rains totaling 2-3 inches on the 26th-29th again brought the Knife River over flood stage with a crest 1.6 feet over flood stage at Hazen on May 1.	1	N.A.
Missouri Basin in South Dakota	On the 30th heavy rain between the Bad and Cheyenne Rivers caused local lowland flooding. Unofficial reports indicated 5 inches of rain 20 miles northwest of Philip. No reporting stations went over flood stage.	0	N.A.
Little Sioux River (Iowa)	Moderate flooding occurred along the Little Sioux River late in April as a result of several periods	0	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS-Continued

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	MISSOURI BASIN-Cont'd		
	of rain during the month. On the 8th-9th rains of 0.5 to 1.0 inch combined with melting of snow in low lying areas to cause a rise to near flood stage at Spencer. On the 23d an average of 1.5 inches fell over the basin. On the 26th-27th amounts of 1.5 to 3.2 inches occurred. Flooding began at Spencer on the 23d and by the end of the month had extended down to Oto. Crests along the river above Correctionville ranged from 3.5 to 6 feet over flood stage with less flooding at and below Correctionville. Flooding continued into May along this entire reach. Damage was reported to roads, bridges, and culverts.		
Kansas River Basin	Several periods of heavy rain during April caused strong rises on a number of streams. Amounts of 0.75 to 1.0 inch on the 8th-9th followed by amounts of 1 to 2 inches on the 17th caused a crest near flood stage on the Vermillion River with many smaller streams at bankfull level. No flooding was reported. On the 23d-24th isolated amounts of up to 1.85 inches caused urban flooding in Assaria and inundated State Highway 40 near Elmo, Kansas. Amounts of 1.5 to 2.7 inches over the Stranger Creek Basin caused crests near flood stage at Easton and Tonganoxie with minor overflow.	0	N.A.
Lower Missouri Basin	Total rainfall for April was quite variable over southeastern Iowa and west central and northwest Missouri ranging from less than 2 inches at several stations to more than 8 inches in the Kansas City area. Average over the area was about 4 inches. Aside from locally heavy rain over the lower Grand River on the 18th-19th which caused a crest slightly over flood stage at Sumner, Mo., and over the lower Nishnabotna River on the 28th-29th which caused a crest 3.6 feet over flood stage at Hamburg, Iowa, most of the rain occurred on the 23d to 24th. This storm deposited amounts of about 3 to over 4 inches in a band more than 50 miles wide from Leavenworth County in Kansas to Chariton County in Missouri. The heaviest concentration was in Platte and Clay Counties, Missouri, just north of Kansas City. Flash flooding was general on small streams in these counties with numbers of cars abandoned at small stream crossings. One woman was drowned when she left her car and was carried downstream by Rush Creek. The Little Platte River Crested 10 feet over flood stage at Smithville, Mo., which put 4 feet of water on some streets in the town. About 150 people were evacuated from their homes in Smithville, but damage was relatively light as the flood waters receded quickly due to the local nature of the storm. Urban flooding was reported in several areas of northern Kansas City. Elsewhere in the area flooding occurred on the lower Grand River with a crest 6 feet over flood stage at Sumner, Mo. Up to about 4 feet of flooding occurred on the lower Chariton River, and as much as 7 to 8 feet of flooding on the Lamine and Blackwater Rivers. The heavy tributary inflow	1	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS-Continued

APRIL 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	MISSOURI BASIN-Cont'd		
	caused 1 to 2 feet of flooding on the Missouri River from above Boonville to below Jefferson City. While flooding of farmland was quite extensive along these streams, damage was light since crops had not been planted.		
	OHIO BASIN		
Monongahela River Basin	Above normal rainfall occurred during April over this basin with totals of 5 to 6 inches common. There were only 9 days without some precipitation. However, amounts were generally light except for the 24th-26th when up to more than 2 inches occurred. Light flooding resulted on the lower Monongahela with crests up to 2.5 feet over flood stage. The Youghiogheny River reached flood stage at Connellsville, Pa. Some street flooding occurred in towns along the lower Monongahela and the parking wharf in Pittsburgh was flooded.	0	N.A.
Middle Ohio River Basin	Rainfall ranged from 60 percent of normal over the upper Scioto Basin in Ohio to well above normal over central West Virginia. The major storm occurred on the 23d-25th with amounts generally in the range of 2 to 4 inches. This produced strong rises on many streams in the area with the Scioto River cresting within a foot of flood stage at Piketon, Ohio. A rise of more than 20 feet occurred at some points on the Ohio River. No stream flooding occurred but urban flooding was reported at Loveland on the Little Miami River in Ohio.	0	N.A.
Ohio River Tributaries in Kentucky	Flooding continued into early April from the heavy rainfall of late March on the lower Kentucky, Green, and Salt Rivers and the Cumberland River at Williamsburg. Damage estimates were included in the March report. Crests on the lower Green River occurred in early April and were in the range of 6 to 8.5 feet over flood stage. Rains of 4-7 inches on the 24th-25th caused severe flash flooding in parts of north central and eastern Kentucky. The main street of Neon was flooded by 3 to 5 feet of water. Crests on the lower Green ranged up to 5 feet over flood stage while 1 to 2 feet of flooding occurred on the Licking River. Thousands of acres of bottomland were again inundated along the lower Licking, Salt, and Green Rivers. Damage from the late April flooding is not available.	0	N.A.
Wabash River Basin	Flooding from the heavy rains of late March continued into April on the Little Wabash and the lower Embarras, White, and Wabash Rivers. Crests occurred early in April and were generally in the range of 4 to 6 feet over flood stage on the lower Embarras, White, and upper Little Wabash Rivers and 1 to 3 feet over flood stage on the lower Wabash River. A crest 8.4 feet over flood stage occurred on the lower Little Wabash at Carmi, Ill. Damage estimates for this period of flooding were included in last month's report. The storm of the 24th-25th deposited rainfall amounts ranging from over an inch	0	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS-Continued

APRIL 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	OHIO BASIN-Cont'd		
	in the headwaters to more than 5 inches over the lower portion of the basin. Flooding occurred on the Skillet Fork, Little Wabash, and the lower Embarras, White, and Wabash Rivers. Crest stages were generally within a foot or two of these which occurred earlier in the month. A crest 10.6 feet over flood stage occurred at Carmi, Ill., on the Little Wabash. The extensive flooding of low lying farmland, which extended into May, delayed cultivation of fields.		
Tennessee River Basin	The major flooding of March continued into April on the Middle Tennessee River at Decator and Florence, Alabama, ending by the 9th. The heavy rains of late March prolonged this flooding and caused an additional period of flooding downstream at Savannah, Tenn., with a crest 2.6 feet over flood stage on the 2d. The late March storm also caused a crest 5 feet over flood stage on South Chickamauga Creek near Chattanooga.	0	N.A.
Ohio River Main Stem	The major flooding which began in March continued into April. The Ohio was above flood stage from McAlpine Dam downstream to the mouth at Cairo, Ill. The amount of flooding on the lower Ohio was generally in the range of 8 to 12 feet but ranged up to the crest of 18.5 feet over flood stage reported at Ford's Ferry, Ky. The crest stage of 56.47 feet at Cairo was the second highest of record, exceeding the April 1973 crest by nearly a foot. Flood stage at Cairo is 40 feet. Flooding ended by the 15th but heavy inflow from the storm of the 24th-25th brought moderate flooding to many points on the lower Ohio from Tell City, Ind., downstream. Crests were substantially lower than those of early April and were in the range of 3-8 feet over flood stage. Flooding continued into May.	0	N.A.
	WHITE BASIN		
Black, White, and Cache Rivers	Major flooding continued into April on these streams. The Cache River crested 3.3 feet over flood stage on the 2d at Patterson, Ark., where flooding continued the entire month. Crests of 7 to 9 feet over flood stage occurred along the White River below Newport, Ark., with flooding continuing into May at Augusta, Clarendon, and St. Charles. The lower Black River receded to below flood stage by the 18th, but rains of up to 2 inches the 24-25th and 29-30th brought the lower Black River back over flood stage at Black Rock with flooding into May. These rains also prolonged the flooding on the Cache and White Rivers.	0	N.A.
	ARKANSAS BASIN		
Arkansas Basin	There was no new flooding in the basin during April. Flooding from the heavy rains of late March continued during the first week of April on the Deep Fork	0	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS-Continued

APRIL 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ARKANSAS BASIN-Cont'd		
	River at Beggs, Okla., the Fourche La Fave River at Houston, Ark., and the Arkansas River at Van Buren, Ark., where a secondary crest 1.8 feet over flood stage occurred on the 3d. Except for the Cottonwood Basin in Kansas, precipitation was generally well below normal with crops suffering damage from lack of moisture in some areas.		
	RED BASIN		
Sulphur River	Flooding from upstream rains in late March caused a few days of minor flooding at Naples, Tex., early in April. Rains during the second week of April averaged about 1.5 inches with 2 to 3 inches over the headwater on the 7th-8th, which caused 2 to 3 feet of flooding along the Sulphur River, affecting mostly grazing lands.	0	N.A.
Ouachita, Black, and lower Red Rivers	Flooding continued from March on the Ouachita River from above Camden, Ark., to below Monroe, La., and on the Black River. Flooding lasted the entire month of April at Monroe and along the Black River aided by rains of 5 to 7 inches during the month. The Ouachita crested about 5 feet over flood stage at Camden on the 2d. A broad flat crest, 2.2 feet over flood stage, occurred at Monroe the middle of the month and a period of minor flooding at Columbia Lock also occurred the middle of the month. A flat crest about 5 feet over flood stage also occurred along the Black River the middle of April. The lower Red River below Alexandria, La., was in flood the entire month due to the heavy inflow from the Black River and backwater from the Mississippi. There are no reporting stations along the lower Red. Losses were estimated by the Corps of Engineers and include $2,206,000 of crop damage with over 670,000 acres inundated. Only about 100 head of cattle were drowned but more than 13,000 were evacuated at a cost of $600,000. More than 400 families were displaced from their homes.	0	52,000
	LOWER MISSISSIPPI BASIN		
Hatchie and St. Francis Rivers	Minor flooding from the late March rains continued into April on the Hatchie River in Tennessee with a crest one foot over flood stage at Bolivar on the 2d. No reports were received downstream. The major flooding on the St. Francis River in Arkansas continued into April at St. Francis receding below flood stage there by the 16th. Downstream at Madison flooding began on the 4th with a crest 2.5 feet over flood stage on the 7th. Rains of up to 2 inches in amount on the 24th-25th and 29th-30th caused renewed flooding at St. Francis which continued into May further delaying farm operations.	0	N.A.
Yazoo, Big Black Rivers	The major flooding which began the middle of March continued into April. Rains totaling 4 to 6 inches occurred during the second week of the month extend-	0	G

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	LOWER MISSISSIPPI BASIN-Cont'd		
	ing the duration of flooding in the Yazoo Basin and causing another period of less serious flooding on the Big Black River. The Tallahatchie dropped below flood stage at Swan Lake, Miss., on the 25th. Downstream on the Yazoo River the major crest of nearly 5 feet over flood stage occurred at Yazoo City, Miss., on the 14th with flooding continuing into May. On the lower Yazoo flooding was aggravated by backwater from the Mississippi. Farming and lumbering operations were at a standstill thru April and hundreds of people evacuated in March continued to be housed in emergency quarters during April.		
Lower Mississippi Main Stem	Flooding which began in March, due mainly to the heavy inflow from the Ohio River, crested during April along the lower Mississippi. Peak stages ranged from about 10 feet over flood stage at New Madrid and Caruthersville, Mo., down to one foot over flood stage at New Orleans. There was no flooding at Arkansas City, Ark. The flood gates at Bonnet Carre spillway were opened during the period of the 14th-27th diverting about 2 million acre-feet of water to Lake Pontchartrain and taking about 2 feet off the crest at New Orleans. Diversions were also made upstream into the Atchafalaya River Basin. Near the end of the month a flood crest from the upper Mississippi caused flooding at New Madrid and Caruthersville which continued into May. Flooding also continued into May at Red River Landing and Baton Rouge, La., but ended late in April downstream due to the above mentioned diversions.	0	44,000
	WEST GULF OF MEXICO DRAINAGE		
Atchafalaya River	Flooding began early in the month along the upper river around Simmesport, La., and crested the middle of April as a result of diversions from the Mississippi River. On the lower river flooding which began at Morgan City, La., in February continued the entire month with a crest nearly 4 feet over flood stage on the 22d. Damage was confined to riverside structures and recreational facilities since cities involved are protected by levees. However, these losses were considerable.	0	N.A.
Calcasieu River	Rainfall over the basin ranged from 5 to 8 inches during April with several periods of heavy rain. The first of these periods on the 8th-10th caused the river to go over flood stage. The crest, 2.3 feet over flood stage on the 15th, followed another rainy period on the 13th-15th. A third period of rainfall on the 19th-21st caused a minor secondary crest on the 22d and prolonged the period of flooding.	0	N.A.
Eastern Texas Streams	Minor to moderate flooding occurred along the Sabine, Trinity, and lower Guadalupe Rivers and in the lower Neches River Basin as a result of two periods of heavy rainfall during April. Amounts of up to 3	0	N.A.

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	WEST GULF OF MEXICO DRAINAGE-Cont'd		
	inches fell on the 7th-9th and 14th-15th. The most significant flooding was along the Trinity River from Crandall to Long Lake with crests of 2 to 9 feet over flood stage. From 1 to over 3 feet of flooding occurred on the lower Trinity from Liberty to Moss Bluff which was caused in part by releases from Lake Livingston. Some flooding occurred along the Sabine River from Emory down to Longview. Crests were in the range of 1 to 3.5 feet over flood stage. In the lower Neches River Basin crests of 1.3 feet over flood stage occurred on Village Creek at Kountze and Pine Island Bayou at Sour Lake. These are smaller tributaries of the Neches northwest of Beaumont. On the lower Guadalupe two brief periods of flooding occurred at Dupont with crests 0.4 and 2.3 feet over flood stage.		

Note:

G Included in Previous Month's Damage Estimate

FLOOD STAGE DATA

[illegible]

River and station	Flood stage	Above flood stages—dates: From—	Above flood stages—dates: To—	Crest: Stage	Crest: Date
	Ft			Ft	
[illegible]					
[illegible]					
[illegible]	[illegible]	29	30	19.08	29
[illegible]					
[illegible]	[illegible]	22	[illegible]	23.61	May 6
[illegible]	21		1/	23.77	[illegible] 14
[illegible]	10	[illegible]	1/	15.69	May 16
[illegible]	14	[illegible]	1/	20.35	May 14
[illegible]	[illegible]	27	1/	1554.79	May 15
[illegible]	[illegible]	[illegible]	1/	37.14	[illegible] 14
Sawyer, N. Dak.	[illegible]	28	1/	23.72	May 16
Velva, N. Dak.	[illegible]		1/	1508.22	May 16
[illegible]	15		1/	17.53	May 15
[illegible]	11	[illegible]	1/	13.69	May 26
[illegible]	10	18	1/	16.54	[illegible]
[illegible]					
Abercrombie, N. Dak.	[illegible]	15	21	#15.16	18
Maple River:					
Enderlin, N. Dak.	[illegible]	17	May 3	#10.56	19
Mapleton, N. Dak.	12	17	20	#13.35	18
Sheyenne River:					
West Fargo, N. Dak.	16.5	17	27	#19.54	25
South Branch Buffalo River:					
Sabin, Minn.	12	13	19	13.82	14
Buffalo River:					
Hawley, Minn.	7	15	[illegible] 1	# 8.60	19
[illegible]	12	14	May 3	#19.68	[illegible]
[illegible]					
[illegible]	9.5	18	[illegible]	10.07	19
Hendrum, Minn.	17	14	May [illegible]	29.37	21
Goose River:					
Hillsboro, N. Dak.	7	17	21	[illegible]	19
Marsh River:					
Shelly, Minn.	15	18	21	#17.53	20
Clearwater:					
Red Lake Falls, Minn.	10	19	19	#10.30	[illegible]
Red Lake River:					
High Landing, Minn.	[illegible]	[illegible] 23	18 24	#10.26 # 9.15	17 24
Crookston, Minn.	[illegible]	18	[illegible]	#21.30	19
Snake River:					
Warren, Minn.	[illegible]	13	14	#845.4	14
Alvarado, Minn.	[illegible]	16	17	# 7.0	16
Two Rivers River:					
Hallock, Minn.	802MSL	30	[illegible]	#804.5	[illegible]
Roseau River:					
Roseau, Minn.	16	25	25	16.22	25
Red River of the North:					
[illegible]	17	16	May [illegible]	27.47	21
Halstad, Minn.	[illegible]	[illegible]	May 3	35.15	22
Grand Forks, N. Dak.	28	17	May 10	43.30	[illegible]
Oslo, Minn.	[illegible]	18	May 11	35.95	[illegible]
Drayton, N. Dak.	[illegible]	21	May 17	39.80	[illegible]
Pembina, N. Dak.	42	29	May 15	[illegible]	[illegible]
Emerson, Manitoba, Canada	81.5	30	May [illegible]	84.47	[illegible] 8
[illegible]					
Wolf:					
New London, Wis.	9	28	[illegible]	9.3	[illegible]
Battle Creek:					
Battle Creek, Mich.	4	20	22	4.44	21
Kalamazoo River:					
Comstock, Mich.	[illegible]	21	[illegible]	7.04	[illegible]
Fennville, Mich.	11	19	28	13.36	[illegible]
Thornapple River:					
[illegible]	[illegible]		[illegible]	9.10	21
[illegible]	[illegible]		[illegible]	10.97	22
Red Cedar River:					
Williamston, Mich.	[illegible]	18	25	13.08	19
East Lansing, Mich.	7	[illegible]	[illegible]	11.95	[illegible]
Grand River:					
Lansing, Mich.	11	18	[illegible]	15.4	[illegible]
Grand Ledge, Mich.	[illegible]	[illegible]	21	11.1	20
Ionia, Mich.	21	[illegible]	[illegible]	21.03	22
Comstock Park, Mich.	12	[illegible]	27	14.28	23
Lake Huron					
Shiawassee River:					
Owosso, Mich.	[illegible]	19	27	9.2	22
Flint River:					
Flint, Mich.	11	18	25	14.98	19
Clinton River:					
Fraser, Mich.	13	19	20	16.80	19
Mt. Clemens, Mich.	[illegible]	19	20	16.58	20
[illegible]					
Montpelier, Ohio	[illegible]	20	[illegible]	12.3	21
Tiffin:					
Stryker, Ohio	11	[illegible]	[illegible]	11.1	23
[illegible]					
Connecticut:					
Hartford, Conn.	[illegible]	22	22	16.0	[illegible]
Hoosic:					
Eagle Bridge, N. Y.	11	[illegible]	[illegible]	11.3	3
Appomattox:					
Mattoax, Va.	21	[illegible]	3	22.03	
Mattoaco, Va.	8	Mar 30	[illegible]	9.82	[illegible]
Dan:					
Danville, Va.	11	Mar 14	1	17.6	Mar 30
Paces, Va.	15	1	2	26.5	1
Roanoke:					
Randolph, Va.	21	Mar 30	1	23.9	[illegible]
Scotland Neck, N. C.	28	Mar 25	26	#30.31	17
Williamston, N. C.	10	Mar 19	[illegible]	12.1	15-23
[illegible]					
Smithfield, N. C.	13		[illegible]	13.2	3
Goldsboro, N. C.	14	Mar 18	2	24.3	[illegible]
Kinston, N. C.	[illegible]	Mar 20	[illegible]	21.4	Mar 28
[illegible]					
Huske Lock & Dam, N. C.	42	1	[illegible]	[illegible]	1
Elizabethtown, N. C.		Mar 15		A21.8	[illegible]
Lumber:					
Lumberton, N. C.	[illegible]	Jan [illegible]	[illegible]	[illegible]	Mar 21
Little Pee Dee:					
Galivants Ferry, S. C.	[illegible]	Mar 20	[illegible]	10.78	Mar 26

FLOOD STAGE DATA

(All dates in April unless otherwise specified)

APRIL 1975

River and station	Flood stage	Above flood stages —dates From—	To—	Crest Stage	Date
	Ft			Ft	
[illegible]—Cont'd					
Pee Dee:					
Cheraw, S. C.	30	1	[illegible]	32.86	1
Pee Dee, S. C.	19	Mar 15 18	13 19	A22.9 19.0	6 18
Broad:					
Blair, S. C.	14	1	1	[illegible]	1
Saluda:					
Chappells, S. C.	14	[illegible]	4	14.4	[illegible]
Wateree:					
Wateree Reservoir, S. C.	100	Mar 14	6	105.6	Mar 15
Santee:					
Jamestown, S. C.	10	Mar 19	16	21.28	Mar 23
North Fork Edisto:					
Orangeburg, S. C.	8	5 8 17	5 9 17	9.8 8.2 8.0	5 8 17
Edisto:					
Givhans Ferry, S. C.	10	Mar 21 15 25	4 23 [illegible]	11.6 10.7 10.2	Mar 26 19 25
Savannah:					
Augusta 8 SSE, Ga. (Butler Creek)	21	Mar 16 4 8	1 5 8	22.0 22.0 21.1	Mar 25 4 8
Millhaven-Wade 2 SE, Ga.	[illegible]	Mar 18	22	A18.9	7
Clyo, Ga.	11	Mar 18	1/	17.8	Mar 25-31
Ogeechee:					
Scarboro, Ga.	8	Mar 19	24	A 9.6	19
Eden, Ga.	[illegible]	Mar 19	29	A11.3	21-22
Ocmulgee:					
Macon, Ga.	18	[illegible]	5	25.5	4
Hawkinsville, Ga.	25	[illegible]	7	25.4	[illegible]
Oconee:					
Milledgeville, Ga.	[illegible]	3	[illegible]	33.6	3
Dublin, Ga.	21	6	9	25.9	7
Mt. Vernon, Ga.	16	8	12	18.7	9
Altamaha:					
Charlotte, Ga.	[illegible]	Mar [illegible] 9	[illegible] 27	23.3 19.3	Mar 25 16
Satilla:					
Waycross, Ga.	16	[illegible]	[illegible]	17.2	[illegible]
EAST GULF OF MEXICO DRAINAGE					
Withlacoochee:					
Pinetta, Fla.	[illegible]	18	18	[illegible]	18
Santa Fe:					
[illegible] Bridge, Fla.	[illegible]	[illegible]	[illegible]	[illegible]	17
Suwannee:					
Ellaville, Fla.	[illegible]	[illegible]	[illegible]	E27.0	[illegible]
Branford, Fla.	24	[illegible]	[illegible]	[illegible]	[illegible]
Ochlockonee:					
Havana, Fla.	25	[illegible]	[illegible]	30.4	[illegible]
Bloxham, Fla.	[illegible]	[illegible]	[illegible]	23.3	16
Flint:					
[illegible]	[illegible]	[illegible] 16	11 21	[illegible] [illegible]	[illegible] 17
Newton, Ga.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Bainbridge, Ga.	[illegible]	[illegible] [illegible]	[illegible] 20	[illegible] 26.9	[illegible] [illegible]
Chattahoochee:					
W. F. George Lock & Dam, Ga.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
EAST GULF OF MEXICO DRAINAGE-Cont'd					
Apalachicola:					
Blountstown, Fla.	15	Mar 15	26	A23.31	18
Choctawhatchee:					
Newton, Ala.	19	10	13	28.7	11
Geneva, Ala.	23	11	18	34.4	11
Caryville, Fla.	12	11	23	18.4	13
Yellow:					
Milligan, Fla.	12	12	14	17.71	12
Murder Creek:					
Brewton, Ala.	[illegible]	[illegible]	[illegible]	19.9	11
Conecuh:					
River Falls, Ala.	37	10	10	40.31	10
Brewton, Ala.	17	11	16	20.15	12
Escambia:					
Flomaton, Ala.	14	[illegible]	[illegible]	17.92	11
Century, Fla.	17	[illegible]	[illegible]	23.32	12
Oostanaula:					
Resaca, Ga.	22	2	2	23.0	2
Tallapoosa:					
Tallapoosa Water Plant, Ala.	25	4 16	5 17	#28.8 #27.1	5 17
Alabama:					
Montgomery, Ala.	35	4	5	#35.8	4
Millers Ferry Lock & Dam, Ala.	66	4 16	8 19	#70.9 #71.0	6 18
Claiborne, Ala.	40	5 17	10 21	42.9 43.2	8 19
East Fork Tombigbee:					
Fulton, Miss.	16	Mar 25	3	19.15	Mar 30
Tombigbee:					
Amory, Miss.	20	Mar 30	4	26.35	Mar 31
Aberdeen, Miss.	34	Mar 31	[illegible]	40.2	1
Demopolis Lock & Dam, Ala.	48	Mar 16 17	5 17	#61.5 #48.1	Mar 25 17
Coffeeville Lock & Dam, Ala.	43	Mar 16 15	13 21	#55.5 #47.6	Mar 28-29 19
Pearl:					
Carthage, Miss.	17	17	21	17.4	19
Jackson, Miss.	18	Mar 14 12	12 25	32.30 23.7	Mar 20 15
Monticello, Miss.	19	Mar 18	[illegible]	24.1	Mar 25
Bogalusa, La.	15	Mar 16	29	A19.03	16
Pearl River, La.	12	Mar 19 16	9 24	E15.5 14.67	Mar 24 18
Upper Mississippi Basin					
South Fork Crow River:					
Delano, Minn.	[illegible]	23	1/	12.70	May 1
Crow River:					
Rockford, Minn.	10	28	1/	12.89	May 3
Rum River:					
St. Francis, Minn.	6	22	1/	10.2	May 3
Minnesota River:					
Jordan, Minn.	20	25	1/	23.75	May 3
Chaska, Minn.	18	26	1/	21.80	May 5
Savage, Minn.	698	21	1/	705.50	May 4
St. Croix River:					
Stillwater, Minn.	87	28	1/	87.27	30
Chippewa:					
Durand, Wis.	11	25 29	27 May 1	11.63 12.1	26 29

FLOOD STAGE DATA

[illegible]	Flood [illegible]	[illegible] dates		Crest	
		[illegible]	To-	[illegible]	[illegible]
	Ft.			Ft.	
[illegible]					
Trempealeau River:					
[illegible]	[illegible]	[illegible]	[illegible]	10.1	29
[illegible]					
[illegible]	12	[illegible]	[illegible]	13.69	30
Root River:					
Hokah, Minn.	[illegible]	28	30	49.4	[illegible]
Upper Iowa River:					
[illegible]	[illegible]	[illegible]	30	E14.0	[illegible]
[illegible]					
Soldiers Grove, Wis.	[illegible]	[illegible]	30	723.5	29
Gays Mills, Wis.	[illegible]	28	30	698.5	29
Steuben, Wis.	8	28	[illegible]	9.37	30
Wisconsin River:					
Portage, Wis.	17	29	May 1	17.26	30
Wapsipinicon River:					
De Witt, Iowa	10	Mar 18	3	11.64	[illegible] 27-28
Pecatonica River:					
Darlington, Wis.	11	[illegible]	29	11.0	29
Shirland, Ill.	[illegible]	Mar 1	[illegible]	18.08	Mar [illegible]
Kishwaukee River:					
Perryville, Ill.	[illegible]	29	30	10.3	30
Rock River:					
Afton, Wis.	[illegible]	[illegible]	1	11.25	1-2
Rockton, Ill.	[illegible]	Mar 22	[illegible]	[illegible]	25
Rockford, Ill.	[illegible]	Mar 22	[illegible]	[illegible]	Mar 25-26
Joslin, Ill.	12	Mar 20	[illegible]	15.9	Mar 29
Moline, Ill.	12	[illegible]	[illegible]	14.1	[illegible] 30
Winnebago River:					
[illegible]	[illegible]	28	29	9.5	28
Shell Rock River:					
Marble Rock, Iowa	[illegible]	28	30	6.7	[illegible]
Shell Rock, Iowa	12	[illegible]	30	12.34	29
Blackhawk Creek:					
Hudson, Iowa	12	[illegible]	[illegible]	13.4	8
		10	11	#14.2	10
Cedar River:					
Charles City, Iowa	12	29	29	#12.0	29
Conesville, Iowa	11	10	23	11.59	16
		[illegible]	[illegible]	12.32	[illegible]
[illegible]					
[illegible]	13	[illegible]	[illegible]	#15.0	1
		[illegible]	10	13.81	9
		28	30	#14.94	28
Marengo, Iowa	14	10	13	#14.4	12
Wapello, Iowa	10	[illegible]	[illegible]	[illegible]	14
South Skunk River:					
Oskaloosa, Iowa	15	29	[illegible]	#15.27	29
West Fork Des Moines River:					
Estherville, Iowa	[illegible]	[illegible]	29	7.73	28
Humboldt, Iowa	[illegible]	28	[illegible]	[illegible]	[illegible]
North Raccoon River:					
Jefferson, Iowa	[illegible]	28	[illegible]	[illegible]	28, 29
Perry, Iowa	13	28	[illegible]	#13.9	28
South Raccoon River:					
Redfield, Iowa	14	28	28	[illegible]	28
Raccoon River:					
Van Meter, Iowa	13	[illegible]	29	#13.9	[illegible]
Des Moines River:					
Stratford, Iowa	14	30	[illegible]	[illegible]	[illegible]
Upper Mississippi Basin-Cont'd					
[illegible]					
New London, Mo.	19	23	30	[illegible]	26
Cuivre River:					
Old Monroe, Mo.	24	1	19	#30.00	16
Illinois River:					
Morris, Ill.	[illegible]	19	20	[illegible]	19
		27	30	[illegible]	28
La Salle, Ill.	[illegible]	[illegible]	22	#22.30	20
		24	[illegible]	#20.40	25
		[illegible]	[illegible]	24.15	29
Peoria, Ill.	18	29	[illegible]	#19.7	May
Havana, Ill.	[illegible]	3	15	[illegible]	4
		20	[illegible]	#17.0	May 3
Beardstown, Ill.	14	Mar 30	15	#15.2	5
		22	1/	#17.7	May [illegible]
Meredosia, Ill.	32	[illegible]	7	#32.3	[illegible]
		24	1/	#35.1	[illegible]
Bourbeuse River:					
Union, Mo.	15	25	[illegible]	#21.1	27
Big River:					
Byrnesville, Mo.	16	24	26	18.7	25
Meramec River:					
Sullivan, Mo.	15	24	25	15.5	24
Pacific, Mo.	[illegible]	25	28	24.07	27
Eureka, Mo.	18	[illegible]	29	22.2	27
[illegible]	16	[illegible]	[illegible]	#20.95	27
Mississippi River:					
[illegible]	13	24	1/	16.08	May 9-10
Aitkin, Minn.	15	23	1/	17.95	May [illegible]
Fort Ripley, Minn.	10	20	1/	12.15	May 2
St. Paul, Minn.	14	29	1/	15.50	[illegible]
Hastings, Minn.	[illegible]	[illegible]	1/	17.10	May 4
Red Wing, Minn.	14	27	[illegible]	14.90	May [illegible]
Lake City, Minn.	[illegible]	27	1/	17.58	May [illegible]
Wabasha, Minn.	[illegible]	24	1/	14.93	May [illegible]
Winona, Minn.	13	26	1/	16.60	[illegible]
La Crosse, Wis.	12	27	1/	14.51	[illegible] 2
McGregor, Iowa	18	[illegible]	1/	21.12	[illegible] 5
Guttenburg, Iowa (Dam 10 TW)	15	29	1/	19.38	[illegible] 5
Dubuque, Iowa	[illegible]	29	1/	22.8	[illegible]
Hannibal, Mo.	16	Mar 24	2	19.23	[illegible] 29
Louisiana, Mo.	[illegible]	[illegible]		18.66	30
		24	28	16.92	[illegible]
[illegible]	25	Mar [illegible]		29.17	Mar 30
		[illegible]	29	27.11	[illegible]
Winfield, Mo. (Dam 25 TW)	26	Mar [illegible]	[illegible]	29.75	Mar [illegible]
		25	[illegible]	27.72	27
Grafton, Ill.	18	[illegible] 28	4	20.86	Mar [illegible]
		24	1/	21.13	
Alton, Ill. (Dam 26 TW)	21	[illegible]	[illegible]	21.81	Mar 31
				24.49	27
Chester, Ill.	27	[illegible] 31		28.01	1
		26	1/	31.33	28
Cape Girardeau, Mo.	32	Mar [illegible]		35.29	[illegible]
		[illegible]	1/		
Thebes, Ill.	33	Mar 29		[illegible]	[illegible]
		27	[illegible]	35.90	29
Missouri Basin					
Knife River:					
[illegible]	[illegible]	21		23.35	
			May 1	[illegible]	
Little Sioux River:					
Spencer, Iowa	[illegible]			[illegible]	
[illegible]	12		1/	17.85	

FLOOD STAGE DATA

(All dates in April unless otherwise specified)

River and station	Flood stage	Above flood stages—dates From—	To—	Crest Stage	Crest Date
	Ft			*Ft*	
Missouri Basin-Cont'd					
Little [illegible]					
Peterson, Iowa	[illegible]	[illegible]	1	18.6	[illegible]
Cherokee, Iowa	17	28	1	20.7	May 1
Correctionville, Iowa	19	27	1	20.46	May [illegible]
Nishnabotna River:					
Hamburg, Iowa	18	28	[illegible]	21.6	28
Little Platte River:					
Smithville, Mo.	[illegible]	[illegible]	25	34.14	24
Grand River:					
Chillicothe, Mo.	24	[illegible]	25	25.1	24
Sumner, Mo.	26	[illegible] 23	19 27	26.04 31.89	19 25
Brunswick, Mo.	[illegible]	24	28	15.80	[illegible]
Chariton River:					
Prairie Hill, Mo.	15	23	25	18.7	24
Lamine River:					
Clifton City, Mo.	19	24	26	26.14	25
Blackwater River:					
Valley City, Mo.	22	24	26	29.9	25
Blue Lick, Mo.	25	[illegible]	[illegible]	U	
Missouri River:					
Washburn, N. Dak.	[illegible]	17	22	21.38	22
Boonville, Mo.	[illegible]	25	27	23.10	25
Jefferson City, Mo.	[illegible]	25	[illegible]	24.33	26
Ohio Basin					
Youghiogheny:					
Connellsville, Pa.	12	25	[illegible]	12.05	26
Monongahela:					
Charleroi, Pa. (Lock 4)	26	25	[illegible]	28.0	26
Elizabeth, Pa. (Lock 3)	20	[illegible]	26	20.2	26
McKeesport, Pa.	12	26	27	14.5	26
Braddock, Pa. (Lock 2)	[illegible]	26	27	20.9	26
Licking:					
Salyersville, Ky.	19	26	[illegible]	E21.0	26
Falmouth, Ky.	[illegible]	26	27	#29.58	26
North Fork Kentucky:					
Neon, Ky.	[illegible]	25	25	E13.0	25
Kentucky:					
Frankfort, Ky. (Lock 4)	31	Mar [illegible]	[illegible]	35.3	Mar 30
Lockport, Ky.	35	Mar 29	3	42.4	Mar 31
Brashears Creek:					
Taylorsville, Ky.	20	24	26	27.80	25
Rolling Fork:					
Boston, Ky.	[illegible]	Mar 29 26	2 27	46.15 E40.0	Mar 31 27
Green:					
Rochester, Ky.	[illegible]	Mar 31	[illegible]	39.66	[illegible]
Livermore, Ky.	20	Mar 14 28	15 1	A26.60 E20.8	4 May 2
Woodbury, Ky.	33	Mar [illegible] 26	[illegible] 27	E41.45 33.40	Mar 31 26
Calhoun, Ky.	23	Mar 14 27	16 1/	A30.9 E25.7	4 May 3
Spottsville, Ky.	27	Mar 15 27	10 1	34.8 E32.1	Apr 3 May [illegible]
Embarras:					
Lawrenceville, Ill.	11	Mar 29 24	[illegible] 1	15.10 14.07	2 29

River and station	Flood stage	Above flood stages—dates From—	To—	Crest Stage	Crest Date
	Ft			*Ft*	
Ohio Basin-Cont'd					
East Fork White:					
Williams, Ind.	8	1	3	8.2	2
White:					
Spencer, Ind.	14	Mar 29 24	2 29	16.79 17.24	Mar 30 27
Edwardsport, Ind.	15	Mar 29 25	5 1/	19.7 19.2	2 29
Petersburg, Ind.	16	Mar 13 25	8 1/	21.25 20.32	4 May 1
Hazelton, Ind.	16	Mar 13 25	9 1/	21.85 20.75	4 May 2
Skillet Fork:					
Wayne City, Ill.	15	24	27	18.9	25
Little Wabash:					
Wilcox, Ill.	16	1 24	4 1/	20.05 20.83	2 26
Carmi, Ill.	20	Feb 25 25	7 1/	A28.44 30.57	3 30
Wabash:					
Mt. Carmel, Ill.	17	Mar 13 27	7 1/	19.90 18.28	3 May 3
New Harmony, Ind.	15	Mar 30	7	A15.8	3
Cumberland:					
Williamsburg, Ky.	21	Mar 30	1	22.22	Mar 31
South Chickamauga Creek:					
Chickamauga, Tenn.	10	Mar 29	1	15.06	Mar 30
Tennessee:					
Decatur, Ala.	559MSL	Mar 13	9	569.91	Mar 15
Florence, Ala.	419MSL	Mar 13	6	425.92 422.69	Mar 14 Mar 20
Savannah, Tenn.	380MSL	Mar 31	6	382.61	2
Ohio:					
McAlpine Dam, Ky. (Lower)	55	Mar 31	3	56.0	1
Cannelton Dam, Ky. (Upper)	16	Mar 25	5	20.4	2
Cannelton Dam, Ky. (Lower)	42	Mar 25	5	45.8	2
Tell City, Ind.	38	Mar 15 27	6 1/	#44.45 #41.60	1 30
Owensboro, Ky. (Dam 46)	41	Mar 25	5	#43.4	Mar 31, 1
Newburgh, Ind. (Dam 47)	38	Mar 14 26	8 1/	#46.4 #43.7	2 30
Evansville, Ind.	42	Mar 27	5	#43.43	2
Cypress, Ind. (Dam 48)	38	Mar 15	6	#46.2	2
Mt. Vernon, Ind.	35	Mar 14 27	11 1/	#44.8 #39.2	2 30
Uniontown, Ky. (Dam 49)	37	Mar 15 28	12 1/	#47.7 #40.2	4 30
Shawneetown, Ill.	33	Mar 13 27	13 1/	#48.6 #39.8	4 30
Fords Ferry, Ky. (Dam 50)	34	Feb 24 26	13 1/	#52.5 41.7	3 30
Golconda, Ill.	40	Mar 15	12	#50.7	4
Paducah, Ky.	39	Mar 14	14	A51.37	3
Brookport, Ill.	37	Mar 12 28	14 1/	#53.2 #40.7	3 May 7
Cairo, Ill.	40	Feb 24 26	15 1/	56.47 47.1	3 May 2
White Basin					
Cache:					
Patterson, Ark.	7	Feb [illegible]	1/	10.3	2
Black:					
Pocahontas, Ark.	17	Mar 17	12	A23.75	1
Black Rock, Ark.	14	Feb [illegible] 26	18 1/	27.9 17.7	Mar 29 May 1
White:					
Newport, Ark.	26	Mar 28	11	E31.0	Mar 30

FLOOD STAGE DATA

(All dates in April unless otherwise specified)

River and station	Flood stage	Above flood stages, dates: From–	Above flood stages, dates: To–	Crest: Stage	Crest: Date
	Ft			Ft	
White Basin-Cont'd					
White-Continued:					
[illegible]	[illegible]	Jan 2	[illegible]	A36.70	1
[illegible]	21	Mar [illegible]	[illegible]	28.4	2
Clarendon, Ark.	[illegible]	Mar 2	[illegible]	32.8	6
St. Charles, Ark.	25	Mar 7	[illegible]	33.9	10
Arkansas Basin					
Deep Fork:					
Beggs, Okla.	18	Mar [illegible]	[illegible]	#20.6	Mar 30
Fourche La Fave:					
Houston, Ark.	25	Mar 28	[illegible]	32.00	Mar 30
[illegible]:					
Van Buren, Ark.	22	Mar 28	5	A23.8	3
Red Basin					
Sulphur:					
Hagansport, Tex.	[illegible]	[illegible]	11	46.38	8
Naples, Tex.	22	1 13	[illegible] 19	23.25 24.81	2 [illegible]
Ouachita:					
Camden, Ark.	26	Mar [illegible]	6	E30.7	[illegible]
Monroe, La.	40	Mar [illegible]	[illegible]	42.24	17-18
Columbia Lock & Dam, La.	65	10	23	65.3	17-21
Black:					
Jonesville Lock, La.	[illegible]	14	[illegible]	55.0	19-21
Acme, La.	[illegible]	[illegible]	[illegible]	53.2	18-20
Lower Mississippi Basin					
Hatchie:					
Bolivar, Tenn.	15	Mar [illegible]	[illegible]	15.94	2
Rialto, Tenn.	12	Mar [illegible]	[illegible]		
St. Francis:					
St. Francis, Ark.	[illegible]	8 26	16 [illegible]	23.90 19.85	Mar [illegible] May [illegible]
Madison, Ark.	32	4	14	34.5	7
[illegible]:					
Swan Lake, Miss.	[illegible]	Mar 14	25	29.2	Mar [illegible]
Yazoo:					
Yazoo City, Miss.	29	Mar 13	[illegible]	A33.7	14
Big Black:					
West, Miss.	12	Mar 13 [illegible]	[illegible] [illegible]	21.4 17.4	Mar 16 15
[illegible]:					
New Madrid, Mo.	[illegible]	Mar 15 29	15 [illegible]	#43.6 36.3	4 [illegible]
Caruthersville, Mo.	32	Mar 15 29	16 [illegible]	#42.4 #35.0	4 [illegible]
Memphis, Tenn.	[illegible]	[illegible] 20	[illegible]	#40.4	[illegible]
Helena, Ark.	44	Mar 28	17	#48.0	10
Greenville, Miss.	48	Mar 27	22	54.2	11
[illegible]	43	Mar 24	26	49.7	12
Natchez, Miss.	[illegible]	Mar [illegible]	28	54.4	14
[illegible]	45	Mar [illegible]	[illegible]	53.1	15-16
[illegible]	35	Mar 24	[illegible]	41.5	14-15
[illegible]	28	Mar 28	[illegible]	32.5	14
Reserve, La.	22	3	27	24.5	14
New Orleans, La.	17	8	16	17.99	14
WEST GULF OF MEXICO DRAINAGE					
[illegible]:					
Simmesport, La.	41		25	44.3	17-18
[illegible]					
[illegible]:					
[illegible]	[illegible]	[illegible]	26	48.2	[illegible]
Morgan City, La.	[illegible]	[illegible]	[illegible]	7.85	[illegible]
Calcasieu:					
[illegible]	[illegible]	[illegible]	27	14.32	[illegible]
Sabine:					
[illegible]	[illegible]	[illegible]	[illegible]	12.76	
Mineola, Tex.	[illegible]	[illegible]	21	17.55	[illegible]
Gladewater, Tex.	[illegible]	[illegible]	[illegible]	28.75	[illegible]
Longview, Tex.	[illegible]	[illegible]	24	37.17	[illegible]
[illegible]	[illegible]	[illegible]	15	14.01	[illegible]
[illegible]:					
Chireno, Tex. (near)	[illegible]	[illegible]	1	14.62	[illegible]
Angelina:					
[illegible]	[illegible]		[illegible]	A12.9	[illegible]
Village Creek:					
Kountze, Tex. (near)	[illegible]	[illegible]	20	13.33	[illegible]
Pine Island Bayou:					
Sour Lake, Tex.	[illegible]		21	26.33	
Neches:					
Diboll, Tex. (near)	[illegible]	[illegible]	[illegible]	A14.9	Feb 17
East Fork Trinity:					
Crandall, Tex.	[illegible]	[illegible]	10 1/	15.13 13.22	[illegible]
Chambers Creek:					
Corsicana, Tex. (near)	[illegible]	[illegible]	10	23.79	
Trinity:					
Dallas, Tex.	[illegible]	[illegible]	10	36.12	[illegible]
Rosser, Tex.	[illegible]	[illegible]	[illegible]	29.62	[illegible]
Trinidad, Tex.	[illegible]	[illegible]	16	37.13	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	40.93	[illegible]
Liberty, Tex.	[illegible]	[illegible]	27	25.15	[illegible]
Moss Bluff, Tex.	[illegible]	[illegible]	[illegible]	6.1 7.35	[illegible]
Guadalupe:					
Dupont, Tex.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

[illegible] In Flood at Beginning of [illegible]

RAWINSONDE DATA

Average monthly values

ALBANY, NY
[illegible] MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	30	36	1.8	-2.5	24	2.8
1000	24	146	1.9	-5.6	[illegible]	2.7
950	30	532	.7	-6.2	[illegible]	5.0
900	30	964	-1.7	-7.9	31	6.1
850	30	1,417	-4.0	-10.9	31	8.4
800	30	1,895	-5.3	-13.7	31	10.3
750	30	2,400	[illegible]	-15.5	31	10.9
700	30	[illegible]	-9.2	-20.2	31	11.9
650	30	3,507	-11.7	-22.5	30	13.5
600	30	4,116	-15.2	-25.7	30	14.6
550	30	4,768	[illegible]	-30.5	30	15.6
500	30	5,471	-23.6	-33.8	30	14.9
450	30	6,233	-29.0	-38.9	30	18.7
400	30	7,066	-34.6	-43.0	30	21.4
350	30	7,990	-40.7	-47.3	[illegible]	22.7
300	30	[illegible]	-46.3		29	26.2
250	30	10,223	-50.2		30	30.1
200	29	11,673	-51.2		30	25.7
175	29	12,540	-51.7		29	21.7
150	29	13,540	-51.8		29	19.5
125	29	14,720	-52.9		29	[illegible]
100	28	16,153	-55.0		28	12.1
80	28	17,575	-56.5		29	8.9
70	28	18,422	-56.7		29	5.8
60	27	19,404	-56.0		29	3.3
50	[illegible]	20,565	-55.8		29	1.7
40	[illegible]	[illegible]	-55.0		04	2.2
30	[illegible]	[illegible]	-53.6		[illegible]	2.9
25	[illegible]	[illegible]	-52.7		09	3.7
20	22	[illegible]	-51.3		10	3.6
15	[illegible]	[illegible]	-46.5		09	1.7
10	[illegible]	31,024	-43.5			
7						

ALBUQUERQUE, NM
[illegible] MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	29	1,619	[illegible]	-8.6	18	1.4
800	29	1,957	6.1	-9.7	23	4.1
750	29	2,482	2.9	-11.3	25	7.4
700	29	3,036	-1.7	-14.4	24	9.3
650	29	3,621	-6.0	-18.1	25	11.6
600	29	4,243	-10.2	-22.9	25	14.6
550	29	4,908	-14.2	-29.6	25	18.9
500	29	5,625	-18.9	-34.2	25	21.7
450	29	6,401	-24.1	-38.3	24	25.7
400	29	7,251	-29.5	-43.4	24	30.1
350	29	8,195	-35.8	[illegible]	24	34.6
300	29	9,247	-43.5		25	38.3
250	29	10,452	-51.0		25	41.7
200	29	11,884	-55.9		25	43.9
175	29	12,733	-56.3		25	41.4
150	29	13,711	-57.0		25	36.1
125	28	14,861	[illegible]		25	31.0
100	28	[illegible]	-62.8		25	24.6
80	26	17,618	-63.7		25	17.6
70	26	18,438	-63.0		25	12.1
60	26	19,387	-62.7		26	[illegible]
50	26	20,516	-61.2		26	4.0
40	25	21,913	-58.5		28	1.5
30	25	23,735	-55.9		30	1.6
25	23	24,905	-54.2		[illegible]	1.7
20	23	26,345	-51.5		[illegible]	1.8
15	21	28,224	[illegible]		28	2.7
10	16	30,908	-42.5		27	7.9
7	9	33,313	-39.5			

AMARILLO, TX
887 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	30	1,095	6.7	.3	22	2.4
850	30	1,449	[illegible]	-2.5	23	7.9
800	30	1,952	8.4	-6.5	25	10.3
750	30	2,482	5.0	-10.5	25	11.4
700	30	3,041	1.1	-14.7	25	12.3
650	30	3,633	-2.9	-18.8	24	13.6
600	30	4,261	-7.2	-22.5	24	16.0
550	30	4,933	-11.8	-28.3	24	18.9
500	30	5,656	-16.8	-33.1	24	22.5
450	30	6,439	-22.3	-37.3	25	25.0
400	30	7,294	-28.4	[illegible]	25	27.3
350	30	8,241	-35.2	-47.5	25	31.7
300	29	9,292	-42.8	-45.9	25	37.3
250	29	[illegible]	[illegible]		25	41.6
200	29	11,930	[illegible]		25	44.1
175	29	12,773	-58.4		25	41.9
150	29	13,742	-59.1		25	35.4
125	29	14,878	-61.5		25	32.4
100	28	16,258	-63.3		25	26.7
80	28	17,629	-63.9		26	15.6
70	28	18,447	-64.2		26	10.2
60	28	19,393	-62.7		25	7.3
50	26	20,522	-59.8		25	5.1
40	26	21,924	-57.7		27	3.4
30	24	23,742	-55.3		30	1.7
25	23	24,915	-53.5		29	2.0
20	22	26,362	-50.8		29	1.4
15	19	28,240	-46.8		27	4.8
10	9	30,952	-40.8			

* ANCHORAGE, AK
1005 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	30	45	-.9	-5.1	34	.4
1000	20	139	-1.2	-7.7	35	1.1
950	30	504	-2.0	-8.0	02	1.4
900	30	932	-4.5	-9.4	07	1.8
850	30	1,380	-7.0	-11.4	12	2.8
800	30	1,851	-9.1	-14.1	14	3.7
750	30	2,348	-11.4	-17.1	16	4.0
700	30	2,875	-14.1	-21.1	18	4.3
650	30	3,434	-17.3	-24.5	19	[illegible]
600	30	4,030	-21.1	-27.9	20	5.0
550	30	4,667	-25.3	-32.6	21	6.0
500	30	5,352	-30.3	-37.5	22	6.6
450	30	6,094	-34.9	-40.7	23	7.9
400	30	6,906	-40.8	-42.2	23	8.1
350	30	7,806	-46.7		24	8.6
300	30	8,815	-51.3		25	10.9
250	30	9,996	-51.7		26	11.2
200	30	11,449	-49.9		25	9.1
175	29	12,331	-46.8		25	7.8
150	29	13,344	[illegible]		25	7.4
125	29	14,541	-49.3		24	6.1
100	29	16,003	-49.8		25	4.6
80	29	17,460	-50.5		24	3.4
70	29	18,329	-51.2		25	2.6
60	29	19,330	-51.8		25	1.2
50	29	20,512	-52.2		16	.6
40	29	21,956	-52.3		10	1.2
30	29	23,816	-52.6		10	2.9
25	29	[illegible]	-52.6		10	3.9
20	28	26,439	-52.3		09	4.3
15	25	28,303	-52.0		09	6.3
10	18	30,944	-49.1		09	6.0

* ANNETTE, AK
1012 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	30	37	2.7	-.8	14	1.3
1000	26	153	3.5	-.5	14	1.5
950	30	546	[illegible]	-2.3	15	3.7
900	30	979	[illegible]	-4.7	16	4.7
850	30	1,432	-4.1	-8.0	17	4.6
800	30	1,908	-6.8	-10.9	19	3.9
750	30	2,410	[illegible]	-15.4	20	4.0
700	30	2,940	-12.7	-18.8	21	4.0
650	30	3,502	-16.1	-22.5	23	4.7
600	30	4,101	-19.4	-27.2	24	3.9
550	30	4,743	-23.5	-31.1	25	4.9
500	30	5,433	[illegible]	-36.6	26	5.9
450	30	6,181	-33.3	-39.5	28	6.5
400	30	6,999	-39.3	-42.6	28	7.2
350	30	7,904	-45.4		28	8.4
300	30	8,917	-50.7		27	8.6
250	30	10,096	-53.3		28	9.8
200	30	[illegible]	-52.5		[illegible]	7.8
175	30	[illegible]	-51.5		28	7.1
150	30	13,403	-51.0		28	5.9
125	30	14,586	-52.2		28	3.7
100	30	16,027	-53.0		27	2.5
80	29	17,468	-53.9		28	1.6
70	29	18,325	-54.2		32	.7
60	29	19,314	-54.3		03	.5
50	28	20,483	-54.1		07	.7
40	28	[illegible]	-53.9		07	2.2
30	25	23,769	-53.7		07	3.5
25	24	24,946	-53.4		08	4.6
20	21	26,387	-53.0		09	4.6
15	13	[illegible]	-52.2		09	4.2
10	6	30,928	-49.0			

ATHENS, GA
984 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	30	246	10.4	6.5	28	1.0
1000						
950	30	580	12.3	2.8	28	4.0
900	30	[illegible]	10.8	-.9	29	6.4
850	30	1,507	9.1	-4.1	29	8.7
800	30	2,008	7.4	-7.2	28	10.3
750	30	2,537	4.7	-9.3	28	12.2
700	30	3,097	2.3	[illegible]	28	14.4
650	30	3,692	-1.1	-17.5	28	16.6
600	30	4,326	-5.0	-20.6	28	18.7
550	30	5,004	-9.3	-25.0	28	21.9
500	30	5,734	-14.6	-28.2	28	24.7
450	29	[illegible]	-19.6	-33.6	28	26.7
400	29	7,393	-25.3	-36.8	28	30.5
350	29	8,352	-32.2	-44.6	28	34.5
300	29	[illegible]	-40.1	-48.2	28	[illegible]
250	29	[illegible]	-48.8		28	[illegible]
200	[illegible]	12,075	-57.9		29	49.3
175	29	12,911	-60.8		29	46.8
150	29	13,866	-62.3		28	41.5
125	29	14,989	-63.8		29	37.0
100	29	16,351	-65.5		29	[illegible]
80	29	17,703	-66.8		28	14.3
70	[illegible]	[illegible]	-65.6		28	10.0
60	[illegible]	[illegible]	-64.4		29	5.5
50	[illegible]	[illegible]	-61.9		31	4.4
40	[illegible]	21,970	-58.7		31	2.6
30	[illegible]	23,793	-54.9		32	2.1
25	27	[illegible]	-53.1		28	1.4
20	27	26,408	-50.4		29	1.9
15	[illegible]	[illegible]	-46.8		26	3.4
10	17	31,031	-40.5		27	[illegible]
7						

* BARROW, AK
[illegible] MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	25	8	-22.4	-24.7	[illegible]	.4
1000	25	142	-18.0	-19.4	[illegible]	.2
950	25	527	-16.3	-19.0	23	1.0
900	25	935	-15.5	-20.2	24	2.1
850	25	1,366	-16.1	-21.7	24	3.4
800	25	1,821	-17.4	-23.5	23	3.6
750	25	[illegible]	-19.4	-25.3	24	4.2
700	25	[illegible]	-21.8	-28.4	24	4.7
650	25	3,356	-24.4	-31.0	[illegible]	6.4
600	25	3,936	-27.6	-34.7	25	7.9
550	25	4,557	-31.3	-38.6	24	9.4
500	25	5,226	-35.7	-41.3	25	11.9
450	25	5,952	-40.5	-43.1	[illegible]	12.6
400	25	6,746	-45.2		25	12.9
350	25	[illegible]	-49.2		25	13.2
300	25	[illegible]	-51.0		24	12.5
250	[illegible]	9,827	-48.5		24	10.6
200	25	11,306	-45.7		24	8.3
175	24	12,196	-45.1		[illegible]	7.4
150	24	13,226	-45.0		24	7.0
125	24	14,443	-45.4		24	6.3
100	[illegible]	15,931	-46.1		23	4.8
80	22	17,408	-47.0		22	3.9
70	[illegible]	18,284	-47.9		22	3.0
60	19	19,302	-48.5		20	1.8
50	16	20,507	-48.9		16	2.2
40	16	21,972	-49.3		15	1.8
30	9	[illegible]	-50.1			
25	7	[illegible]	-50.3			

BARTER ISLAND, AK
1016 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	30	15	-21.7	-24.0	25	2.1
1000	29	139	-17.3	-18.6	26	1.1
950	30	520	-15.1	-17.4	28	1.3
900	30	[illegible]	-13.2	-16.5	26	1.2
850	30	1,366	-13.2	-17.3	25	2.3
800	30	1,827	-14.6	-18.3	25	3.4
750	30	2,314	-16.9	-20.1	25	4.4
700	30	2,829	-19.5	-24.7	24	5.5
650	30	3,377	[illegible]	-28.6	25	7.0
600	30	3,962	-25.8	-32.8	24	7.8
550	30	4,597	-29.9	-36.7	24	8.5
500	30	5,259	-34.5	-41.6	24	9.6
450	30	5,989	-39.2	-44.6	25	11.3
400	29	6,787	-44.5		25	12.6
350	29	7,674	-49.1		25	13.2
300	29	8,678	-51.1		25	13.5
250	29	9,867	-49.0		25	11.0
200	29	11,343	-46.1		25	9.1
175	29	12,231	-46.0		25	8.5
150	29	13,258	-45.7		25	7.1
125	29	14,472	-46.0		25	6.5
100	29	15,955	-47.0		25	4.6
80	29	17,430	-47.8		24	3.4
70	28	18,309	-48.3		24	2.6
60	28	19,323	[illegible]		23	1.4
50	28	20,519	-49.3		19	.6
40	28	[illegible]	-49.6		13	.8
30	26	23,865	-49.9		10	2.0
25	25	25,063	-50.0		09	2.5
20	25	26,521	-50.1		09	3.2
15	23	28,405	-49.2		09	4.4
10	21	31,074	-47.3		08	5.5
7	8	33,476	-43.0			

BETHEL, AK
1008 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	39	-7.7	-9.8	30	1.2
1000	22	131	-7.1	-10.9	25	1.2
950	28	499	-6.4	-9.9	24	.9
900	28	921	-7.7	-11.3	24	1.1
850	28	1,364	-9.5	-13.7	25	1.6
800	28	1,831	-11.4	-17.1	26	1.7
750	27	2,321	-13.7	-21.0	26	2.1
700	27	2,843	-16.2	-24.0	25	2.5
650	27	3,397	-19.4	-27.5	25	3.0
600	27	3,988	-23.1	-30.7	24	3.8
550	27	4,621	-26.7	-35.4	24	5.2
500	27	5,302	-31.2	-39.1	24	6.2
450	27	6,041	-36.3	-43.4	24	7.7
400	27	6,849	-41.9	-45.9	24	8.8
350	27	7,745	-47.4		24	10.4
300	27	8,751	-51.8		25	11.4
250	27	9,930	-51.8		25	10.9
200	27	11,387	-49.0		25	9.0
175	27	12,265	-48.3		25	7.9
150	27	13,281	-48.4		24	7.7
125	27	14,481	-48.3		23	6.4
100	27	15,951	-48.5		23	5.0
80	27	17,415	-49.7		22	3.9
70	27	18,288	-50.4		22	3.2
60	27	19,293	-50.9		21	2.6
50	27	20,478	-51.6		20	1.9
40	27	21,925	-51.9		18	1.4
30	27	23,787	-52.5		13	2.1
25	27	24,965	-52.5		11	2.5
20	25	26,407	-52.3		12	2.7
15	18	28,281	-51.2		10	3.9
10	9	30,941	-48.6			

* BISMARCK, ND
954 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	30	503	-.4	-2.7	08	2.3
950	21	572	-1.6	-3.7	09	1.9
900	30	970	-.5	-2.4	[illegible]	3.6
850	30	1,426	-2.0	-4.1	16	3.0
800	30	1,908	-2.6	-8.1	21	2.4
750	30	2,419	-4.3	-11.3	24	2.5
700	30	2,960	-7.5	-14.8	25	2.6
650	30	3,534	-10.7	-17.6	25	3.3
600	30	4,145	-14.5	-22.8	25	4.4
550	30	4,799	-19.1	-27.4	25	5.7
500	30	5,501	-24.1	-33.4	24	7.6
450	30	6,261	-29.7	-36.9	24	8.1
400	30	7,090	-36.1	-42.5	24	9.1
350	30	8,007	[illegible]	-44.6	24	10.1
300	30	9,028	-49.7		24	10.5
250	30	10,207	-54.5		24	13.2
200	30	11,632	-54.7		25	15.0
175	30	12,488	-53.6		25	14.3
150	30	13,481	-53.2		26	12.9
125	30	14,654	-53.8		26	11.2
100	29	[illegible]	-54.9		27	8.6
80	29	17,509	-55.8		27	7.2
70	29	18,360	-55.0		26	5.3
60	29	19,342	-55.5		27	3.4
50	29	20,503	-55.6		27	2.5
40	28	21,928	-55.3		01	.8
30	28	23,769	-54.3		07	1.7
25	28	24,939	-54.0		08	2.6
20	26	26,377	-53.0		08	3.5
15	24	28,236	-50.9		09	3.4
10	13	30,919	-47.0		09	2.3

BOISE, ID
[illegible] MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	30	871	3.0	-1.2	21	.7
1000						
950						
900	30	980	3.3	-3.0	26	.6
850	30	[illegible]	1.5	[illegible]	[illegible]	[illegible]
800	30	1,927	-2.0	-8.9	[illegible]	3.2
750	30	2,437	-5.7	[illegible]	[illegible]	4.0
700	30	2,974	-9.5	-16.2	31	3.7
650	30	3,542	-13.3	-20.2	29	[illegible]
600	30	4,147	-17.2	[illegible]	[illegible]	3.4
550	30	4,794	-21.5	[illegible]	[illegible]	4.2
500	30	5,490	-26.5	-34.5	26	4.9
450	29	6,246	-31.6	-39.6	26	[illegible]
400	29	7,069	-37.4	-44.3	26	6.9
350	[illegible]	7,981	-44.2		25	7.0
300	[illegible]	8,996	-50.9		25	7.5
250	29	10,171	-54.8		25	9.3
200	[illegible]	[illegible]	-53.6		25	[illegible]
175	[illegible]	[illegible]	-52.7		26	9.7
150	29	13,454	-53.0		[illegible]	9.5
125	[illegible]	[illegible]	-53.6		[illegible]	[illegible]
100	[illegible]	[illegible]	-54.6		[illegible]	[illegible]
80	[illegible]	[illegible]	-56.3		25	4.7
70	29	18,332	-56.6		24	[illegible]
60	[illegible]	[illegible]	-56.5		24	3.1
50	[illegible]	[illegible]	-56.6		[illegible]	1.5
40	[illegible]	21,885	-56.2		[illegible]	1.3
30	[illegible]	23,721	-55.2		09	1.9
25	[illegible]	24,885	-54.6		08	2.4
20	[illegible]	26,318	-53.7		05	3.8
15	15	[illegible]	-50.5		07	[illegible]
10	[illegible]	30,853	-45.5			

BOOTHVILLE, LA
[illegible] MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	[illegible]	[illegible]	17.6	16.0	08	1.0
1000	[illegible]	142	18.5	14.7	10	2.5
950	30	582	16.6	9.4	15	4.2
900	[illegible]	1,043	16.7	3.6	19	4.4
850	30	1,529	14.9	.9	[illegible]	5.1
800	[illegible]	2,040	13.2	-2.8	24	6.3
750	[illegible]	2,580	10.3	-5.3	25	8.0
700	[illegible]	3,151	[illegible]	-7.6	26	[illegible]
650	30	3,757	3.9	-12.4	26	11.8
600	[illegible]	4,403	-.4	-15.2	26	14.2
550	30	5,092	-5.4	[illegible]	27	15.9
500	30	5,833	-10.7	-22.7	[illegible]	18.5
450	30	6,636	-15.6	-28.3	[illegible]	21.9
400	30	7,514	-21.7	-34.0	[illegible]	[illegible]
350	30	8,486	-28.9	-39.9	[illegible]	[illegible]
300	[illegible]	9,569	-36.9	-47.3	[illegible]	32.7
250	30	10,805	-46.6		27	36.7
200	[illegible]	12,249	-57.4		[illegible]	39.8
175	[illegible]	13,083	-62.1		28	39.3
150	30	14,026	-65.7		27	35.6
125	[illegible]	15,127	-68.1		[illegible]	30.4
100	30	16,455	-71.6		27	22.7
80	30	17,766	[illegible]		27	12.8
70	30	18,554	-70.6		[illegible]	8.4
60	[illegible]	19,476	[illegible]		28	4.5
50	[illegible]	20,591	-62.2		[illegible]	1.6
40	[illegible]	[illegible]	-58.3		30	2.7
30	[illegible]	23,811	-54.1		33	2.1
25	27	24,991	-51.8		31	.6
20	[illegible]	26,443	-48.9		28	1.2
15	22	[illegible]	-44.5		25	[illegible]
10	8	31,149	-37.9			

* BROWNSVILLE, TX
[illegible] MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	30	7	21.4	18.5	14	3.1
1000	30	102	21.6	19.4	14	4.5
950	30	545	19.3	15.9	15	8.5
900	30	[illegible]	18.7	8.4	16	9.0
850	30	1,501	17.6	[illegible]	18	[illegible]
800	30	[illegible]	16.3	-.2	[illegible]	9.5
750	30	2,565	14.5	-3.1	21	7.3
700	30	3,146	12.0	-8.6	23	6.4
650	30	3,761	7.4	-11.3	24	7.0
600	30	4,414	2.0	-12.2	25	9.0
550	30	5,108	-3.8	-14.9	25	[illegible]
500	30	5,853	-8.8	-22.2	25	13.5
450	30	6,662	-14.0	-28.6	25	16.7
400	30	7,545	[illegible]	-34.4	25	20.3
350	30	[illegible]	-27.3	-39.7	25	24.2
300	30	9,611	-35.9	-48.3	26	27.3
250	29	10,855	-45.9		26	29.5
200	29	12,303	-57.2		26	29.9
175	29	13,136	-62.		26	31.8
150	29	14,075	-67.2		26	30.7
125	[illegible]	15,165	-71.0		26	26.3
100	[illegible]	16,471	-75.2		26	18.1
80	27	17,753	-76.5		25	11.9
70	27	18,530	-72.7		25	5.2
60	27	[illegible]	-66.8		25	1.7
50	27	20,565	-62.4		[illegible]	.4
40	27	21,956	-58.5		31	.6
30	26	23,783	-54.3		36	2.5
25	26	24,958	-52.1		06	2.3
20	25	26,420	-48.1		07	1.3
15	19	[illegible]	-42.8		27	2.5

BUFFALO, NY
990 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	30	218	.8	-2.4	27	1.2
950	30	546	.7	-5.9	30	3.4
900	30	979	-1.3	-7.8	29	5.0
850	30	1,434	-2.8	-9.7	30	7.4
800	30	1,913	-4.2	-12.9	31	8.7
750	30	2,420	-6.2	-15.7	31	10.5
700	30	2,958	-8.6	-18.1	31	11.7
650	30	3,530	-11.1	-22.1	31	12.6
600	30	4,141	-14.5	-25.9	30	14.1
550	30	4,795	-18.4	-29.4	30	16.0
500	30	5,500	-23.2	-35.2	30	18.0
450	30	6,264	-28.1	-38.6	30	19.7
400	30	7,099	-34.1	-44.7	30	22.3
350	30	8,025	-40.5	-47.8	29	25.7
300	30	[illegible]	-46.4		29	30.5
250	30	10,256	-50.7		29	35.8
200	29	11,695	[illegible]		29	31.9
175	29	12,556	-53.0		29	24.6
150	29	13,550	-53.3		29	22.6
125	29	14,723	-54.0		29	17.3
100	29	16,151	-55.2		29	12.6
80	29	17,571	-56.2		28	8.9
70	29	18,419	-56.7		28	5.6
60	29	19,396	-56.8		29	4.4
50	29	20,554	-56.1		31	1.8
40	29	21,974	-55.4		05	1.8
30	26	23,812	-54.7		09	4.8
25	26	24,964	-53.2		09	3.9
20	24	26,431	-51.3		08	3.8
15	[illegible]	28,301	-48.4		05	2.3

CAPE HATTERAS, NC
1017 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	30	4	11.9	7.9	35	1.1
1000	29	140	12.1	4.0	32	1.9
950	30	570	10.2	1.7	29	4.2
900	30	1,018	7.8	-2.4	28	7.0
850	30	1,480	5.4	-4.2	28	9.9
800	30	1,982	3.1	-7.2	28	12.3
750	30	2,503	.9	-10.3	28	15.1
700	30	3,056	-1.5	-12.7	28	17.9
650	30	3,644	-4.2	-16.7	28	[illegible]
600	30	4,271	-7.5	-20.3	28	[illegible]
550	30	4,944	-11.6	-23.7	[illegible]	25.0
500	30	5,669	-16.3	-28.6	29	28.3
450	29	6,453	[illegible]	-35.4	29	31.1
400	29	7,310	-27.4	-40.3	29	34.3
350	29	8,262	-33.8	-44.6	29	39.3
300	29	9,324	-41.6	-47.9	29	44.9
250	29	10,536	-49.9		[illegible]	47.7
200	26	11,982	-55.9		29	43.4
175	25	12,825	-57.9		29	41.2
150	23	13,799	-59.5		29	40.4
125	21	14,943	-60.7		29	32.0
100	20	[illegible]	-62.6		29	23.4
80	19	17,695	-62.7		29	16.6
70	19	18,519	-62.5		29	11.9
60	19	19,472	-62.0		29	6.6
50	19	20,606	-59.7		31	3.4
40	17	22,013	-56.8		32	2.4
30	17	[illegible]	-53.6		30	.3
25	17	25,027	-51.9		23	1.7
20	16	26,490	-49.7		29	3.7
15	11	28,384	-46.1		28	6.0

RAWINSONDE DATA

Average monthly values

[illegible]

CARIBOU, ME — [illegible] MB

Standard pressure surface (mb)	No. of observations	Geopotential height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	[illegible]	[illegible]	[illegible]	[illegible]	31	2.5
1000						
950	[illegible]	488	[illegible]	[illegible]	34	3.7
900	[illegible]	916	-4.2	[illegible]	35	4.3
850	[illegible]	[illegible]	-6.6	[illegible]	34	4.3
800	[illegible]	1,837	[illegible]	[illegible]	34	3.8
750	[illegible]	[illegible]	[illegible]	[illegible]	33	3.9
700	[illegible]	[illegible]	-12.2	[illegible]	32	[illegible]
650	[illegible]	3,431	-14.3	[illegible]	31	4.4
600	[illegible]	4,035	-17.4	[illegible]	31	4.7
550	[illegible]	4,682	[illegible]	[illegible]	[illegible]	5.4
500	[illegible]	5,378	-26.1	[illegible]	30	[illegible]
450	[illegible]	6,133	[illegible]	[illegible]	[illegible]	[illegible]
400	[illegible]	[illegible]	-36.0	[illegible]	[illegible]	[illegible]
350	[illegible]	7,875	-42.8	-45.7	30	9.7
300	[illegible]	8,998	-48.4		29	[illegible]
250	[illegible]	10,093	-50.5		28	11.2
200	[illegible]	11,547	-50.1		28	10.1
175	[illegible]	[illegible]	-49.2		28	[illegible]
150	[illegible]	13,431	-50.2		28	9.9
125	[illegible]	14,621	-50.7		27	6.3
100	[illegible]	16,071	-52.3		27	[illegible]
80	[illegible]	17,508	-53.8		27	4.5
70	[illegible]	18,366	-54.3		27	2.4
60	[illegible]	19,353	-54.6		25	[illegible]
50	[illegible]	20,520	-54.5		[illegible]	.2
40	[illegible]	21,949	-54.3		09	2.5
30	[illegible]	23,797	[illegible]		[illegible]	3.8
25	28	24,972	-53.3		09	4.7
20	[illegible]	26,408	-52.6		09	5.4
15	23	28,270	[illegible]		[illegible]	4.7
10	[illegible]	[illegible]	[illegible]			

CENTREVILLE, AL — [illegible] MB

Standard pressure surface (mb)	No. of observations	Geopotential height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1000	[illegible]	[illegible]	10.4	[illegible]	[illegible]	[illegible]
950	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.9
900	[illegible]	1,040	11.7	[illegible]	[illegible]	3.4
850	[illegible]	1,517	[illegible]	[illegible]	[illegible]	5.9
800	[illegible]	2,020	[illegible]	[illegible]	[illegible]	[illegible]
750	[illegible]	2,552	[illegible]	[illegible]	26	[illegible]
700	[illegible]	3,114	3.0	[illegible]	27	[illegible]
650	[illegible]	3,711	.0	[illegible]	[illegible]	[illegible]
600	[illegible]	4,347	-3.9	[illegible]	27	[illegible]
550	[illegible]	5,029	-8.1	[illegible]	27	[illegible]
500	[illegible]	5,762	-13.1	[illegible]	27	[illegible]
450	[illegible]	[illegible]	-18.4	[illegible]	[illegible]	[illegible]
400	[illegible]	[illegible]	-24.5	[illegible]	[illegible]	[illegible]
350	[illegible]	8,387	-31.4	[illegible]	27	34.6
300	29	9,456	-39.3	[illegible]	28	[illegible]
250	[illegible]	10,680	-48.5		28	46.6
200	[illegible]	12,114	-58.5		28	47.5
175	29	12,947	-61.7		28	49.4
150	29	13,897	-63.8		28	44.8
125	[illegible]	15,012	-64.9		[illegible]	36.2
100	[illegible]	16,363	-68.0		28	[illegible]
80	29	17,701	-68.5		29	15.1
70	[illegible]	18,504	-67.1		28	9.6
60	[illegible]	19,439	-65.0		29	[illegible]
50	[illegible]	20,558	-62.5		[illegible]	2.9
40	[illegible]	21,949	-58.6		34	[illegible]
30	[illegible]	[illegible]	-54.9		36	[illegible]
25	[illegible]	[illegible]	-53.0		33	[illegible]
20	27	[illegible]	-49.7		28	[illegible]
15	26	[illegible]	-46.1		28	[illegible]
10	20	31,016	-40.3		[illegible]	[illegible]

[illegible] — [illegible] MB

Standard pressure surface (mb)	No. of observations	Geopotential height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	[illegible]	[illegible]	[illegible]	10.0	28	[illegible]
1000	[illegible]	150	[illegible]	[illegible]	27	[illegible]
950	[illegible]	583	[illegible]	4.3	28	[illegible]
900	[illegible]	1,038	11.6	1.9	28	[illegible]
850	[illegible]	1,514	[illegible]	-1.6	28	[illegible]
800	[illegible]	2,016	[illegible]	-4.3	[illegible]	[illegible]
750	[illegible]	[illegible]	[illegible]	-7.3	28	11.1
700	[illegible]	3,106	[illegible]	-10.5	[illegible]	14.7
650	[illegible]	3,702	[illegible]	[illegible]	[illegible]	16.1
600	[illegible]	4,337	[illegible]	-19.9	[illegible]	[illegible]
550	29	5,017	-8.9	[illegible]	29	21.2
500	[illegible]	5,748	-13.8	[illegible]	28	[illegible]
450	[illegible]	6,540	-19.0	[illegible]	[illegible]	27.4
400	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
350	[illegible]	8,367	-31.9	[illegible]	28	32.6
300	[illegible]	9,435	-39.9	[illegible]	29	38.2
250	[illegible]	10,698	-48.7		[illegible]	44.0
200	[illegible]	12,093	[illegible]		[illegible]	45.2
175	[illegible]	12,929	-60.5		[illegible]	43.0
150	[illegible]	[illegible]	-62.8		[illegible]	37.3
125	[illegible]	15,002	-64.6		[illegible]	32.5
100	[illegible]	16,357	[illegible]		28	[illegible]
80	[illegible]	17,699	-67.8		[illegible]	[illegible]
70	[illegible]	18,505	-66.5		[illegible]	[illegible]
60	[illegible]	[illegible]	-65.1		[illegible]	[illegible]
50	[illegible]	20,562	-62.1		[illegible]	3.8
40	[illegible]	21,951	-58.7		30	[illegible]
30	[illegible]	23,770	-54.9		[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]		27	.5
20	[illegible]	26,391	[illegible]		28	[illegible]
15	[illegible]	28,290	[illegible]		[illegible]	3.9
10	9	[illegible]	[illegible]			

[illegible] — [illegible] MB

Standard pressure surface (mb)	No. of observations	Geopotential height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1000	[illegible]	112	[illegible]	[illegible]	[illegible]	[illegible]
950	[illegible]	510	[illegible]	[illegible]	[illegible]	[illegible]
900	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
850	[illegible]	1,401	[illegible]	-10.9	[illegible]	[illegible]
800	[illegible]	[illegible]	[illegible]	-13.3	[illegible]	[illegible]
750	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9.9
700	[illegible]	[illegible]	-9.0	[illegible]	[illegible]	[illegible]
650	30	[illegible]	[illegible]	-23.1	[illegible]	12.1
600	[illegible]	4,103	-15.0	[illegible]	29	13.4
550	[illegible]	4,756	[illegible]	-29.1	29	15.1
500	[illegible]	[illegible]	[illegible]	-34.7	[illegible]	15.9
450	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17.4
400	30	7,054	[illegible]	[illegible]	29	19.6
350	30	7,978	[illegible]	[illegible]	29	[illegible]
300	30	9,012	[illegible]		29	[illegible]
250	[illegible]	[illegible]	-49.5		[illegible]	[illegible]
200	30	11,673	[illegible]		29	26.1
175	[illegible]	[illegible]	[illegible]		28	24.7
150	[illegible]	[illegible]	[illegible]		[illegible]	21.0
125	29	14,717	[illegible]		[illegible]	16.5
100	29	16,148	[illegible]		[illegible]	13.5
80	29	17,569	[illegible]		29	9.7
70	[illegible]	[illegible]	-57.1		[illegible]	[illegible]
60	[illegible]	[illegible]	-57.0		29	4.6
50	[illegible]	[illegible]	[illegible]		29	2.0
40	27	21,970	-55.4		[illegible]	.9
30	[illegible]	[illegible]	[illegible]		[illegible]	1.1
25	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
20	19	26,443	-51.7		[illegible]	[illegible]
15	[illegible]	28,338	[illegible]		36	.6
10	[illegible]	[illegible]	[illegible]			

[illegible] — [illegible] MB

Standard pressure surface (mb)	No. of observations	Geopotential height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	[illegible]	[illegible]	[illegible]	-5.9	[illegible]	[illegible]
850	[illegible]	1,481	[illegible]	-6.1	24	1.7
800	[illegible]	1,987	[illegible]	[illegible]	[illegible]	[illegible]
750	[illegible]	2,526	[illegible]	[illegible]	[illegible]	[illegible]
700	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
650	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
600	[illegible]	4,344	[illegible]	-20.0	24	[illegible]
550	[illegible]	[illegible]	[illegible]	-23.8	24	[illegible]
500	[illegible]	5,771	[illegible]	[illegible]	[illegible]	[illegible]
450	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
400	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
350	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
300	30	9,486	[illegible]	[illegible]	[illegible]	[illegible]
250	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
200	30	12,157	[illegible]		[illegible]	[illegible]
175	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
100	[illegible]	16,384	[illegible]		[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
70	[illegible]	[illegible]	-69.2		[illegible]	[illegible]
60	26	19,431	-65.3		[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
25	[illegible]	[illegible]	-53.0		[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]			

COLD BAY, AK — [illegible] MB

Standard pressure surface (mb)	No. of observations	Geopotential height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	[illegible]	30	-.8	[illegible]	25	[illegible]
1000	[illegible]	134	[illegible]	-3.4	26	2.0
950	[illegible]	518	[illegible]	[illegible]	[illegible]	3.9
900	[illegible]	944	[illegible]	[illegible]	[illegible]	[illegible]
850	[illegible]	1,391	[illegible]	[illegible]	[illegible]	5.9
800	[illegible]	[illegible]	-8.2	-16.9	[illegible]	6.2
750	[illegible]	2,363	-10.2	-18.6	27	7.2
700	[illegible]	2,892	[illegible]	-20.4	[illegible]	8.1
650	[illegible]	3,455	-15.6	-23.3	26	9.8
600	[illegible]	4,055	[illegible]	-27.6	25	11.2
550	[illegible]	4,698	[illegible]	-32.3	25	12.9
500	[illegible]	5,390	-27.4	-36.3	26	14.2
450	[illegible]	6,141	[illegible]	-40.5	[illegible]	15.7
400	[illegible]	6,962	[illegible]	-41.5	26	18.3
350	[illegible]	7,871	[illegible]	[illegible]	25	21.0
300	[illegible]	8,888	[illegible]		25	22.1
250	[illegible]	10,067	[illegible]		26	20.2
200	[illegible]	11,498	[illegible]		25	16.7
175	[illegible]	12,362	[illegible]		[illegible]	12.4
150	[illegible]	13,351	[illegible]		[illegible]	12.3
125	[illegible]	14,532	[illegible]		[illegible]	9.6
100	[illegible]	15,979	[illegible]		[illegible]	7.5
80	[illegible]	17,424	[illegible]		[illegible]	[illegible]
70	[illegible]	[illegible]	-52.8		[illegible]	3.9
60	[illegible]	19,270	-53.3		[illegible]	2.5
50	23	20,442	-53.8		[illegible]	1.9
40	22	21,882	-53.8		[illegible]	1.5
30	[illegible]	23,734	[illegible]		[illegible]	2.0
25	[illegible]	24,908	-53.3		[illegible]	2.5
20	[illegible]	26,348	-52.8		[illegible]	[illegible]
15	[illegible]	28,210	[illegible]		[illegible]	3.1
10						
7						

DAYTON, OH — 983 MB

Standard pressure surface (mb)	No. of observations	Geopotential height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	[illegible]	[illegible]	3.1	[illegible]	01	[illegible]
1000						
950	[illegible]	571	4.4	[illegible]	29	[illegible]
900	[illegible]	1,011	3.3	-6.7	29	4.5
850	[illegible]	1,473	1.7	-8.6	29	7.4
800	[illegible]	1,961	.3	-11.3	30	[illegible]
750	[illegible]	[illegible]	-1.7	-14.5	30	[illegible]
700	[illegible]	3,024	-4.2	-18.2	29	14.1
650	[illegible]	3,605	-7.5	-20.3	29	16.2
600	[illegible]	[illegible]	-11.2	-22.8	29	18.5
550	[illegible]	4,886	-15.1	-26.7	29	20.7
500	[illegible]	5,601	-19.7	-32.4	29	23.3
450	[illegible]	6,375	-24.8	-36.3	29	25.3
400	[illegible]	7,222	-30.9	-42.0	29	28.7
350	[illegible]	[illegible]	[illegible]	-46.8	28	[illegible]
300	[illegible]	9,207	-44.2	-49.5	[illegible]	40.2
250	[illegible]	10,410	-51.2		28	44.8
200	[illegible]	11,842	-56.3		28	43.5
175	[illegible]	12,689	[illegible]		29	[illegible]
150	[illegible]	13,668	-57.6		28	[illegible]
125	[illegible]	14,814	[illegible]		28	[illegible]
100	[illegible]	16,216	-59.3		28	[illegible]
80	[illegible]	17,610	[illegible]		28	[illegible]
70	[illegible]	18,445	-59.6		28	9.2
60	[illegible]	19,413	-59.6		29	5.2
50	[illegible]	20,555	[illegible]		[illegible]	[illegible]
40	[illegible]	21,960	-57.1		04	[illegible]
30	[illegible]	23,791	-55.0		08	3.3
25	[illegible]	[illegible]	-53.9		07	[illegible]
20	[illegible]	26,397	-51.8		07	[illegible]
15	[illegible]	28,275	-48.3		32	[illegible]
10	[illegible]	30,998	-42.7		[illegible]	8.3
7	5	33,447	-38.7			

DEL RIO, TX — 976 MB

Standard pressure surface (mb)	No. of observations	Geopotential height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	[illegible]	314	17.1	12.2	11	[illegible]
1000						
950	[illegible]	[illegible]	17.0	[illegible]	[illegible]	4.8
900	[illegible]	[illegible]	15.5	[illegible]	[illegible]	[illegible]
850	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
800	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
750	[illegible]	2,538	[illegible]	-6.5	24	8.5
700	[illegible]	3,110	[illegible]	[illegible]	[illegible]	11.2
650	[illegible]	3,717	4.0	-14.0	[illegible]	13.9
600	[illegible]	4,362	[illegible]	[illegible]	[illegible]	[illegible]
550	[illegible]	5,050	[illegible]	[illegible]	[illegible]	[illegible]
500	[illegible]	5,788	[illegible]	[illegible]	25	[illegible]
450	30	6,587	[illegible]	[illegible]	[illegible]	[illegible]
400	[illegible]	7,461	[illegible]	-36.3	25	[illegible]
350	[illegible]	[illegible]	[illegible]	[illegible]	25	[illegible]
300	[illegible]	9,509	[illegible]	-48.1	25	[illegible]
250	[illegible]	10,743	[illegible]		25	42.2
200	[illegible]	12,185	[illegible]		25	[illegible]
175	[illegible]	13,018	[illegible]		[illegible]	43.1
150	[illegible]	13,961	[illegible]		[illegible]	38.6
125	[illegible]	15,065	[illegible]		[illegible]	[illegible]
100	[illegible]	16,394	[illegible]		[illegible]	23.2
80	[illegible]	17,708	[illegible]		[illegible]	15.5
70	[illegible]	18,502	[illegible]		[illegible]	9.0
60	[illegible]	19,431	[illegible]		25	4.2
50	[illegible]	20,546	-61.6		[illegible]	[illegible]
40	24	21,945	-58.2		[illegible]	[illegible]
30	[illegible]	23,773	[illegible]		[illegible]	[illegible]
25	[illegible]	24,940	[illegible]		[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
15	[illegible]	28,285	[illegible]		[illegible]	[illegible]
10	[illegible]	31,027	[illegible]		27	[illegible]

DENVER, CO — [illegible] MB

Standard pressure surface (mb)	No. of observations	Geopotential height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	30	1,611	[illegible]	[illegible]	[illegible]	[illegible]
800	[illegible]	1,929	3.2	-8.4	24	1.6
750	[illegible]	[illegible]	.5	-12.3	26	4.2
700	[illegible]	3,000	[illegible]	[illegible]	25	[illegible]
650	[illegible]	3,582	-7.1	[illegible]	25	[illegible]
600	[illegible]	4,201	-11.5	[illegible]	25	[illegible]
550	[illegible]	4,863	-16.0	[illegible]	25	[illegible]
500	[illegible]	5,574	-21.2	[illegible]	24	[illegible]
450	30	6,343	-27.0	-38.4	24	[illegible]
400	[illegible]	7,180	[illegible]	[illegible]	24	[illegible]
350	[illegible]	[illegible]	[illegible]	-48.5	24	[illegible]
300	[illegible]	9,139	[illegible]		24	[illegible]
250	[illegible]	10,330	[illegible]		24	[illegible]
200	[illegible]	11,759	[illegible]		25	[illegible]
175	[illegible]	12,608	[illegible]		[illegible]	[illegible]
150	[illegible]	13,589	[illegible]		[illegible]	[illegible]
125	[illegible]	14,748	-56.2		[illegible]	[illegible]
100	[illegible]	16,162	-57.5		[illegible]	[illegible]
80	[illegible]	17,565	[illegible]		[illegible]	[illegible]
70	[illegible]	18,402	-59.7		25	[illegible]
60	[illegible]	19,366	[illegible]		26	[illegible]
50	[illegible]	20,509	[illegible]		26	[illegible]
40	[illegible]	21,920	[illegible]		[illegible]	[illegible]
30	[illegible]	23,753	[illegible]		[illegible]	[illegible]
25	[illegible]	24,921	-53.6		[illegible]	[illegible]
20	[illegible]	26,361	-51.8		[illegible]	[illegible]
15	[illegible]	28,241	-48.1		[illegible]	[illegible]

[illegible] — [illegible] MB

Standard pressure surface (mb)	No. of observations	Geopotential height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	[illegible]	791	6.4	2.2	20	[illegible]
900	[illegible]	978	[illegible]	[illegible]	[illegible]	[illegible]
850	[illegible]	[illegible]	[illegible]	-4.2	23	[illegible]
800	[illegible]	[illegible]	[illegible]	-8.1	[illegible]	[illegible]
750	[illegible]	[illegible]	[illegible]	-12.3	[illegible]	[illegible]
700	[illegible]	[illegible]	[illegible]	-16.3	[illegible]	[illegible]
650	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
600	[illegible]	[illegible]	[illegible]	-23.9	[illegible]	[illegible]
550	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
500	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
450	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
400	[illegible]	7,256	[illegible]	-43.7	[illegible]	[illegible]
350	30	[illegible]	[illegible]	[illegible]	25	[illegible]
300	[illegible]	[illegible]	[illegible]		25	[illegible]
250	[illegible]	[illegible]	-51.9		[illegible]	[illegible]
200	30	11,865	[illegible]		[illegible]	[illegible]
175	[illegible]	[illegible]	[illegible]		25	[illegible]
150	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]		26	[illegible]
80	29	17,613	[illegible]		26	[illegible]
70	29	18,439	[illegible]		26	[illegible]
60	29	19,395	[illegible]		26	[illegible]
50	[illegible]	[illegible]	[illegible]		26	[illegible]
40	[illegible]	[illegible]	-57.4		27	[illegible]
30	25	23,760	[illegible]		04	[illegible]
25	24	[illegible]	[illegible]		[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]		04	[illegible]
15	[illegible]	[illegible]	-48.0		29	[illegible]
10	13	30,942	-42.2			

[illegible] — [illegible] MB

Standard pressure surface (mb)	No. of observations	Geopotential height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1000						
950						
900						
850	[illegible]	1,473	[illegible]	-7.2	[illegible]	[illegible]
800	[illegible]	[illegible]	[illegible]	-9.6	[illegible]	6.1
750	[illegible]	2,508	[illegible]	-11.8	24	[illegible]
700	[illegible]	3,067	[illegible]	-15.7	24	[illegible]
650	[illegible]	3,659	[illegible]	-19.9	24	[illegible]
600	[illegible]	4,289	[illegible]	-24.1	24	[illegible]
550	[illegible]	4,965	[illegible]	-28.2	[illegible]	21.0
500	[illegible]	5,693	[illegible]	-31.9	24	24.9
450	[illegible]	6,481	[illegible]	-35.9	24	28.1
400	[illegible]	7,342	-26.6	[illegible]	24	31.6
350	[illegible]	[illegible]	-33.6	[illegible]	[illegible]	36.7
300	[illegible]	9,357	-41.2	[illegible]	[illegible]	[illegible]
250	[illegible]	10,574	-49.4		[illegible]	44.9
200	[illegible]	12,009	-57.0		[illegible]	[illegible]
175	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
150	[illegible]	13,810	-60.8		[illegible]	[illegible]
125	[illegible]	14,937	[illegible]		[illegible]	[illegible]
100	[illegible]	16,299	[illegible]		[illegible]	[illegible]
80	[illegible]	17,649	-67.8		[illegible]	18.1
70	[illegible]	18,455	-66.4		[illegible]	[illegible]
60	[illegible]	19,394	-64.1		[illegible]	[illegible]
50	[illegible]	20,516	[illegible]		[illegible]	[illegible]
40	27	21,909	-58.5		[illegible]	[illegible]
30	[illegible]	23,729	-55.8		[illegible]	[illegible]
25	[illegible]	24,892	-54.1		[illegible]	[illegible]
20	22	26,322	-51.1		[illegible]	[illegible]
15	[illegible]	28,208	-47.3		[illegible]	3.9
10	[illegible]	30,967	[illegible]			

[illegible] — [illegible] MB

Standard pressure surface (mb)	No. of observations	Geopotential height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
800	[illegible]	1,959	-2.0	-5.8		1.2
750	[illegible]	2,451	-3.6	-8.9		2.6
700	[illegible]	[illegible]	-7.6	-12.1	[illegible]	3.8
650	[illegible]	[illegible]	-11.2	-16.7	[illegible]	6.2
600	[illegible]	4,175	-15.2	-22.1	[illegible]	7.3
550	[illegible]	4,827	-19.6	-27.3	[illegible]	8.2
500	[illegible]	5,528	-24.5	-32.3	[illegible]	10.1
450	[illegible]	6,287	-29.9	[illegible]	[illegible]	11.9
400	[illegible]	7,115	-36.4	[illegible]	[illegible]	14.1
350	[illegible]	8,032	-42.6	[illegible]	[illegible]	16.1
300	[illegible]	9,056	-49.1		[illegible]	17.6
250	[illegible]	10,253	-53.7		[illegible]	20.2
200	[illegible]	11,680	-54.7		[illegible]	19.6
175	[illegible]	12,536	-54.0		[illegible]	18.2
150	[illegible]	13,526	-54.3		[illegible]	16.5
125	[illegible]	14,692	-55.3		[illegible]	15.1
100	[illegible]	16,112	-56.7		[illegible]	10.9
80	[illegible]	17,523	-58.1		[illegible]	8.1
70	[illegible]	18,370	-58.4		[illegible]	6.6
60	[illegible]	19,340	-58.9		[illegible]	[illegible]
50	25	20,485	-58.4		[illegible]	2.3
40	21	21,900	[illegible]		[illegible]	1.1
30	20	23,722	-55.7		[illegible]	[illegible]
25	[illegible]	[illegible]	-54.3		[illegible]	1.3
20	17	26,329	-52.3		[illegible]	[illegible]
15	12	28,204	-48.6		[illegible]	[illegible]
10	7	30,917	-44.4			

[illegible] — [illegible] MB

Standard pressure surface (mb)	No. of observations	Geopotential height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	27	[illegible]	[illegible]	[illegible]	35	[illegible]
1000	27	112	[illegible]	[illegible]	[illegible]	[illegible]
950	27	550	[illegible]	-2.6	33	[illegible]
900	27	1,008	14.7	[illegible]	[illegible]	[illegible]
850	27	1,489	12.0	[illegible]	[illegible]	[illegible]
800	27	[illegible]	10.4	[illegible]	[illegible]	[illegible]
750	27	2,529	8.2	-13.5	24	[illegible]
700	27	3,095	5.1	-16.0	24	[illegible]
650	27	3,696	[illegible]	-18.9	25	14.3
600	27	4,337	-2.0	-21.8	25	16.6
550	27	5,023	-6.7	[illegible]	25	19.3
500	27	5,759	-12.1	[illegible]	[illegible]	21.4
450	27	6,557	-17.6	-33.4	25	24.7
400	27	7,427	[illegible]	-37.7	25	28.7
350	27	8,391	-31.0	[illegible]	[illegible]	33.2
300	27	9,463	[illegible]	[illegible]	[illegible]	38.8
250	[illegible]	10,691	-47.6		[illegible]	[illegible]
200	[illegible]	12,133	[illegible]		25	[illegible]
175	[illegible]	12,971	[illegible]		[illegible]	[illegible]
150	[illegible]	13,927	[illegible]		[illegible]	[illegible]
125	[illegible]	15,048	[illegible]		[illegible]	[illegible]
100	[illegible]	16,413	[illegible]		[illegible]	[illegible]
80	[illegible]	17,752	[illegible]		[illegible]	[illegible]
70	[illegible]	18,551	[illegible]		[illegible]	[illegible]
60	[illegible]	19,487	[illegible]		[illegible]	[illegible]
50	[illegible]	20,608	[illegible]		[illegible]	[illegible]
40	[illegible]	22,003	[illegible]		[illegible]	[illegible]
30	[illegible]	23,835	[illegible]		[illegible]	[illegible]
25	[illegible]	25,002	[illegible]		[illegible]	[illegible]
20	[illegible]	26,457	-49.5		[illegible]	[illegible]
15	[illegible]	28,373	-45.8			

FAIRBANKS, [illegible] — [illegible] MB

Standard pressure surface (mb)	No. of observations	Geopotential height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	[illegible]	[illegible]	[illegible]	-9.5	[illegible]	[illegible]
1000	[illegible]	[illegible]	-7.8	[illegible]		
950	[illegible]	509	-4.0	-10.9	28	[illegible]
900	[illegible]	934	-6.3	[illegible]	[illegible]	[illegible]
850	[illegible]	[illegible]	-8.4	-13.9	24	[illegible]
800	[illegible]	[illegible]	-10.8	-15.3	[illegible]	[illegible]
750	[illegible]	[illegible]	[illegible]	-18.0	[illegible]	[illegible]
700	[illegible]	[illegible]	[illegible]	-22.2	[illegible]	[illegible]
650	30	3,419	[illegible]	-25.6	[illegible]	5.9
600	30	4,011	-22.8	-29.4	[illegible]	6.4
550	30	4,643	-27.1	-33.7	23	7.2
500	30	5,323	[illegible]	-39.5	[illegible]	[illegible]
450	30	6,060	[illegible]	-42.1	[illegible]	[illegible]
400	30	6,866	-42.6	-46.8	[illegible]	[illegible]
350	30	7,759	-48.2		[illegible]	[illegible]
300	[illegible]	[illegible]	-53.0		[illegible]	[illegible]
250	30	9,937	-51.8		[illegible]	[illegible]
200	[illegible]	[illegible]	-48.4		[illegible]	[illegible]
175	30	12,275	-47.9		[illegible]	[illegible]
150	30	13,294	-47.5		[illegible]	[illegible]
125	30	14,498	[illegible]		[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
80	30	17,432	-49.6		[illegible]	2.7
70	30	18,306	-50.2		[illegible]	2.4
60	30	19,312	-50.8		[illegible]	[illegible]
50	30	20,498	-51.3		[illegible]	[illegible]
40	[illegible]	[illegible]	-51.5		[illegible]	[illegible]
30	[illegible]	23,828	-51.5		[illegible]	[illegible]
25	[illegible]	25,017	-51.6		[illegible]	[illegible]
20	[illegible]	26,478	-51.6		[illegible]	[illegible]
15	[illegible]	28,352	-50.2		[illegible]	[illegible]

FLINT, MI — [illegible] MB

Standard pressure surface (mb)	No. of observations	Geopotential height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
1000						
950	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
900	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
850	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
800	[illegible]	[illegible]	-3.1	-12.1	32	[illegible]
750	30	[illegible]	[illegible]	-16.7	31	[illegible]
700	30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
650	[illegible]	[illegible]	[illegible]	-21.9	30	[illegible]
600	30	4,168	-13.4	-25.4	30	[illegible]
550	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
500	30	5,532	[illegible]	-34.2	30	[illegible]
450	30	6,297	-27.9	[illegible]	30	[illegible]
400	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
350	30	8,058	[illegible]	[illegible]	[illegible]	[illegible]
300	30	9,094	[illegible]		[illegible]	[illegible]
250	30	10,293	[illegible]		[illegible]	[illegible]
200	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
175	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
150	30	13,576	[illegible]		[illegible]	[illegible]
125	29	14,740	[illegible]		[illegible]	[illegible]
100	29	[illegible]	[illegible]		[illegible]	[illegible]
80	29	17,577	[illegible]		[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
25	[illegible]	24,975	[illegible]		[illegible]	[illegible]
20	[illegible]	26,410	[illegible]		[illegible]	[illegible]
15	18	28,300	[illegible]		[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]			

RAWINSONDE DATA

Average monthly values

APRIL 1975

Standard pressure surface (mb)	GLASGOW, MT 93[illegible] MB						GRAND JUNCTION, CO 847 MB						* GREAT FALLS, MT 886 MB						GREEN BAY, WI 993 MB						GREENSBORO, NC 985 MB					
	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	3[illegible]	[illegible]	-.8	-[illegible].7	05	1.9	[illegible]	1,4[illegible]2	3.4	-4.8	12	.9	30	1,[illegible]18	-3.7	-6.[illegible]	26	2.4	30	210	.1	-4.0	01	1.8	30	275	8.7	5.0	31	1.3
1000																			9	233	-1.4	-5.5								
950																			30	563	.1	-7.2	03	2.6	30	574	9.2	-.3	30	3.7
900	3[illegible]	474	-.5	-3.1	02	1.4													30	995	-1.0	-11.4	02	2.6	30	1,021	7.7	-2.2	30	6.9
850	3[illegible]	[illegible]	-[illegible].7	-6.7	36	[illegible].1	8	1,501	[illegible].8	-4.[illegible]			30	1,442	-2.6	-8.8	27	4.7	30	1,450	-2.3	-14.6	34	3.2	30	1,490	5.5	-4.5	30	9.2
800	3[illegible]	[illegible]	-3.4	-8.6	32	1.2	3[illegible]	1,939	2.9	-8.[illegible]	2[illegible]	2.5	30	1,921	-4.6	-10.5	29	4.1	30	1,931	-3.3	-16.3	32	4.1	30	1,985	3.8	-7.2	30	10.0
750	3[illegible]	2,421	-5.4	-11.9	29	1.7	3[illegible]	2,457	-.9	-10.7	22	4.8	30	2,478	-6.5	-11.8	30	4.3	30	2,439	-5.6	-17.9	30	5.7	30	2,507	1.5	-10.1	29	12.1
700	3[illegible]	2,959	-8.3	-15.0	29	2.3	3[illegible]	3,004	-4.9	-12.8	23	6.8	30	2,964	-9.5	-14.6	30	4.6	30	2,978	-7.8	-20.7	29	7.0	30	3,060	-1.0	-13.9	29	15.7
650	30	3,5[illegible]	-11.3	-19.1	29	2.8	3[illegible]	3,583	-9.1	-16.8	23	6.9	30	3,534	-12.5	-19.7	2[illegible]	3.8	30	3,551	-10.6	-21.2	29	8.5	30	3,649	-3.9	-15.9	29	17.9
600	3[illegible]	[illegible]	-15.1	-23.5	2[illegible]	[illegible].3	3[illegible]	4,196	-13.8	-2[illegible]	24	10.6	30	4,142	-15.8	-24.9	3[illegible]	3.7	30	4,163	-14.2	-24.2	28	10.1	30	4,276	-7.6	-21.0	29	20.7
550	3[illegible]	4,7[illegible]	-19.5	-[illegible].7	27	3.[illegible]	3[illegible]	4,852	-18.5	-27.9	23	[illegible].3	30	4,792	-20.[illegible]	-28.9	28	3.1	30	4,818	-18.3	-28.0	28	11.9	30	4,949	-11.5	-26.2	29	24.8
500	3[illegible]	5,495	-24.4	-33.2	27	4.1	3[illegible]	5,556	-23.2	-33.7	24	13.9	30	5,491	-25.3	-33.1	27	3.9	30	5,523	-23.1	-33.0	29	14.0	30	5,672	-16.5	-31.2	29	26.4
450	3[illegible]	6,254	-30.[illegible]	-37.8	27	4.7	30	6,3[illegible]9	-28.5	-38.9	24	16.5	30	6,248	-30.9	-37.3	25	4.0	30	6,287	-28.4	-37.9	29	16.6	30	6,456	-21.8	-36.0	28	28.6
400	3[illegible]	7,[illegible]82	-36.5	-43.8	27	4.4	[illegible]9	7,149	-34.9	-43.9	24	18.1	30	7,073	-37.[illegible]	-43.4	23	4.8	30	7,121	-34.5	-42.6	28	18.4	30	7,313	-27.6	-40.6	28	32.8
350	3[illegible]	7,997	-43.3		26	[illegible]	[illegible]9	8,070	-41.7	-47.5	24	19.3	3[illegible]	7,995	-44.[illegible]		22	5.6	30	8,044	-41.1	-46.0	28	21.[illegible]	29	8,264	-34.0	-45.6	29	37.9
300	3[illegible]	9,015	-50.6		27	4.[illegible]	[illegible]9	9,097	-48.1		24	22.4	30	9,001	-51.0		22	6.4	29	9,078	-47.5		28	24.7	29	9,324	-41.8	-48.2	29	40.8
250	3[illegible]	10,188	-55.8		24	7.0	[illegible]9	10,286	-52.5		25	27.6	30	10,172	-56.5		22	6.3	29	10,267	-52.9		28	28.9	29	10,536	-50.1		28	44.8
200	3[illegible]	11,609	-54.6		25	7.8	[illegible]8	11,725	-54.4		25	26.7	30	11,590	-54.7		24	7.5	29	11,697	-55.4		28	29.2	28	11,965	-56.2		29	44.6
175	[illegible]	[illegible],466	-52.5		25	7.8	28	12,581	-54.2		25	24.4	30	12,449	-53.[illegible]		24	7.4	29	12,550	-54.6		28	26.3	28	12,811	-57.6		29	40.7
150	[illegible]	[illegible]3,4[illegible]5	-52.1		25	7.7	27	13,570	-54.6		25	22.4	30	13,444	-52.7		24	5.5	29	13,537	-54.3		28	21.4	27	13,784	-59.4		29	36.7
125	[illegible]	[illegible]4,645	-52.2		26	7.2	27	[illegible]4,733	-55.7		24	20.0	29	14,626	-53.1		24	5.4	29	14,707	-54.3		28	17.3	27	14,923	-60.6		28	30.4
100	3[illegible]	[illegible]5,[illegible]84	-53.6		25	5.2	27	16,149	-57.6		24	15.5	29	16,[illegible]64	-53.3		24	5.1	29	16,132	-56.0		28	14.0	27	16,305	-62.7		29	18.9
80	28	17,514	-55.1		26	4.3	27	17,552	-59.7		24	12.0	26	17,487	-55.2		25	4.1	29	17,550	-56.7		28	10.2	26	17,672	-63.1		29	12.2
70	28	18,367	-55.1		27	3.3	27	18,387	-59.3		25	8.3	25	18,341	-55.3		25	3.3	28	18,400	-56.4		29	7.0	26	18,494	-62.9		29	8.6
60	27	19,354	-54.8		27	2.1	26	19,348	-59.5		24	[illegible].3	25	19,325	-55.6		24	2.7	28	19,377	-56.6		29	4.8	26	19,447	-61.5		30	5.9
50	26	20,520	-55.[illegible]		04	.2	[illegible]2	20,469	-59.[illegible]		23	2.3	25	20,488	-55.2		25	.8	26	20,537	-56.1		32	2.1	26	20,582	-59.8		32	3.7
40	26	21,948	-54.[illegible]		08	1.8	[illegible]	21,897	-58.1		31	.5	25	21,914	-54.9		06	.7	25	21,960	-55.2		04	1.3	25	21,987	-57.6		34	2.3
30	2[illegible]	[illegible]	-53.9		07	3.[illegible]	[illegible]	23,720	-55.9		08	1.9	22	23,758	-54.0		08	1.5	24	23,798	-54.5		08	3.5	23	23,812	-54.8		07	1.7
25	2[illegible]	[illegible]	-53.5		07	3.8	[illegible]	24,888	-54.8		05	2.5	21	24,924	-54.0		06	2.2	24	24,969	-53.4		08	4.5	22	24,988	-52.9		33	1.0
20	[illegible]3	[illegible]	-52.4		08	3.5	18	26,321	-52.6		04	2.0	18	26,362	-53.[illegible]		08	3.6	24	26,410	-52.[illegible]		08	4.8	17	26,444	-49.8		33	1.6
15	2[illegible]	[illegible]8,277	-50.[illegible]		0[illegible]	3.5	13	28,213	-49.6		02	1.6	15	28,238	-51.0		08	2.4	21	28,286	-49.5		08	3.4	14	28,352	-46.8		27	4.2
10	[illegible]	[illegible],959	-45.[illegible]				7	30,829	-45.5				6	30,903	-45.5				14	30,984	-44.3		33	1.5	8	31,044	-41.5			

Standard pressure surface (mb)	GUADALUPE IS., MEXICO 1[illegible] MB						* GUAM, MARIANA IS. 999 MB						HILO, HI 1019 MB						HUNTINGTON, WV 988 MB						* INTERNATIONAL FALLS, MN 976 MB					
SFC	3[illegible]	[illegible]3	[illegible]3.[illegible]	7.5	32	5.9	[illegible]	111	25.[illegible]	22.5	08	4.2	30	10	19.6	17.2	25	1.6	30	246	6.1	.1	29	.9	30	359	-3.4	-8.7	09	2.1
1000	3[illegible]	[illegible]	12.[illegible]	6.7	32	7.9	8	119	25.3	22.8			30	169	19.4	15.9	21	.8												
950	3[illegible]	577	8.8	-4.8	31	7.9	3[illegible]	555	22.3	19.8	08	10.1	30	609	16.3	14.[illegible]	10	3.3	30	570	6.9	-2.3	26	2.6	29	576	-1.0	-8.3	12	3.6
900	3[illegible]	1,023	7.3	-[illegible]	31	7.2	3[illegible]	1,025	20.[illegible]	14.8	08	10.1	30	1,068	13.3	1[illegible].6	10	4.5	30	1,013	4.9	-3.6	27	5.3	30	999	-2.1	-10.5	13	4.[illegible]
850	3[illegible]	1,493	7.[illegible]	-9.0	3[illegible]	6.8	3[illegible]	1,516	17.4	[illegible].8	08	9.1	30	1,548	10.5	8.7	10	3.9	30	1,477	3.1	-5.1	29	7.6	30	1,452	-3.5	-11.5	13	2.8
800	3[illegible]	1,990	6.[illegible]	-[illegible].4	29	7.1	3[illegible]	2,033	14.9	[illegible].9	08	8.0	30	2,051	7.7	3.5	10	3.4	30	1,967	.7	-8.6	29	10.2	30	1,930	-5.4	-12.6	12	1.2
750	3[illegible]	2,517	4.5	-16.9	28	8.9	3[illegible]	2,577	12.7	[illegible]	08	6.9	30	2,583	7.2	-8.0	10	4.0	30	2,484	-1.2	-12.4	29	13.2	30	2,435	-7.5	-13.9	01	.5
700	3[illegible]	3,076	2.5	-18.8	27	10.7	30	3,153	9.9	-6.0	0[illegible]	5.8	3[illegible]	3,150	6.3	-13.4	09	2.1	30	3,032	-3.5	-16.0	29	15.4	30	2,969	-10.0	-17.5	33	1.5
650	3[illegible]	3,672	-.3	-21.1	27	13.1	3[illegible]	3,766	7.4	-13.1	0[illegible]	5.3	30	3,754	3.4	-15.8	30	.7	30	3,615	-6.4	-19.0	29	17.[illegible]	30	3,538	-12.8	-22.4	30	2.6
600	3[illegible]	4,308	-3.5	-[illegible].4	26	15.[illegible]	3[illegible]	4,421	3.8	-16.7	06	4.6	30	4,398	-.9	-18.5	27	3.1	30	4,237	-9.8	-23.6	29	19.5	30	4,145	-16.2	-25.3	30	3.7
550	3[illegible]	4,991	-7.5	-[illegible]	26	17.6	3[illegible]	5,121	-.4	-20.1	07	3.5	30	5,[illegible]86	-6.[illegible]	-2[illegible]	27	4.6	30	4,903	-13.8	-27.4	29	22.1	30	4,795	-20.2	-29.3	30	5.7
500	3[illegible]	5,725	-1[illegible]	-21.8	26	18.7	3[illegible]	5,877	-5.0	-2[illegible].7	07	2.5	30	5,825	-11.[illegible]	-26.3	26	5.7	30	5,621	-18.3	-30.3	29	24.6	30	5,494	-24.9	-35.9	29	7.3
450	3[illegible]	6,518	-1[illegible]	-[illegible]6.4	26	21.2	3[illegible]	6,698	-9.7	-25.7	06	1.9	30	6,626	-16.2	-31.9	26	8.0	30	6,400	-23.4	-35.8	29	28.6	30	6,252	-30.3	-39.7	29	8.7
400	3[illegible]	7,383	-25.[illegible]	-41.6	26	24.0	[illegible]	7,597	-15.7	-3[illegible]	34	.8	30	7,503	-22.3	-36.9	26	11.0	30	7,252	-29.0	-40.0	29	31.6	30	7,079	-36.6	-44.0	26	11.2
350	3[illegible]	8,3[illegible]	-32.8	-47.5	25	24.4	3[illegible]	8,593	-22.9	-36.8	2[illegible]	2.6	3[illegible]	8,473	-29.5	-4[illegible].0	26	14.5	29	8,199	-35.7	-44.7	29	35.7	30	7,994	-43.5		28	12.7
300	3[illegible]	9,403	-41.[illegible]	-[illegible].3	25	30.0	[illegible]	9,702	-31.1	-44.4	20	6.5	3[illegible]	9,552	-37.6	-46.5	26	21.2	29	9,252	-42.9		28	41.1	30	9,012	-50.1		28	14.2
250	3[illegible]	10,620	-49.6		25	34.2	3[illegible]	10,967	-41.4		25	9.7	29	10,789	-46.5		25	28.5	29	10,460	-50.7		28	45.1	30	10,189	-55.2		27	15.0
200	30	12,056	-56.9		25	36.3	30	12,442	-53.6		26	[illegible].8	29	12,235	-57.[illegible]		26	34.3	29	11,893	-56.1		28	44.7	30	11,613	-54.9		27	15.7
175	3[illegible]	12,897	-5[illegible]		25	35.7	30	13,288	-60.4		25	11.8	29	13,071	-61.6		27	35.2	28	12,744	-57.7		29	39.4	29	12,466	-53.8		27	14.1
150	3[illegible]	13,860	-[illegible]		25	32.0	3[illegible]	14,231	-67.9		26	[illegible].2	29	14,016	-66.2		27	34.7	28	13,715	-58.2		29	32.3	29	13,457	-53.5		28	12.8
125	3[illegible]	[illegible]4,989	-63.[illegible]		25	26.3	29	15,306	-75.3		26	8.2	29	15,111	-70.0		27	23.2	27	14,861	-58.8		29	28.1	29	14,632	-53.1		28	10.4
100	29	16,349	-66.[illegible]		25	19.7	[illegible]8	16,577	-80.9		29	2.2	28	16,429	-72.7		26	15.6	27	16,257	-60.0		29	21.3	28	16,068	-53.7		28	8.5
80	28	[illegible]	-66.[illegible]		25	13.5	25	17,830	-81.[illegible]		06	5.4	27	17,737	-72.[illegible]		26	8.4	26	17,646	-60.9		29	12.9	28	17,499	-54.6		28	6.8
70	28	[illegible]	-64.4		25	8.9	25	[illegible]8,589	-76.9		08	6.3	26	18,527	-70.2		26	4.1	26	18,477	-60.7		28	9.7	28	18,354	-54.8		28	5.6
60	27	19,450	-63.5		24	5.3	25	[illegible]9,492	-[illegible]		09	7.2	24	19,447	-67.6		31	.5	24	19,435	-60.2		29	7.0	28	19,339	-54.9		29	4.1
50	27	20,575	-6[illegible]		25	2.8	25	20,592	-64.8		09	9.8	24	20,556	-63.0		07	2.4	23	20,573	-58.8		31	3.6	26	20,503	-54.5		31	2.2
40	27	21,969	-58.[illegible]		28	1.9	24	21,968	-60.7		05	12.7	24	21,941	-60.6		09	2.5	23	21,980	-57.1		35	2.1	24	21,940	-53.9		02	1.5
30	25	23,799	-55.[illegible]		2[illegible]	[illegible]	24	23,781	-55.[illegible]		09	11.4	24	23,746	-57.0		08	4.3	23	23,813	-54.3		07	1.6	19	23,789	-53.7		08	3.4
25	25	24,966	-54.[illegible]		27	[illegible].8	23	24,958	-51.4		08	7.1	22	24,91[illegible]	-53.[illegible]		08	4.7	22	24,986	-52.9		05	1.4	18	24,962	-52.9		09	3.6
20	19	26,412	-5[illegible].8		26	2.9	22	26,424	-46.9		08	4.0	22	26,361	-50.0		07	3.9	20	26,436	-50.2		04	1.1	16	26,402	-52.0		08	5.4
15	[illegible]	28,316	-46.8				[illegible]	28,326	-43.4		36	1.9	18	28,263	-46.3		07	2.0	18	28,328	-46.8		31	1.3	12	28,291	-49.7		08	4.7
10							13	31,061	-40.3		0[illegible]	2.2	14	30,979	-41.0		27	5.2							8	31,012	-43.6			

Standard pressure surface (mb)	JACKSON, MS 1006 MB						* ISLE DE CISNE 825 MB						JOHN F. KENNEDY INT. AP NY 1014 MB						JOHNSTON IS., PACIFIC AREA 1015 MB						KEY WEST, FL 1016 MB					
SFC	3[illegible]	100	13.[illegible]	[illegible].6	15	[illegible].2	[illegible]	[illegible]0	-6[illegible]		3[illegible]	6.6	29	5	5.4	-3.3	30	4.0	30	3	24.5	20.4	09	7.2	30	3	24.2	19.6	[illegible]	3.0
1000	3[illegible]	1,013	25.[illegible]	[illegible].9	1[illegible]	[illegible]	[illegible]7	3,934	-63.5		27	42.9	28	130	4.8	-4.1	31	4.1	30	132	23.0	18.7	09	8.0	30	146	23.3	18.3	[illegible]	3.9
950	28	10,153	13.[illegible]	8.5	[illegible]	[illegible].3	[illegible]	4,184	-67.[illegible]		3[illegible]	6.4	29	54	2.7	-5.8	32	6.3	30	578	19.3	16.7	09	9.3	30	592	20.1	14.8	13	4.5
900	3[illegible]	20,120	25.3	22.0	11	5.6	[illegible]6	5,045	-65.8		27	33.4	29	975	.2	-7.8	32	7.5	30	1,042	16.3	12.7	09	9.3	30	1,057	17.7	9.2	14	3.2
850	3[illegible]	20,582	13.9	4.3	17	.8	29	5,27[illegible]	-72.6		31	5.2	29	1,432	-1.7	-10.0	32	8.6	30	1,526	13.5	9.1	09	8.6	30	1,544	15.1	4.7	14	1.7
800	3[illegible]	30,570	2[illegible].6	[illegible].4	1[illegible]	7.4	[illegible]4	[illegible],3[illegible]8	-69.2		27	24.0	29	1,913	-3.4	-13.4	31	10.6	30	2,036	11.5	2.2	09	7.1	30	2,056	13.0	-2.6	19	.4
750	3[illegible]	31,037	12.5	[illegible].5	24	[illegible].2	[illegible]6	6,564	-77.5		34	3.2	29	2,422	-5.6	-15.7	31	12.2	30	2,574	10.0	-7.0	10	4.4	30	2,596	10.8	-6.[illegible]	29	1.4
700	3[illegible]	31,038	18.7	[illegible].2	11	8.7	[illegible]4	7,720	-69.[illegible]		27	[illegible]4.9	29	2,96[illegible]	-8.1	-16.9	30	12.4	30	3,144	7.0	-11.2	12	2.5	30	3,168	8.5	-11.6	31	3.1
650	3[illegible]	31,516	11.5	-[illegible].4	26	5.6	[illegible]7	7,836	-78.8		05	4.3	29	3,533	-10.8	-21.[illegible]	30	13.5	30	3,749	3.2	-13.7	16	1.3	30	3,778	5.6	-14.7	30	4.5
600	3[illegible]	31,527	15.[illegible]	[illegible].4	11	8.5	[illegible]4	8,519	-68.6		27	10.0	29	4,145	-14.2	-24.8	30	15.9	30	4,393	-.5	-16.7	23	1.6	30	4,427	1.6	-17.4	30	6.4
550	3[illegible]	32,021	9.6	-[illegible].4	25	7.[illegible]	[illegible]	8,603	-75.1		07	4.6	29	4,800	-18.3	-28.5	30	18.4	30	5,083	-4.4	-22.5	26	1.9	30	5,122	-2.9	-21.0	29	7.6
500	3[illegible]	32,041	14.2	.5	11	7.[illegible]	[illegible]	9,447	-66.1		28	5.5	29	5,506	-22.6	-32.4	30	21.5	30	5,827	-9.2	-26.7	28	3.5	30	5,870	-7.9	-26.3	30	9.9
450	3[illegible]	32,555	7.[illegible]	-5.9	26	9.4	[illegible]	9,5[illegible]	-69.1		[illegible]	3.9	29	6,271	-27.7	-39.3	30	24.2	30	6,634	-14.5	-31.7	29	5.7	29	6,682	-13.0	-31.0	29	11.9
400	3[illegible]	32,583	[illegible].9	-3.4	10	8.4	25	10,565	-62.[illegible]		29	2.1	29	7,109	-32.8	-43.8	30	28.3	30	7,515	-20.9	-37.0	28	7.8	29	7,569	-19.4	-35.7	30	14.7
350	3[illegible]	33,119	4.3	-6.9	20	[illegible]1.5	[illegible]	10,619	-62.7		08	4.3	29	8,039	-39.3	-47.9	30	31.5	29	8,490	-28.0	-43.1	28	11.4	28	8,552	-26.6	-42.2	29	17.3
300	3[illegible]	33,[illegible]58	9.3	-4.9	1[illegible]	7.[illegible]	2[illegible]	11,956	-58.9		29	2.8	29	9,078	-45.3		29	33.6	29	9,577	-35.8	-49.0	27	17.6	27	9,643	-35.4	-48.9	30	18.3
250	3[illegible]	33,719	.7	-[illegible].3	26	14.3	[illegible]	[illegible]	-59.[illegible]		08	[illegible]	29	10,281	-49.9		30	39.2	29	10,821	-44.5		27	25.3	27	10,886	-45.4		29	19.8
200	3[illegible]	33,769	6.7	-[illegible].1	09	7.3	[illegible]2	13,778	-55.7		32	[illegible]	28	11,730	-51.9		30	35.8	29	12,284	-54.1		27	33.4	27	12,338	-56.3		30	22.3
175	3[illegible]	34,357	-3.[illegible]	-[illegible].5	27	[illegible].2	[illegible]	13,829	-54.8		09	9.4	28	12,592	-53.3		30	30.1	29	13,130	-59.4		27	35.0	27	13,175	-61.8		30	23.7
150	3[illegible]	34,422	3.6	-[illegible].3	0[illegible]	[illegible].4	[illegible]	14,942	-53.4		31	2.4	28	13,585	-53.4		29	26.0	29	14,082	-65.3		27	32.8	27	14,119	-66.2		29	22.1
125	[illegible]	35,041	-[illegible].5	-20.2	26	[illegible].2	[illegible]	15,005	-51.3		08	10.1	28	14,756	-54.5		29	20.2	29	15,175	-71.7		28	27.3	26	15,218	-70.2		29	18.7
100	[illegible]	35,123	-.2	-21.0	0[illegible]	4.9	[illegible]	16,392	-50.6		07	[illegible].7	28	16,180	-56.1		29	16.4	29	16,478	-75.0		28	14.5	26	16,528	-74.9		29	14.1
80	3[illegible]	35,776	-12.7	-24.3	26	22.3	[illegible]5	16,465	-47.1		05	7.7	28	17,596	-57.0		29	10.3	28	17,771	-74.8		27	5.9	26	17,819	-75.7		29	7.4
70	3[illegible]	35,879	-5.[illegible]	-25.0	17	6.1	[illegible]8	18,276	-46.4		28	3.9	27	18,435	-57.5		30	7.7	28	18,553	-71.7		25	2.2	26	18,594	-73.8		31	4.5
60	3[illegible]	36,572	-1[illegible].8	-30.9	26	25.6	[illegible]5	18,389	-43.1		09	5.0	27	19,408	-57.5		30	5.6	28	19,473	-67.5		10	2.6	26	19,504	-68.8		32	2.7
50	3[illegible]	36,698	-1[illegible].5	-29.6	25	5.8	[illegible]	20,937	-41.[illegible]				27	20,562	-56.6		32	2.8	28	20,584	-63.1		10	6.4	26	20,613	-62.7		33	1.8
40	3[illegible]	37,442	-24.[illegible]	-35.1	27	29.3	1[illegible]	21,147	-38.4				25	21,978	-55.7		04	1.7	27	21,969	-60.1		09	7.8	24	22,004	-58.2		31	3.9
30	30	37,593	-17.1	-35.1	0[illegible]	5.4							24	23,823	-53.7		08	3.1	27	23,779	-56.3		09	8.4	22	23,834	-54.5		05	1.8
25	3[illegible]	38,406	-30.6	-39.2	27	37.8							22	25,001	-52.6		08	3.8	27	24,947	-52.7		08	7.0	21	25,006	-52.3		08	1.4
20	3[illegible]	38,583	-24.7	-41.3	03	[illegible]							20	26,456	-50.6		08	2.9	24	26,411	-48.5		07	5.0	21	26,461	-48.5		10	1.8
15	3[illegible]	39,481	-38.5	-47.8	27	[illegible].2							17	28,342	-47.9		06	2.0	23	28,320	-44.6		05	3.2	19	[illegible]8,381	-44.3		23	.9
10	3[illegible]	39,682	-33.6	-48.7	01	6.2							7	31,021	-42.5				20	31,056	-39.9		22	1.4	15	31,152	-30.3		31	2.3
7	29	40,708	-47.9		27	46.2													10	33,512	-36.3									
5	3[illegible]	40,935	-43.5		35	5.5																								
4	29	42,145	-58.2		27	48.7																								
3	3[illegible]	42,398	-54.9		32	6.1																								
2	28	42,99[illegible]	-5[illegible]		27	48.0																								

RAWINSONDE DATA

Average monthly values

KING SALMON, AK
[illegible] MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.s.)
SFC	31	15	-5.2	-7.5	13	.4
1000	23	138	-4.0	-8.1	36	[illegible]
950	30	493	-4.4	-7.4	17	.3
900	31	918	-5.8	-9.2	21	1.4
850	31	1,365	-6.9	-11.2	24	[illegible]
800	31	1,837	-8.7	-14.3	25	2.4
750	30	2,336	-10.9	-17.0	26	3.5
700	30	[illegible]	-13.6	-20.1	26	4.5
650	31	[illegible]	[illegible]	-23.8	26	[illegible]
600	31	[illegible]	-20.3	-27.5	26	7.5
550	31	[illegible]	[illegible]	[illegible]	26	9.2
500	31	[illegible]	-28.4	-35.6	25	10.7
450	31	[illegible]	-33.4	-39.8	26	12.3
400	31	6,917	[illegible]	-42.1	26	14.3
350	30	[illegible]	-45.1	-41.1	26	14.9
300	31	8,837	-50.4		26	15.8
250	30	10,021	[illegible]		26	17.4
200	29	[illegible]	-51.2		27	[illegible]
175	29	12,388	-50.3		26	[illegible]
150	29	13,347	-49.6		25	9.0
125	28	14,542	-49.8		25	7.7
100	28	[illegible]	-49.9		24	5.8
80	28	17,456	-50.8		23	4.1
70	28	18,325	-51.6		24	2.9
60	28	19,326	-51.9		22	2.2
50	28	20,506	-52.5		19	1.3
40	27	21,949	-52.6		12	1.8
30	27	[illegible]	-52.6		10	2.8
25	21	24,964	-52.1		11	3.6
20	15	26,407	-51.8		11	4.0
15	[illegible]	28,280	[illegible]		09	[illegible]
10	7	30,937	-48.6			

KOROR, CAROLINE IS.
[illegible] MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.s.)
SFC	[illegible]	[illegible]	[illegible]	24.2	[illegible]	1.3
1000	29	[illegible]	[illegible]	[illegible]	08	1.4
950	29	540	23.4	21.5	08	1.2
900	29	1,012	20.6	17.6	08	1.7
850	29	[illegible]	[illegible]	13.8	08	[illegible]
800	29	2,024	15.9	8.7	09	6.1
750	29	2,571	13.6	[illegible]	09	5.7
700	29	3,150	[illegible]	[illegible]	[illegible]	5.4
650	29	3,764	7.4	-7.5	09	5.2
600	29	4,419	3.5	[illegible]	08	5.5
550	29	5,120	-.3	[illegible]	08	6.0
500	29	5,877	-4.4	[illegible]	09	5.9
450	29	6,700	-9.0	[illegible]	09	5.6
400	29	7,602	[illegible]	[illegible]	[illegible]	5.4
350	29	8,604	-21.4	[illegible]	[illegible]	4.6
300	29	9,719	[illegible]	-41.4	12	4.1
250	29	10,991	[illegible]	[illegible]	13	[illegible]
200	29	12,472	-52.9		14	4.2
175	29	[illegible]	-59.8		14	3.4
150	29	14,265	-67.6		12	2.5
125	29	15,344	-74.7		08	1.9
100	28	16,617	-81.5		08	5.8
80	27	17,869	-80.6		08	6.6
70	27	18,633	[illegible]		09	7.8
60	26	19,547	-68.7		09	9.6
50	25	20,649	-64.8		09	15.5
40	25	22,025	[illegible]		[illegible]	21.2
30	24	23,865	[illegible]		09	9.1
25	24	25,057	[illegible]		10	2.2
20	23	[illegible]	[illegible]		25	3.6
15	22	28,472	-43.2		25	5.5
10	11	31,239	-39.0			

KOTZEBUE, AK
[illegible] MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.s.)
SFC	30	5	-14.4	-17.4	[illegible]	[illegible]
1000	28	120	-10.9	-14.7	[illegible]	[illegible]
950	30	503	-10.1	-13.6	13	1.9
900	30	[illegible]	-11.0	-14.2	18	[illegible]
850	30	[illegible]	[illegible]	-16.1	[illegible]	[illegible]
800	30	[illegible]	-14.1	-17.7	[illegible]	[illegible]
750	30	[illegible]	[illegible]	-20.4	[illegible]	3.4
700	30	2,824	-19.0	[illegible]	[illegible]	[illegible]
650	30	3,373	[illegible]	-27.1	[illegible]	[illegible]
600	30	3,959	-25.2	-32.4	[illegible]	[illegible]
550	30	[illegible]	-29.1	-36.7	[illegible]	[illegible]
500	30	5,260	-33.7	-41.8	[illegible]	[illegible]
450	30	5,992	-38.7	-43.5	[illegible]	7.8
400	30	[illegible]	[illegible]		[illegible]	[illegible]
350	30	[illegible]	-49.3		23	9.7
300	30	8,677	-52.7		23	[illegible]
250	30	9,856	-51.1		24	9.3
200	30	11,321	-47.5		[illegible]	7.7
175	30	12,204	-47.2		23	7.1
150	30	13,226	-46.6		23	6.8
125	30	14,436	[illegible]		22	6.1
100	30	15,914	[illegible]		22	4.6
80	30	[illegible]	-48.5		22	3.8
70	30	18,264	-49.1		21	3.1
60	30	19,274	-49.8		19	2.5
50	29	[illegible]	-50.0		16	[illegible]
40	28	21,920	[illegible]		15	1.8
30	27	[illegible]	[illegible]		11	[illegible]
25	24	[illegible]	-51.0		11	3.6
20	20	26,434	-51.3		[illegible]	[illegible]

LAKE CHARLES, LA
[illegible] MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.s.)
SFC	30	5	16.3	[illegible]	[illegible]	[illegible]
1000	30	134	16.8	[illegible]	[illegible]	[illegible]
950	30	572	15.9	[illegible]	15	[illegible]
900	30	1,031	14.9	[illegible]	[illegible]	[illegible]
850	30	1,514	13.5	[illegible]	[illegible]	[illegible]
800	30	2,023	11.8	-.3	22	7.3
750	30	2,561	9.7	-3.3	23	9.1
700	30	[illegible]	7.2	[illegible]	[illegible]	10.8
650	30	[illegible]	3.7	[illegible]	25	13.0
600	30	4,383	[illegible]	-16.3	26	14.5
550	30	5,072	[illegible]	-18.7	26	17.6
500	30	[illegible]	[illegible]	[illegible]	26	21.0
450	30	6,612	[illegible]	[illegible]	26	23.4
400	29	7,488	[illegible]	[illegible]	[illegible]	26.2
350	29	8,459	-29.2	[illegible]	[illegible]	29.9
300	29	9,540	-37.3	-47.3	26	33.2
250	29	10,774	-46.8		26	[illegible]
200	29	[illegible]	-57.5		27	[illegible]
175	29	13,053	[illegible]		26	[illegible]
150	29	13,998	-65.1		26	[illegible]
125	29	15,104	-67.3		26	[illegible]
100	28	16,444	-70.5		26	21.8
80	28	[illegible]	[illegible]		26	11.8
70	28	[illegible]	-69.5		[illegible]	7.6
60	28	[illegible]	-66.3		[illegible]	4.2
50	27	20,595	-62.0		29	1.8
40	[illegible]	[illegible]	-58.4		26	[illegible]
30	24	[illegible]	-54.9		33	[illegible]
25	24	24,983	-52.2		30	[illegible]
20	23	26,442	-49.6		28	[illegible]
15	20	28,345	-44.6		26	3.9

[illegible]
[illegible] MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.s.)
SFC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
800	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
750	[illegible]	2,442	-3.4	-11.6	26	[illegible]
700	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
650	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
600	[illegible]	4,170	[illegible]	-22.5	25	[illegible]
550	[illegible]	4,823	[illegible]	[illegible]	[illegible]	[illegible]
500	[illegible]	5,525	[illegible]	-32.9	24	[illegible]
450	[illegible]	[illegible]	[illegible]	-38.2	24	[illegible]
400	[illegible]	7,114	[illegible]	[illegible]	[illegible]	[illegible]
350	[illegible]	8,033	[illegible]	[illegible]	[illegible]	[illegible]
300	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
250	[illegible]	[illegible]	-55.0		[illegible]	[illegible]
200	[illegible]	11,656	-55.0		[illegible]	[illegible]
175	[illegible]	[illegible]	-53.6		[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
100	[illegible]	16,105	-55.7		[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
70	[illegible]	18,368	[illegible]		[illegible]	[illegible]
60	[illegible]	19,342	-57.4		[illegible]	[illegible]
50	[illegible]	20,494	[illegible]		[illegible]	[illegible]
40	[illegible]	21,906	-56.7		[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
25	[illegible]	24,905	-54.2		[illegible]	[illegible]
20	[illegible]	[illegible]	-52.9		[illegible]	[illegible]
15	[illegible]	28,197	[illegible]		[illegible]	[illegible]
10	[illegible]	30,876	-45.1			

LIHUE, KAUAI, HI
1016 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.s.)
SFC	30	36	22.2	18.5	08	5.4
1000	30	172	21.3	16.5	08	4.8
950	30	615	17.5	14.8	08	[illegible]
900	30	1,075	14.1	11.4	09	7.9
850	30	1,556	11.0	7.9	09	6.8
800	30	2,060	8.4	2.6	09	5.9
750	30	2,592	[illegible]	[illegible]	[illegible]	4.7
700	30	3,158	5.6	-15.1	[illegible]	[illegible]
650	30	3,761	2.4	-17.4	16	[illegible]
600	30	4,402	-2.1	-20.7	24	[illegible]
550	30	5,087	-6.6	[illegible]	24	[illegible]
500	30	5,825	-11.4	-28.2	26	[illegible]
450	30	6,624	-16.8	[illegible]	26	6.2
400	30	7,498	-23.1	-38.5	27	8.3
350	30	8,464	-30.6	-45.4	26	10.7
300	30	9,537	-39.4	-51.6	26	14.9
250	29	10,760	-48.4		26	[illegible]
200	29	12,198	-57.6		26	[illegible]
175	29	13,034	[illegible]		26	[illegible]
150	29	13,982	-65.1		27	[illegible]
125	29	15,085	-67.9		27	21.2
100	29	16,415	-71.2		26	15.1
80	28	17,735	[illegible]		26	9.2
70	28	18,531	-68.5		26	6.2
60	27	19,461	[illegible]		27	7.7
50	25	20,574	-63.4		33	1.5
40	24	21,954	-60.5		22	.4
30	24	23,764	-56.0		04	.8
25	23	24,937	-52.9		06	1.8
20	23	26,389	-49.3		06	2.9
15	[illegible]	[illegible]	-45.9		06	1.9
10	5	30,996	-42.9			
7						

LITTLE ROCK, AR
1008 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.s.)
SFC	30	79	11.0	7.7	21	.5
1000	26	156	[illegible]	6.3	18	.2
950	30	575	[illegible]	5.1	21	3.3
900	30	1,028	11.3	2.0	[illegible]	4.6
850	30	1,504	10.1	-3.1	25	6.5
800	30	2,007	8.1	-6.3	26	7.4
750	30	2,536	5.2	-10.2	26	8.1
700	30	3,096	1.7	-13.6	26	10.5
650	29	3,690	-1.5	-16.8	[illegible]	13.4
600	29	4,323	-5.2	[illegible]	[illegible]	17.1
550	29	[illegible]	-9.6	[illegible]	26	20.2
500	29	5,730	-14.4	[illegible]	26	23.0
450	29	6,521	-19.6	[illegible]	26	25.9
400	29	7,385	-25.8	[illegible]	26	30.6
350	29	[illegible]	-32.6	[illegible]	26	35.5
300	29	9,408	-40.4	[illegible]	26	41.5
250	29	10,628	[illegible]		26	48.1
200	28	12,056	-58.3		26	51.3
175	28	12,891	[illegible]		27	50.1
150	28	13,847	[illegible]		[illegible]	43.6
125	28	14,973	-62.4		[illegible]	33.7
100	28	16,342	-65.5		26	24.1
80	28	17,696	[illegible]		[illegible]	16.1
70	28	18,505	-65.7		[illegible]	10.4
60	28	19,445	-64.2		[illegible]	[illegible]
50	28	20,569	[illegible]		[illegible]	2.9
40	28	[illegible]	[illegible]		[illegible]	1.5
30	28	23,788	-55.1		35	1.6
25	28	24,958	[illegible]		35	1.1
20	26	26,399	[illegible]		[illegible]	1.6
15	23	28,291	-46.3		[illegible]	2.7
10	9	31,048	[illegible]			

MCGRATH, AK
[illegible] MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.s.)
SFC	30	[illegible]	[illegible]	-11.5	[illegible]	.4
1000	[illegible]	[illegible]	[illegible]	-13.0	[illegible]	.4
950	30	[illegible]	[illegible]	-11.0	[illegible]	.7
900	30	[illegible]	[illegible]	-12.7	[illegible]	1.4
850	30	[illegible]	[illegible]	-14.5	19	2.3
800	30	[illegible]	[illegible]	-15.8	[illegible]	[illegible]
750	30	[illegible]	[illegible]	-19.2	[illegible]	[illegible]
700	30	[illegible]	[illegible]	-23.2	[illegible]	4.4
650	30	[illegible]	-19.3	-27.0	[illegible]	[illegible]
600	30	[illegible]	-22.8	-30.8	22	5.9
550	30	[illegible]	-26.7	-36.0	[illegible]	6.7
500	30	5,316	[illegible]	-40.2	23	7.6
450	[illegible]	6,056	-35.9	-43.0	24	8.8
400	30	6,865	-41.6	-44.7	24	[illegible]
350	30	7,761	-47.5		24	[illegible]
300	30	8,766	-52.2		[illegible]	[illegible]
250	30	[illegible]	[illegible]		25	13.5
200	30	[illegible]	[illegible]		25	11.0
175	30	[illegible]	[illegible]		24	9.5
150	30	[illegible]	[illegible]		24	8.6
125	30	14,499	[illegible]		24	6.6
100	30	[illegible]	[illegible]		23	5.3
80	29	[illegible]	[illegible]		22	[illegible]
70	29	[illegible]	-50.3		22	2.9
60	29	[illegible]	[illegible]		22	1.6
50	28	[illegible]	-51.3		17	[illegible]
40	28	[illegible]	[illegible]		[illegible]	1.5
30	[illegible]	[illegible]	[illegible]		11	[illegible]
25	[illegible]	[illegible]	[illegible]		[illegible]	3.4
20	[illegible]	[illegible]	-51.6		[illegible]	4.1
15	17	28,323	[illegible]		[illegible]	5.5

MAJURO, MARSHALL IS.
[illegible] MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.s.)
SFC	30	3	27.7	23.9	07	[illegible]
1000	30	93	26.5	22.4	07	[illegible]
950	30	545	[illegible]	20.5	[illegible]	[illegible]
900	30	1,015	20.1	17.0	08	[illegible]
850	30	1,508	17.7	13.5	08	9.2
800	30	2,026	15.7	[illegible]	09	[illegible]
750	30	2,572	[illegible]	4.0	09	[illegible]
700	30	3,150	10.4	.8	10	[illegible]
650	30	3,764	7.1	-3.2	[illegible]	3.8
600	30	[illegible]	3.6	-6.3	10	[illegible]
550	30	5,121	-.2	-10.9	10	1.9
500	30	5,879	-4.5	-17.0	07	2.3
450	30	6,702	-8.9	-21.5	03	1.5
400	30	7,605	[illegible]	-27.3	33	1.5
350	30	8,608	-21.0	[illegible]	30	2.4
300	30	9,725	-29.4	-42.2	26	4.3
250	30	11,000	-39.8	-51.6	25	[illegible]
200	30	12,486	-51.8		26	9.5
175	30	13,339	-58.6		26	[illegible]
150	30	14,290	-66.4		27	[illegible]
125	30	15,374	-74.0		28	[illegible]
100	30	16,649	-81.3		[illegible]	[illegible]
80	30	17,907	[illegible]		02	[illegible]
70	30	18,678	-73.4		06	4.3
60	30	19,592	[illegible]		09	9.9
50	30	20,700	-63.4		09	[illegible]
40	[illegible]	22,090	-57.6		09	[illegible]
30	[illegible]	23,938	-50.8		09	5.1
25	26	25,141	-48.1		[illegible]	2.0
20	[illegible]	26,627	-44.1		26	[illegible]
15	21	28,576	-41.5		26	[illegible]

MEDFORD, OR
[illegible] MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.s.)
SFC	30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1000						
950	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
900	[illegible]	1,010	[illegible]	-2.5	[illegible]	[illegible]
850	[illegible]	1,468	[illegible]	[illegible]	[illegible]	[illegible]
800	[illegible]	[illegible]	[illegible]	-8.9	[illegible]	[illegible]
750	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
700	[illegible]	2,991	-10.2	-21.6	[illegible]	[illegible]
650	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
600	[illegible]	4,164	[illegible]	-28.8	[illegible]	[illegible]
550	[illegible]	4,812	[illegible]	[illegible]	[illegible]	[illegible]
500	[illegible]	[illegible]	-26.3	-36.1	[illegible]	[illegible]
450	[illegible]	6,262	-31.0	-40.5	[illegible]	[illegible]
400	[illegible]	7,085	-37.0	[illegible]	[illegible]	[illegible]
350	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
300	[illegible]	9,019	[illegible]		[illegible]	[illegible]
250	30	10,204	-53.5		[illegible]	[illegible]
200	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
175	[illegible]	12,491	-53.6		[illegible]	[illegible]
150	[illegible]	13,482	-53.9		[illegible]	[illegible]
125	[illegible]	14,651	-54.4		[illegible]	[illegible]
100	[illegible]	16,081	[illegible]		[illegible]	[illegible]
80	[illegible]	17,501	-55.9		[illegible]	[illegible]
70	[illegible]	18,349	-56.7		[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
50	[illegible]	20,480	-56.4		[illegible]	[illegible]
40	[illegible]	21,903	-56.1		[illegible]	[illegible]
30	[illegible]	23,745	-55.4		[illegible]	[illegible]
25	[illegible]	24,916	[illegible]		[illegible]	[illegible]
20	18	26,353	[illegible]		[illegible]	[illegible]
15	[illegible]	28,220	[illegible]		[illegible]	[illegible]
10	[illegible]	30,913	[illegible]		[illegible]	[illegible]
7	[illegible]	[illegible]	-40.0			

MERIDA, MEXICO
1012 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.s.)
SFC	29	11	22.2	20.7	11	[illegible]
1000	29	116	22.7	[illegible]	12	5.7
950	29	563	21.4	[illegible]	[illegible]	11.5
900	29	1,033	21.7	[illegible]	14	9.2
850	29	1,527	19.3	5.6	13	6.4
800	29	2,046	16.7	-.1	12	[illegible]
750	29	2,593	14.2	-6.0	13	3.2
700	29	3,171	[illegible]	-10.6	13	2.4
650	29	3,786	7.9	-13.8	11	[illegible]
600	29	4,441	3.9	-17.2	[illegible]	1.9
550	29	[illegible]	-.3	-20.9	03	1.7
500	29	5,897	-5.4	-25.1	36	[illegible]
450	29	6,716	-10.8	-29.8	33	[illegible]
400	29	7,609	-17.4	-35.1	32	2.7
350	29	8,598	-24.9	-41.1	29	3.7
300	29	9,696	-33.8	[illegible]	27	[illegible]
250	29	10,948	-43.9		26	6.9
200	29	12,408	-55.4		28	9.7
175	29	13,250	-60.8		28	11.4
150	28	14,194	-66.3		27	[illegible]
125	27	15,286	[illegible]		27	9.4
100	27	16,585	[illegible]		26	7.4
80	27	17,860	-78.2		29	3.7
70	27	18,629	-75.2		30	2.4
60	26	19,533	-69.9		32	.3
50	24	20,642	-62.1		12	[illegible]
40	23	22,039	-57.7		07	[illegible]
30	22	23,876	-53.8		09	4.2
25	21	25,055	-51.8		[illegible]	[illegible]
20	19	26,508	-47.8		05	7.3
15	13	28,405	-43.8		06	2.5
10						

MIAMI, FL
1018 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.s.)
SFC	[illegible]	4	21.7	[illegible]	[illegible]	[illegible]
1000	[illegible]	155	22.1	[illegible]	[illegible]	[illegible]
950	30	599	19.1	[illegible]	[illegible]	[illegible]
900	[illegible]	1,063	17.1	[illegible]	15	[illegible]
850	[illegible]	1,549	[illegible]	[illegible]	[illegible]	[illegible]
800	[illegible]	2,060	12.6	[illegible]	[illegible]	[illegible]
750	[illegible]	2,599	10.4	-7.7	[illegible]	[illegible]
700	[illegible]	3,171	[illegible]	-11.0	[illegible]	4.6
650	29	3,779	4.9	-13.9	[illegible]	[illegible]
600	29	[illegible]	1.0	-17.1	[illegible]	9.3
550	[illegible]	5,120	-3.4	-20.0	[illegible]	[illegible]
500	[illegible]	5,867	[illegible]	-26.3	[illegible]	[illegible]
450	29	[illegible]	-13.4	[illegible]	[illegible]	[illegible]
400	29	7,562	-19.9	[illegible]	[illegible]	[illegible]
350	[illegible]	8,542	-27.1	-42.0	[illegible]	[illegible]
300	[illegible]	[illegible]	-35.8	[illegible]	[illegible]	[illegible]
250	[illegible]	[illegible]	-45.7		[illegible]	[illegible]
200	[illegible]	[illegible]	-56.4		[illegible]	[illegible]
175	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
100	[illegible]	[illegible]	-73.0		[illegible]	[illegible]
80	[illegible]	[illegible]	-73.8		[illegible]	[illegible]
70	[illegible]	[illegible]	-71.8		[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
40	28	[illegible]	[illegible]		[illegible]	[illegible]
30	28	[illegible]	[illegible]		[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
15	[illegible]	[illegible]	-44.7		[illegible]	[illegible]
10	5	[illegible]	[illegible]			

MIDLAND, TX
913 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.s.)
SFC	30	874	[illegible]	2.5	15	[illegible]
1000						
950						
900	[illegible]	994	12.9	3.5	17	[illegible]
850	30	1,475	13.3	-.5	20	[illegible]
800	[illegible]	[illegible]	11.5	-4.0	23	[illegible]
750	30	2,521	8.5	-8.6	24	[illegible]
700	30	[illegible]	4.6	-12.6	24	[illegible]
650	30	[illegible]	.7	-16.6	24	[illegible]
600	30	4,323	-3.7	-19.8	24	[illegible]
550	30	5,004	-8.5	-24.8	24	21.5
500	30	5,736	-13.4	-28.7	[illegible]	24.7
450	30	6,530	-18.8	[illegible]	[illegible]	[illegible]
400	[illegible]	7,396	-25.4	[illegible]	[illegible]	31.2
350	[illegible]	8,355	-32.2	[illegible]	[illegible]	35.6
300	[illegible]	9,422	-40.3	[illegible]	[illegible]	41.1
250	[illegible]	10,643	-48.6		[illegible]	46.3
200	[illegible]	12,080	-57.6		[illegible]	50.0
175	[illegible]	12,917	-60.6		[illegible]	[illegible]
150	[illegible]	13,872	-62.3		[illegible]	42.1
125	[illegible]	[illegible]	-64.8		[illegible]	33.9
100	[illegible]	16,346	-66.9		[illegible]	26.1
80	[illegible]	17,693	-68.5		[illegible]	16.1
70	[illegible]	18,497	-66.9		[illegible]	8.4
60	[illegible]	[illegible]	[illegible]		[illegible]	4.1
50	[illegible]	20,558	-61.1		[illegible]	[illegible]
40	[illegible]	21,957	-57.4		[illegible]	[illegible]
30	[illegible]	23,788	-55.2		[illegible]	[illegible]
25	[illegible]	24,958	-52.9		[illegible]	[illegible]
20	[illegible]	26,411	-49.9		[illegible]	[illegible]
15	[illegible]	28,317	-45.3		[illegible]	[illegible]
10	[illegible]	31,047	-39.7			

MONTERREY, MEXICO
961 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.s.)
SFC	27	423	18.7	[illegible]	03	[illegible]
1000						
950	[illegible]	545	18.6	[illegible]	05	[illegible]
900	[illegible]	[illegible]	17.3	11.4	15	1.7
850	[illegible]	1,498	16.3	[illegible]	[illegible]	3.7
800	[illegible]	2,014	16.9	-.2	[illegible]	4.7
750	[illegible]	2,563	15.3	[illegible]	[illegible]	6.2
700	[illegible]	3,143	11.8	-8.0	[illegible]	7.9
650	[illegible]	3,760	7.0	[illegible]	[illegible]	8.9
600	[illegible]	4,411	1.6	[illegible]	[illegible]	10.3
550	[illegible]	5,105	-4.1	[illegible]	[illegible]	12.7
500	[illegible]	5,850	-8.9	-21.2	[illegible]	15.4
450	[illegible]	6,659	-13.5	[illegible]	[illegible]	18.3
400	[illegible]	7,544	-19.9	[illegible]	[illegible]	22.2
350	[illegible]	[illegible]	-27.1	[illegible]	[illegible]	25.4
300	[illegible]	9,613	-35.6	[illegible]	[illegible]	27.1
250	[illegible]	10,855	-45.6		[illegible]	30.1
200	[illegible]	12,304	-56.6		[illegible]	32.7
175	[illegible]	13,140	[illegible]		[illegible]	31.5
150	[illegible]	14,082	-66.6		[illegible]	29.8
125	[illegible]	15,175	-70.2		[illegible]	27.7
100	[illegible]	16,484	-74.6		[illegible]	20.2
80	[illegible]	17,777	-75.5		[illegible]	12.6
70	[illegible]	[illegible]	-72.6		[illegible]	8.9
60	[illegible]	19,478	-66.4		[illegible]	4.8
50	[illegible]	[illegible]	-62.2		[illegible]	2.2
40	[illegible]	21,988	-58.1		[illegible]	.8
30	[illegible]	23,818	-53.9		[illegible]	.6
25	[illegible]	24,994	-52.1		[illegible]	[illegible]
20	[illegible]	26,437	-49.8		[illegible]	[illegible]
15	[illegible]	28,340	-45.6		[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]			

MONETT, MO
[illegible] MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.s.)
SFC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1000						
950	[illegible]	560	[illegible]	3.6	17	[illegible]
900	[illegible]	1,012	[illegible]	.2	[illegible]	[illegible]
850	[illegible]	1,485	[illegible]	[illegible]	[illegible]	[illegible]
800	[illegible]	1,987	5.6	-5.9	[illegible]	[illegible]
750	[illegible]	2,512	2.9	-9.3	26	[illegible]
700	[illegible]	3,068	[illegible]	[illegible]	26	[illegible]
650	[illegible]	3,658	-3.6	[illegible]	[illegible]	[illegible]
600	[illegible]	[illegible]	-8.1	[illegible]	26	[illegible]
550	[illegible]	4,955	[illegible]	[illegible]	[illegible]	[illegible]
500	[illegible]	5,677	-16.9	[illegible]	[illegible]	[illegible]
450	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
400	[illegible]	7,314	-28.5	[illegible]	[illegible]	[illegible]
350	[illegible]	8,261	-34.9	[illegible]	[illegible]	[illegible]
300	[illegible]	9,316	[illegible]	[illegible]	[illegible]	[illegible]
250	[illegible]	10,526	[illegible]		[illegible]	[illegible]
200	[illegible]	11,959	[illegible]		[illegible]	[illegible]
175	[illegible]	12,798	[illegible]		[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
125	[illegible]	14,899	[illegible]		[illegible]	[illegible]
100	[illegible]	16,276	[illegible]		[illegible]	[illegible]
80	[illegible]	17,649	[illegible]		[illegible]	[illegible]
70	[illegible]	18,468	[illegible]		[illegible]	[illegible]
60	24	19,416	[illegible]		[illegible]	[illegible]
50	24	20,546	[illegible]		[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
20	18	26,362	-51.1		[illegible]	[illegible]
15	17	[illegible]	[illegible]		[illegible]	[illegible]
10		30,950	-41.6			

RAWINSONDE DATA

Average monthly values

NASHVILLE, TN
997 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	29	180	9.3	5.4	25	[illegible]
1000	[illegible]	[illegible]	4.9	-4.8	32	2.0
950	27	582	9.7	1.2	25	[illegible]
900	29	1,030	7.8	-1.0	27	5.8
850	29	1,501	6.0	-3.6	28	7.2
800	29	[illegible]	4.1	-8.8	28	8.8
750	29	2,519	2.2	-11.1	26	11.0
700	29	3,074	-.4	-13.3	28	13.9
650	29	3,664	-3.2	-16.4	28	16.1
600	29	4,293	[illegible]	-17.8	28	18.7
550	29	4,966	-11.2	-22.9	27	[illegible]
500	29	5,691	[illegible]	-28.4	27	24.7
450	29	6,477	-21.2	-32.5	27	27.7
400	29	7,336	-27.1	-38.6	27	[illegible]
350	29	8,289	-33.7	-43.9	27	35.6
300	29	9,349	-41.6	-45.8	27	40.3
250	28	10,564	-49.9		27	46.1
200	28	11,995	-58.0		29	48.0
175	28	12,833	-59.4		28	[illegible]
150	28	13,797	-60.1		28	36.3
125	28	[illegible]	-62.1		28	29.6
100	28	16,303	-64.2		28	27.2
80	26	17,671	-64.5		29	12.9
70	26	18,488	-63.9		28	9.0
60	25	19,439	-62.7		29	6.0
50	25	20,568	-60.7		31	2.2
40	25	21,965	-58.1		32	1.9
30	24	23,793	-54.9		04	1.8
25	22	24,959	-53.2		36	1.2
20	22	26,404	-50.7		30	2.2
15	21	28,291	-46.7		28	4.0
10	13	30,977	-40.3			

* NOME, AK
1012 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	30	5	-11.5	-13.2	29	2.3
1000	28	110	-8.8	-11.1	[illegible]	[illegible]
950	30	494	-9.1	-11.9	14	2.8
900	30	912	-10.2	-13.1	16	2.3
850	30	1,351	-11.5	-15.2	17	2.6
800	30	1,814	-13.4	-19.4	19	2.7
750	30	2,303	-15.8	-21.4	21	3.0
700	30	2,821	-18.3	-25.1	22	3.4
650	30	3,371	-21.5	-28.9	22	4.0
600	30	3,957	-25.0	-33.0	22	4.7
550	30	[illegible]	-28.8	-37.6	23	5.3
500	30	[illegible]	-33.2	-41.8	24	6.6
450	30	5,993	-38.2	-44.6	23	7.6
400	30	6,794	-43.5		24	7.6
350	30	7,684	-48.7		24	9.0
300	30	8,686	-52.4		24	9.2
250	30	9,865	-51.3		24	9.6
200	30	11,328	-47.9		24	8.1
175	30	12,209	-47.8		23	7.8
150	29	13,229	-47.5		23	7.7
125	29	14,435	-47.4		22	6.5
100	28	15,913	-47.6		22	5.0
80	28	17,384	-48.6		21	4.8
70	26	18,260	-49.6		20	2.9
60	28	19,267	-50.3		19	2.8
50	27	20,458	-50.5		17	2.2
40	27	21,911	-51.2		15	2.9
30	26	23,777	-51.7		12	2.6
25	25	24,963	-51.8		11	3.6
20	25	26,411	-51.7		11	3.6
15	17	28,276	-51.3		10	5.7

NORTH PLATTE, NE
914 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	29	847	2.7	[illegible]	14	1.1
900	29	973	4.1	.8	17	1.5
850	29	1,439	3.5	-2.4	24	3.5
800	29	1,931	2.5	-7.2	26	5.4
750	29	2,451	.2	-11.5	26	6.7
700	29	3,001	-3.0	-14.8	26	8.5
650	29	3,584	-6.9	-18.3	26	9.8
600	29	4,203	-11.3	-22.0	26	11.6
550	29	4,864	-16.3	-26.4	26	12.9
500	29	5,574	[illegible]	[illegible]	25	14.3
450	29	6,341	-27.3	-36.4	25	15.8
400	29	7,179	[illegible]	-44.1	25	17.5
350	29	8,104	-40.6	-48.2	25	20.0
300	29	9,136	-47.3		25	23.8
250	29	10,326	-52.9		25	26.2
200	29	11,754	-56.2		25	27.0
175	29	12,604	-55.4		25	25.4
150	29	13,589	-54.6		25	23.3
125	29	14,753	-55.1		26	19.3
100	29	16,170	-57.4		26	15.1
80	28	17,576	-59.3		26	10.1
70	28	18,412	[illegible]		26	8.6
60	28	19,379	-58.7		26	5.3
50	27	20,526	-57.9		26	2.9
40	26	21,943	-55.8		27	.7
30	23	23,779	-54.6		06	1.9
25	21	24,949	-53.3		05	2.5
20	20	26,395	-51.7		06	3.6
15	20	28,271	-49.2		07	1.7
10	7	30,990	-43.3			

OAKLAND, CA
1016 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	30	6	8.1	5.6	25	.4
1000	30	139	8.2	4.7	27	1.1
950	30	562	6.5	.5	29	[illegible]
900	30	1,005	5.2	-4.4	31	3.5
850	30	1,469	2.2	-8.4	31	3.8
800	30	1,956	-.8	-12.6	30	4.3
750	30	2,469	-3.6	-18.5	29	5.2
700	30	3,010	-7.0	-23.7	30	6.5
650	30	3,584	-10.8	-25.8	30	7.1
600	30	4,195	-15.0	-29.5	30	8.7
550	30	4,848	-18.9	-33.2	30	10.9
500	30	5,551	-23.7	-37.2	30	12.6
450	30	6,313	-28.6	-38.9	30	15.4
400	30	7,147	-34.3	-43.6	29	18.3
350	29	8,070	-40.3	-50.1	29	20.7
300	29	9,104	-47.0		29	23.0
250	29	10,295	-53.0		29	23.5
200	28	11,726	-55.2		29	22.9
175	28	12,579	-54.9		28	21.2
150	28	13,565	-55.0		28	19.3
125	28	14,728	-56.0		27	17.2
100	26	16,137	-58.0		27	13.7
80	25	17,542	-58.5		26	9.5
70	24	18,384	-58.8		26	7.3
60	23	19,355	-58.9		26	5.0
50	23	20,501	-58.4		25	3.7
40	23	21,910	-56.9		24	1.9
30	23	23,738	-55.6		31	.5
25	22	24,902	-54.6		36	.4
20	18	26,343	-52.5		31	.7
15	14	28,204	-49.8		32	2.7
10	5	30,906	-44.4			

OMAHA, NE
966 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	30	403	4.3	1.3	12	1.4
950	29	542	5.1	1.5	15	2.3
900	30	980	5.1	-.4	16	7.4
850	30	1,446	3.9	-3.4	27	7.6
800	30	1,937	1.8	-6.6	24	6.6
750	30	2,456	-.7	-9.3	25	7.8
700	30	3,005	-3.3	-14.6	25	10.7
650	30	3,588	-6.6	-18.4	26	13.0
600	30	4,208	-11.0	-23.1	26	15.0
550	30	4,870	-15.9	-27.0	26	17.0
500	30	5,580	-21.2	-32.9	26	20.3
450	30	6,350	-26.6	-38.3	25	22.4
400	30	7,190	-32.7	-43.9	26	25.6
350	30	8,120	-39.3	-45.6	26	28.9
300	30	9,156	-46.7		26	33.3
250	30	10,350	-52.4		26	37.9
200	30	11,782	-55.6		25	37.2
175	30	12,633	-55.6		26	35.6
150	30	13,616	-55.4		26	31.2
125	30	14,774	-57.1		27	26.4
100	30	16,184	-57.6		27	18.9
80	30	17,588	-58.7		27	10.6
70	30	18,426	-59.3		27	6.5
60	29	19,393	-59.0		28	3.9
50	28	20,538	-57.7		36	1.0
40	27	21,953	-56.3		07	4.1
30	26	23,786	-54.5		07	5.0
25	25	24,957	-53.5		07	5.0
20	20	26,394	-51.3		07	4.4
15	14	28,276	-48.4		07	1.9
10	7	30,965	-42.0			

PAGO PAGO, AMERICAN SAMOA
* 101 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	30	5	28.4	24.2	08	2.9
1000	30	96	26.5	22.6	08	2.8
950	30	549	22.9	20.5	06	2.9
900	30	1,019	20.0	16.6	04	3.1
850	30	1,511	17.0	12.7	03	4.0
800	30	2,027	14.6	9.6	01	2.7
750	30	2,572	12.1	5.6	36	[illegible]
700	30	3,147	9.2	1.8	35	.7
650	30	3,759	5.8	-1.5	35	2.7
600	30	[illegible]	2.1	-5.4	34	[illegible]
550	30	5,108	-1.4	-10.8	32	.5
500	30	5,862	-5.8	-15.8	15	.5
450	30	6,682	-10.3	-21.9	19	1.7
400	30	7,580	-16.0	-28.9	20	2.9
350	29	8,575	-22.9	-34.8	21	3.7
300	29	9,683	-31.5	-42.4	22	5.4
250	29	[illegible]	-41.7		21	[illegible]
200	29	[illegible]	-54.2		21	11.2
175	29	13,262	-61.0		21	12.0
150	29	14,204	-67.7		21	11.9
125	29	15,284	-74.1		21	9.0
100	29	16,566	-79.2		21	4.0
80	29	17,840	-75.3		10	3.2
70	29	18,619	-72.6		09	6.6
60	29	19,535	-68.1		09	11.2
50	28	20,643	-63.3		09	15.4
40	28	[illegible]	-59.3		09	16.0
30	28	23,853	-54.3		09	17.2
25	28	25,032	-50.6		09	14.5
20	27	26,502	-46.4		09	9.0
15	26	28,429	-43.0		09	4.0
10	13	31,200	-37.0			
7						

* PEORIA, IL
994 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	30	200	4.2	.6	10	1.0
1000	8	223	-.1	-3.8		
950	30	565	4.8	-1.3	16	1.9
900	30	1,007	4.8	-3.5	24	3.1
850	30	1,472	3.1	-5.4	26	5.6
800	30	1,962	1.1	-7.6	27	7.6
750	30	2,478	-1.7	-10.9	28	8.7
700	30	3,024	-4.6	-14.5	28	10.0
650	30	3,604	-7.8	-19.0	28	13.1
600	30	4,223	-11.3	-23.4	28	15.8
550	30	4,885	-15.5	-27.7	28	18.0
500	30	5,599	-19.9	-31.7	28	20.5
450	30	6,372	-25.4	-36.3	28	23.3
400	30	7,217	-31.3	-42.1	27	26.1
350	30	8,152	-38.2	-47.2	27	30.2
300	30	9,193	-45.7		27	34.2
250	30	10,389	-52.2		27	39.1
200	29	11,817	-56.7		27	41.8
175	29	12,661	-57.5		27	39.0
150	29	13,636	-57.4		28	32.8
125	29	14,789	-57.2		27	26.8
100	29	16,194	-59.0		27	19.8
80	29	17,591	-60.3		27	12.5
70	29	18,422	-60.5		28	10.7
60	29	19,385	-59.7		28	6.6
50	29	20,528	-58.6		29	2.2
40	29	21,933	-57.6		02	1.0
30	29	23,759	-55.5		06	3.2
25	28	24,928	-54.1		07	3.3
20	25	26,350	-52.6		07	3.2
15	17	28,220	-49.2		16	.1

* PITTSBURGH, PA
974 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	30	359	3.1	-3.3	27	1.7
950	29	568	3.2	[illegible]	30	2.3
900	30	999	1.5	-5.0	29	5.5
850	30	1,457	-.5	-7.8	30	7.8
800	30	1,941	-2.1	-10.1	30	10.7
750	30	2,452	-4.0	-12.8	30	12.5
700	30	2,994	-6.5	[illegible]	30	14.8
650	30	3,571	-9.1	-21.5	30	16.9
600	30	4,187	-12.2	-25.0	29	19.2
550	30	4,847	-16.3	-28.5	29	21.3
500	30	5,558	-21.1	-33.3	29	23.7
450	30	6,328	-26.1	-37.6	29	25.6
400	30	7,170	-31.9	-42.6	29	29.0
350	30	[illegible]	-38.1	-46.7	29	32.9
300	30	9,148	-44.6		29	39.0
250	30	10,352	-50.5		29	43.4
200	30	11,793	-54.4		29	41.1
175	30	12,646	-55.3		29	33.8
150	30	13,629	-55.6		29	29.6
125	30	14,788	-57.1		29	25.4
100	29	16,200	-57.7		29	18.8
80	29	17,604	-58.7		28	12.4
70	29	18,444	-58.6		29	9.2
60	29	19,413	-58.7		30	5.8
50	29	20,560	-58.0		31	2.9
40	27	21,970	-56.3		01	1.2
30	25	23,808	-54.4		06	2.0
25	23	24,976	-53.2		06	2.3
20	23	26,420	-51.3		07	1.7
15	14	28,299	-48.0		06	2.6

PONAPE, CAROLINE IS.
* 1005 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	30	39	28.5	23.9	06	3.8
1000	30	78	26.3	22.5	06	4.2
950	30	531	23.0	20.9	08	7.6
900	30	1,001	19.8	17.5	08	9.3
850	30	1,493	17.1	12.9	09	9.0
800	30	2,010	15.7	7.7	09	7.3
750	30	2,557	13.1	4.2	09	6.1
700	30	3,134	10.3	-1.4	10	4.9
650	30	3,748	7.1	-3.7	10	5.0
600	30	4,402	3.5	-9.4	09	4.9
550	30	5,104	-.2	-14.2	08	4.7
500	30	5,861	-4.4	-16.8	08	4.1
450	30	6,684	-9.2	-22.5	08	5.4
400	30	7,586	-14.5	-29.5	06	5.0
350	30	8,588	-21.4	-36.0	06	3.5
300	29	9,703	-29.6	-43.0	09	1.9
250	29	10,976	-39.8	-51.0	18	2.2
200	29	12,461	-52.3		22	3.5
175	29	13,311	-59.1		24	3.6
150	29	14,260	-67.0		26	3.6
125	29	15,339	-75.2		30	2.7
100	29	16,607	-82.3		02	2.3
80	29	17,850	-81.2		06	3.8
70	29	18,614	-74.8		09	5.9
60	29	19,524	-68.9		10	9.2
50	28	20,628	-64.3		10	16.1
40	28	22,008	-59.8		09	21.0
30	27	23,839	-52.4		09	9.4
25	23	25,030	-48.4		08	1.2
20	23	26,507	-46.1		26	3.8
15	18	28,425	-42.8		26	5.5

PORTLAND, ME
1009 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	30	20	1.7	-3.3	33	2.2
1000	25	120	2.5	-5.9	33	3.0
950	30	508	.8	-6.7	34	4.3
900	30	940	-1.6	-7.8	35	4.6
850	30	1,393	-4.7	-9.6	34	4.7
800	30	1,868	-6.9	-12.3	32	6.2
750	30	2,370	-8.5	-16.2	31	8.4
700	30	2,904	-10.1	-19.5	30	10.1
650	30	3,472	-12.8	-22.7	30	11.2
600	30	4,079	-16.3	-26.5	30	12.0
550	30	4,729	-20.2	-30.0	30	12.5
500	30	5,429	-24.7	-33.8	30	14.1
450	30	6,188	-29.7	-38.9	30	16.1
400	30	7,018	-35.7	-44.0	29	17.0
350	30	7,938	-41.5	-46.6	29	18.5
300	30	8,967	-47.3		29	20.6
250	30	10,167	-49.6		29	21.0
200	30	11,625	-49.9		29	19.6
175	30	12,498	-50.2		29	18.3
150	30	13,503	-51.0		29	15.3
125	30	14,688	-51.9		29	13.4
100	30	16,129	-53.6		29	10.8
80	30	17,557	-55.5		29	6.7
70	30	18,409	-55.7		29	4.8
60	30	19,392	-55.4		31	1.7
50	30	20,555	-55.1		34	1.1
40	29	21,980	-54.7		06	1.5
30	28	23,819	-54.1		09	3.6
25	25	24,988	-53.4		09	4.2
20	23	26,430	-51.8		09	5.5
15	19	28,296	-49.5		10	2.6
10	9	31,037	-44.4			

* QUILLAYUTE, WA
1010 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	30	58	2.9	1.3	02	.4
1000	29	147	3.5	2.1	34	.7
950	30	555	2.2	-.8	27	1.9
900	30	990	-.2	-3.9	27	2.3
850	30	1,445	-2.9	-7.9	25	2.3
800	30	1,924	-5.1	-14.1	25	2.3
750	30	2,429	-7.6	-17.6	26	2.8
700	30	2,963	-10.7	-20.2	27	2.8
650	30	3,530	-13.9	-24.7	28	3.2
600	30	4,133	-17.5	-28.9	28	3.5
550	30	4,779	-22.0	-32.7	29	3.5
500	30	5,474	-26.8	-38.2	29	[illegible]
450	30	6,226	[illegible]	-40.8	30	[illegible]
400	30	7,048	-38.1	-45.7	31	5.0
350	30	[illegible]	-44.2	-51.4	31	6.9
300	30	8,974	-50.6		32	9.2
250	30	10,149	[illegible]		32	11.2
200	29	11,575	-55.3		32	9.2
175	29	12,435	-53.8		32	8.3
150	28	13,428	-52.9		31	5.6
125	27	14,600	-53.7		31	4.4
100	26	[illegible]	-54.4		30	3.0
80	26	17,463	-55.1		28	1.5
70	26	18,316	-55.6		28	.7
60	26	19,298	-55.9		30	.7
50	24	20,456	-55.8		09	.8
40	23	21,882	[illegible]		09	1.7
30	22	23,717	-55.3		09	2.5
25	21	24,877	-54.9		09	3.8
20	18	26,316	[illegible]		09	4.7
15	18	28,165	-53.0		08	4.2
10	13	30,782	-49.9		07	5.6
7	7	33,114	-46.3			
5	5	35,400	-39.5			

RAPID CITY, SD
901 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	29	966	.5	-1.6	36	1.4
900	8	1,015	-1.5	-4.3	36	[illegible]
850	29	1,433	.7	-4.2	30	2.7
800	29	1,919	-.4	-7.5	28	3.4
750	29	2,434	-2.9	-11.0	26	4.6
700	29	2,977	-6.1	-15.7	26	6.1
650	29	3,554	-9.8	-19.6	26	7.0
600	29	4,166	-14.1	-23.7	26	7.5
550	29	4,821	-18.7	-28.5	26	8.4
500	29	5,524	-24.0	-34.1	26	9.8
450	29	6,284	-29.5	-39.5	25	11.8
400	29	7,114	-35.9	-44.7	25	14.8
350	29	8,032	-42.6	-50.0	25	17.3
300	29	9,055	-46.9		26	19.2
250	29	10,239	-53.6		25	20.4
200	29	11,667	-55.2		25	20.3
175	29	12,521	-54.7		25	19.5
150	28	13,509	-53.7		25	18.3
125	28	14,681	-54.1		26	14.9
100	28	16,106	-55.9		26	11.6
80	28	17,522	-57.4		26	9.0
70	28	18,366	-56.9		26	6.6
60	28	19,342	-57.2		26	3.9
50	28	20,495	-56.9		25	1.8
40	28	21,912	-55.7		30	.3
30	28	23,748	-54.9		06	2.3
25	25	24,923	-53.9		06	3.3
20	24	26,362	-52.4		07	3.3
15	21	28,232	-50.0		07	2.3
10	10	30,949	-44.8			

ST CLOUD, MN
981 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	30	316	-.6	-3.1	09	1.9
950	30	548	.2	-3.4	11	3.9
900	30	1,001	-1.2	-6.6	14	4.0
850	30	1,456	-1.6	-8.1	18	2.7
800	30	1,939	-2.9	-10.2	23	1.9
750	30	2,448	-5.0	-13.2	27	2.8
700	30	2,988	-7.8	-16.7	27	3.8
650	30	3,561	-10.9	-19.7	27	5.3
600	30	4,173	-14.3	-24.5	28	6.7
550	30	4,827	-18.8	[illegible]	28	8.0
500	30	5,531	-23.4	-33.9	28	9.3
450	30	6,293	-28.7	-38.2	27	11.1
400	30	7,126	-35.0	-42.1	27	13.1
350	30	8,046	-42.1	-46.1	27	15.4
300	30	9,070	-49.3		27	17.7
250	30	10,250	-54.6		27	21.5
200	30	11,673	-55.7		26	22.6
175	30	12,524	-55.2		27	19.9
150	30	13,511	-54.5		27	17.4
125	30	14,679	-54.7		27	14.6
100	30	16,103	-55.7		27	12.2
80	30	17,522	-56.8		27	8.6
70	30	18,369	-56.6		28	7.1
60	30	19,347	-56.7		29	4.1
50	29	20,504	-56.2		30	2.0
40	27	21,924	-55.7		01	1.3
30	26	23,764	-54.4		07	2.9
25	26	24,934	-54.0		07	3.4
20	24	26,366	-52.6		08	4.0
15	21	28,233	-50.7		08	2.2
10	13	30,905	-45.9		03	1.4

* ST PAUL ISLAND, AK
1013 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	30	10	-3.1	-4.1	32	.6
1000	28	125	-3.1	-5.6	24	1.3
950	30	516	-5.7	-7.5	24	2.6
900	30	938	-7.9	-10.9	25	4.2
850	30	1,382	-9.0	-15.3	25	5.2
800	30	1,850	-10.3	-20.0	26	5.8
750	30	2,345	-12.4	-22.1	25	6.1
700	30	2,870	-15.0	-25.6	25	6.5
650	30	3,427	-17.8	-27.8	25	7.1
600	30	4,022	-21.3	-31.6	25	7.7
550	30	4,659	-25.1	-35.7	25	9.1
500	30	5,346	-29.4	-40.5	25	10.0
450	30	6,091	-34.4	-44.6	25	10.7
400	30	6,905	-39.9	-47.9	25	11.5
350	30	7,808	-45.8		24	13.0
300	30	8,818	-51.9		24	16.6
250	29	9,997	-52.6		25	17.3
200	29	11,445	-50.7		25	13.7
175	29	12,316	-50.1		24	12.9
150	29	13,324	-50.0		24	10.8
125	29	14,516	-50.0		23	9.1
100	29	15,975	-50.0		22	7.8
80	29	17,432	-50.7		21	6.3
70	29	18,301	-51.2		21	4.7
60	27	19,291	-51.6		20	3.9
50	27	20,473	-52.0		18	3.3
40	26	21,918	-52.3		16	2.7
30	22	23,797	-52.4		13	3.3
25	22	24,976	-52.6		12	3.8
20	20	26,415	-52.5		11	4.0
15	16	28,280	-51.7		11	3.2
10	10	30,876	-50.8			

SALEM, IL
994 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	15	174	8.9	6.2	17	1.2
1000	5	195	9.7	6.0		
950	15	554	11.0	4.9	24	5.3
900	15	1,005	9.9	2.1	26	9.0
850	15	1,478	7.2	-1.2	27	8.4
800	15	1,974	4.3	-4.3	27	9.1
750	15	2,497	1.4	-7.6	27	10.7
700	15	3,050	-1.6	-12.0	27	12.3
650	15	3,637	-4.8	-18.4	27	14.8
600	15	4,263	-8.5	-22.2	26	17.8
550	15	4,933	-12.4	-26.4	26	20.4
500	15	5,655	-17.0	-30.5	26	23.5
450	13	6,429	-22.0	-35.1	26	28.0
400	13	7,286	-27.8	-40.6	26	30.9
350	12	8,248	-34.9	-46.5	26	30.9
300	12	9,305	-41.8		26	33.3
250	12	10,520	-49.8		26	37.6
200	12	11,955	-56.6			
175	12	12,799	-58.2			
150	11	13,762	-57.9			
125	11	14,905	-60.3			
100	11	16,288	-62.4			
80	11	17,663	-62.9			
70	11	18,488	-61.8			
60	10	19,442	-60.0			
50	9	20,588	-59.2			
40	9	21,995	-57.1			
30	9	23,828	-53.8			
25	9	25,005	-52.0			
20	8	26,443	-50.8			
15	7	28,352	-46.3			

RAWINSONDE DATA

Average monthly values

SALEM, OR — [illegible] MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.s.)
SFC	30	61	3.6	1.7	19	1.7
1000	28	152	5.5	2.1	21	1.0
950	30	563	3.4	.0	27	1.6
900	30	[illegible]	.9	-2.9	27	[illegible]
850	30	1,458	-1.7	-7.4	26	2.9
800	30	1,938	-4.4	-10.9	26	3.6
750	30	2,444	-7.1	-15.5	27	3.8
700	30	2,978	-10.4	-20.7	29	[illegible]
650	30	3,545	-13.8	-24.8	29	4.5
600	30	4,149	-17.5	[illegible]	30	4.7
550	30	4,796	-21.4	-33.2	31	5.3
500	30	[illegible]	-26.3	-38.3	32	5.8
450	30	6,245	-31.9	-42.0	32	5.9
400	30	7,067	-37.9	-48.0	32	6.7
350	29	7,976	-44.2		32	[illegible]
300	29	8,993	[illegible]		32	12.5
250	29	[illegible]	-54.0		32	13.3
200	29	[illegible]	-54.3		32	10.1
175	29	12,461	-53.4		30	8.9
150	29	13,455	-53.0		30	[illegible]
125	29	14,630	-53.4		29	7.3
100	29	[illegible]	-54.6		28	4.6
80	29	[illegible]	-55.1		28	3.2
70	29	18,343	-55.4		27	[illegible]
60	29	[illegible]	-55.5		25	1.2
50	29	20,488	-55.6		19	.8
40	29	21,912	-55.0		12	.8
30	28	23,753	-54.6		08	2.2
25	25	[illegible]	-54.8		08	3.7
20	21	26,350	-53.5		08	4.8
15	18	28,204	-51.6		08	4.2
10	12	30,862	-47.0			

SALT LAKE CITY, UT — 867 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.s.)
SFC	30	1,288	3.4	[illegible]	16	1.9
1000						
950						
900						
850	30	1,449	3.2	-5.2	18	[illegible]
800	30	1,938	.3	-8.1	19	3.8
750	30	2,453	-3.3	-10.7	21	4.5
700	30	2,994	-7.6	-13.5	23	5.2
650	30	3,567	-11.9	-17.0	24	6.4
600	30	4,174	-16.1	-22.8	25	7.8
550	30	4,824	-20.3	-28.7	24	9.2
500	30	5,523	-25.2	-33.1	24	10.4
450	30	6,281	-30.4	-38.3	24	12.0
400	30	7,108	-36.3	-42.8	24	13.8
350	30	8,024	-42.7	-46.0	24	16.3
300	30	9,046	-50.0		24	18.6
250	30	10,224	-54.3		24	21.0
200	29	[illegible]	-54.3		25	19.4
175	29	12,513	-53.2		25	17.9
150	29	13,505	-53.7		25	15.2
125	29	14,673	-55.2		25	13.9
100	29	16,095	-56.0		24	11.3
80	29	17,507	-58.1		24	8.5
70	28	18,346	-58.2		25	7.6
60	28	19,317	-58.4		25	4.5
50	28	20,464	-58.3		24	1.9
40	26	21,872	-57.6		20	.9
30	25	23,695	-55.6		06	1.3
25	24	24,861	-54.7		05	2.3
20	24	26,294	-53.3		05	2.8
15	21	28,175	-49.6		01	1.5
10	16	30,856	-44.7		25	3.0

SAN DIEGO, CA — [illegible] MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.s.)
SFC	30	124	10.2	[illegible]	19	.4
1000	[illegible]	142	10.5	[illegible]	24	.2
950	[illegible]	557	[illegible]	[illegible]	27	[illegible]
900	[illegible]	1,002	6.0	[illegible]	28	2.6
850	[illegible]	1,468	4.0	[illegible]	28	3.8
800	30	1,959	1.7	-10.6	26	[illegible]
750	30	2,478	-.1	-16.2	27	6.7
700	30	3,028	-2.2	-20.7	27	9.2
650	30	3,613	-5.4	-23.6	27	11.0
600	[illegible]	4,236	-9.2	-25.9	27	13.6
550	[illegible]	4,904	-13.2	-30.1	27	16.2
500	30	5,623	-18.0	-35.1	27	19.0
450	29	[illegible]	-23.4	-39.5	26	21.0
400	28	[illegible]	-29.4	-44.5	27	24.3
350	28	[illegible]	-36.1	-49.8	27	27.3
300	28	[illegible]	-43.8		26	30.4
250	28	10,452	-51.2		26	33.2
200	28	[illegible]	-56.8		26	[illegible]
175	28	[illegible]	-57.6		26	38.0
150	29	13,698	-58.2		26	35.1
125	28	14,842	-59.5		[illegible]	31.1
100	28	16,233	-61.5		25	24.4
80	27	17,617	-62.2		25	17.6
70	27	18,443	-61.9		25	12.8
60	26	[illegible]	[illegible]		24	7.8
50	24	20,541	-60.7		24	3.5
40	23	21,944	-57.5		28	2.5
30	23	[illegible]	[illegible]		28	2.1
25	23	24,937	-54.0		33	1.7
20	22	25,377	-52.2		32	1.2
15	22	28,254	-48.6		28	2.3
10	13	30,951	-43.4			

SAN JUAN, P. R. — [illegible] MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.s.)
SFC	30	[illegible]	23.2	20.4	[illegible]	2.6
1000	30	149	23.1	18.6	10	[illegible]
950	[illegible]	596	20.0	16.0	10	6.8
900	30	[illegible]	16.7	[illegible]	[illegible]	6.8
850	30	1,545	[illegible]	8.3	10	[illegible]
800	30	2,054	11.5	1.7	10	4.8
750	30	[illegible]	10.8	-6.6	[illegible]	4.2
700	30	3,166	8.7	-12.5	10	3.7
650	30	3,775	5.7	[illegible]	[illegible]	2.5
600	[illegible]	4,425	2.0	-19.1	08	1.8
550	30	5,122	-2.4	[illegible]	[illegible]	1.0
500	30	5,871	-7.3	-26.9	01	1.3
450	[illegible]	6,683	[illegible]	[illegible]	[illegible]	1.9
400	30	7,570	-19.2	-36.1	32	4.2
350	30	8,552	-26.5	[illegible]	[illegible]	7.7
300	30	9,645	-34.6	-49.2	30	12.3
250	30	10,894	-43.9		29	16.1
200	[illegible]	12,356	-54.9		28	[illegible]
175	30	13,199	-60.6		28	19.9
150	30	14,145	-66.4		29	18.3
125	30	15,236	-71.3		[illegible]	[illegible]
100	30	16,542	-74.9		31	10.5
80	30	17,834	-75.3		33	[illegible]
70	30	18,613	-72.1		32	2.8
60	30	[illegible]	-66.0		[illegible]	1.4
50	29	[illegible]	-60.7		[illegible]	4.5
40	29	22,054	-58.1		10	[illegible]
30	29	23,878	-54.9		[illegible]	10.1
25	27	[illegible]	-51.7		[illegible]	10.0
20	26	26,517	-46.7		11	7.2
15	23	28,440	-42.8		11	4.7
10	12	31,187	-39.3		11	1.1

SAULT STE MARIE, [illegible] — [illegible] MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.s.)
SFC	30	221	-3.4	-8.5	[illegible]	1.2
1000	[illegible]	[illegible]	-4.4	[illegible]	[illegible]	[illegible]
950	[illegible]	[illegible]	-1.9	[illegible]	01	3.2
900	30	989	[illegible]	-11.8	36	4.2
850	30	1,441	[illegible]	[illegible]	[illegible]	[illegible]
800	[illegible]	[illegible]	-6.1	-17.1	34	6.1
750	30	2,421	[illegible]	-18.9	33	7.3
700	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8.3
650	30	3,524	-12.7	-24.3	32	[illegible]
600	30	4,130	[illegible]	[illegible]	[illegible]	11.1
550	30	4,781	-19.8	[illegible]	[illegible]	13.4
500	[illegible]	[illegible]	-24.5	[illegible]	[illegible]	14.8
450	30	6,242	[illegible]	[illegible]	[illegible]	16.6
400	[illegible]	[illegible]	-35.7	[illegible]	[illegible]	[illegible]
350	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18.6
300	30	9,015	-48.6		29	21.5
250	30	10,201	[illegible]		[illegible]	[illegible]
200	[illegible]	[illegible]	-53.6		28	25.0
175	[illegible]	[illegible]	[illegible]		29	20.9
150	[illegible]	[illegible]	-52.4		[illegible]	16.3
125	30	14,677	-52.7		28	14.3
100	[illegible]	[illegible]	-53.8		28	10.8
80	[illegible]	[illegible]	-55.1		29	8.1
70	29	18,394	-55.3		[illegible]	[illegible]
60	[illegible]	[illegible]	-55.3		29	4.0
50	29	[illegible]	-55.0		31	2.1
40	29	21,970	-54.5		01	1.6
30	[illegible]	[illegible]	-54.6		08	[illegible]
25	28	[illegible]	-53.1		08	4.4
20	[illegible]	[illegible]	[illegible]		09	4.6
15	27	28,296	-50.3		[illegible]	4.1
10	10	[illegible]	-45.0			

SHREVEPORT, LA — 1007 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.s.)
SFC	30	79	14.0	10.7	14	1.2
1000	26	146	14.2	9.2	13	1.8
950	30	569	14.3	6.9	17	5.4
900	30	1,026	13.7	2.8	20	6.5
850	30	1,507	12.7	-1.4	23	[illegible]
800	30	2,014	10.3	-3.7	25	7.7
750	30	2,549	7.8	-7.4	25	[illegible]
700	30	3,115	4.9	-9.2	26	11.2
650	30	3,715	1.1	-13.7	26	13.2
600	30	4,354	-2.8	-17.9	26	17.0
550	30	5,037	-7.7	-21.0	26	20.4
500	30	5,772	-13.0	-25.8	26	22.2
450	29	6,568	-18.1	-31.1	26	25.3
400	29	7,437	-24.0	-36.1	26	[illegible]
350	29	8,402	-30.6	-41.3	26	32.1
300	29	9,476	-38.7	-47.7	26	38.4
250	29	10,705	-47.7		26	43.5
200	29	12,146	-57.6		26	45.6
175	29	12,982	-61.0		27	43.5
150	29	13,933	-63.5		27	36.8
125	29	15,047	-65.4		27	31.7
100	29	16,397	-67.8		27	24.5
80	29	17,730	-69.4		27	15.9
70	29	18,530	-67.7		27	10.8
60	28	19,463	-65.8		27	6.6
50	27	20,579	-61.9		28	4.5
40	24	21,963	-58.7		29	3.1
30	24	23,783	-55.7		31	3.4
25	24	24,951	-53.4		29	3.2
20	24	26,397	-50.3		28	3.6
15	24	28,293	-46.4		27	4.1
10	18	30,991	-40.8		26	9.4

SPOKANE, WA — 929 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.s.)
SFC	30	720	1.5	-2.7	18	1.6
1000						
950						
900	30	975	2.9	-4.2	21	2.0
850	30	1,437	.9	-7.5	23	1.3
800	30	1,921	-2.6	-9.8	23	[illegible]
750	30	2,430	-6.1	[illegible]	25	1.5
700	30	2,966	-9.8	-16.1	25	2.5
650	30	3,534	-13.0	-21.9	26	2.5
600	30	4,141	-16.6	-26.4	27	2.7
550	30	4,789	-20.8	-29.9	26	2.7
500	30	5,447	-25.8	-35.5	24	3.1
450	30	6,242	-31.2	-39.7	23	3.9
400	30	7,066	-37.6	-44.2	21	4.8
350	30	7,977	-44.3		19	4.7
300	30	8,992	-51.0		20	3.5
250	30	10,165	-55.4		21	3.3
200	30	11,591	-53.5		26	4.3
175	30	12,453	-52.3		26	4.3
150	30	13,452	-52.0		25	[illegible]
125	30	14,632	-52.4		26	4.2
100	30	16,072	-53.3		25	2.8
80	30	17,506	-54.3		24	2.3
70	30	18,361	-55.0		25	2.3
60	30	19,346	-55.0		23	1.3
50	29	20,513	-55.0		19	.4
40	29	21,940	-54.9		10	[illegible]
30	29	23,782	-54.3		08	2.5
25	29	24,951	-54.1		08	3.1
20	25	26,387	-53.1		08	3.3
15	24	[illegible]	-51.4		07	3.4
10	15	30,927	-46.8		36	[illegible]

TAMPA, FL — [illegible] MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.s.)
SFC	30	8	18.2	[illegible]	11	1.4
1000	30	154	[illegible]	14.1	13	2.3
950	30	595	18.0	10.0	18	3.0
900	30	1,057	[illegible]	5.0	22	3.7
850	30	1,541	14.1	.4	24	4.5
800	30	2,050	11.9	[illegible]	25	4.7
750	30	[illegible]	9.8	-7.8	26	[illegible]
700	30	3,158	[illegible]	-10.9	27	7.2
650	30	[illegible]	3.3	-13.7	28	9.6
600	30	[illegible]	-.4	-10.6	28	12.5
550	30	5,098	-4.8	-19.4	29	14.4
500	30	5,840	-9.7	[illegible]	29	16.7
450	30	6,646	-14.9	-30.0	29	19.2
400	30	7,527	-21.1	-35.1	28	22.1
350	30	[illegible]	-28.2	-41.2	29	24.4
300	30	9,586	-36.6	-48.5	29	27.0
250	30	10,822	-46.5		29	30.3
200	30	12,268	-57.2		29	33.1
175	30	13,103	-62.0		29	34.3
150	30	14,046	[illegible]		29	30.9
125	30	15,144	-69.0		29	24.9
100	30	16,467	-72.2		29	19.8
80	30	17,774	-73.5		29	11.8
70	30	18,560	-71.2		29	8.4
60	30	19,480	-67.4		30	5.5
50	30	20,592	-62.3		32	2.8
40	27	21,979	-58.1		31	3.3
30	25	23,808	-54.2		33	.3
25	24	24,979	-51.9		27	1.9
20	21	26,434	-48.8		27	.8
15	20	[illegible]	-45.2		25	2.8
10	11	[illegible]	-38.8		25	5.5

TOPEKA, KS — 983 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.s.)
SFC	30	268	7.7	4.3	11	[illegible]
1000						
950	30	547	8.4	2.7	17	3.0
900	30	994	[illegible]	-.4	[illegible]	5.7
850	30	1,465	6.6	-2.7	23	8.1
800	30	1,960	4.1	-5.5	25	9.3
750	30	2,483	1.5	-8.9	25	10.3
700	30	3,035	-1.7	-13.8	26	11.8
650	30	3,622	-5.4	-17.5	26	13.6
600	30	4,245	-9.3	-21.6	26	15.1
550	30	4,910	-14.6	-26.0	25	17.0
500	30	5,625	-19.5	-30.9	26	18.4
450	30	6,400	-24.9	-37.6	26	21.1
400	30	7,245	-31.0	-44.4	26	25.1
350	30	8,182	-37.8	-48.2	26	28.7
300	30	9,225	-44.8		26	34.3
250	30	10,427	-51.3		26	37.9
200	30	11,857	-56.9		26	38.3
175	30	12,702	-57.6		26	38.6
150	30	13,677	-57.1		27	34.2
125	30	14,826	-58.9		27	27.1
100	29	16,226	[illegible]		27	19.0
80	29	17,614	-61.4		27	12.1
70	29	18,442	-61.2		27	8.1
60	29	19,401	-60.5		27	3.8
50	29	20,541	-58.7		27	1.7
40	29	21,950	-57.1		04	.6
30	29	23,779	-54.9		06	1.9
25	28	24,951	-53.0		06	[illegible]
20	27	26,403	-51.0		06	2.0
15	23	28,282	-47.3		30	1.4
10	7	31,058	-41.2			

TRUK, CAROLINE IS. — 1010 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.s.)
SFC	30	2	28.6	23.8	05	4.9
1000	30	94	27.5	22.6	06	6.1
950	30	548	23.8	20.4	07	[illegible]
900	30	1,020	20.8	16.2	08	9.4
850	30	1,513	18.0	13.0	08	7.8
800	30	2,031	16.0	7.2	09	7.2
750	30	2,578	13.7	2.1	09	[illegible]
700	30	3,157	10.9	-1.7	[illegible]	6.1
650	30	3,772	[illegible]	-5.8	09	[illegible]
600	30	4,428	[illegible]	-8.8	09	5.6
550	30	5,130	.0	-13.3	08	6.1
500	30	5,887	-4.5	-16.8	08	[illegible]
450	30	6,710	-8.9	-23.3	08	[illegible]
400	30	7,614	-14.2	[illegible]	[illegible]	6.0
350	30	8,617	-20.8	-35.5	[illegible]	[illegible]
300	30	9,734	-29.6	-43.3	09	2.6
250	30	11,008	-39.9	-50.1	16	2.3
200	30	12,492	-52.1		19	4.3
175	30	13,344	[illegible]		19	3.9
150	30	14,293	-66.6		21	2.3
125	30	[illegible]	-74.8		31	.7
100	30	16,645	-81.3		[illegible]	[illegible]
80	30	17,892	-81.4		[illegible]	[illegible]
70	29	18,657	-74.4		[illegible]	5.8
60	29	19,568	[illegible]		[illegible]	9.1
50	29	20,670	-64.7		[illegible]	14.9
40	29	22,051	-59.3		09	21.5
30	28	23,884	-51.7		09	10.6
25	27	[illegible]	-48.1		10	1.7
20	26	26,556	-45.6		26	3.6
15	22	[illegible]	-42.7		26	5.2
10	10	31,265	-38.2			

TUCSON, AZ — 923 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.s.)
SFC	30	789	8.2	-3.4	[illegible]	1.8
1000						
950						
900	30	995	12.0	-5.3	18	[illegible]
850	30	1,471	9.3	-7.5	22	[illegible]
800	30	1,970	5.6	-10.0	22	5.3
750	30	2,495	2.1	-12.7	23	8.4
700	30	[illegible]	-1.0	-18.2	23	[illegible]
650	30	3,636	-4.0	-21.8	24	[illegible]
600	30	[illegible]	-7.6	-24.2	25	[illegible]
550	30	4,935	-11.8	-28.4	25	18.2
500	30	5,658	-16.8	-33.2	25	22.1
450	30	[illegible]	-22.4	[illegible]	25	25.5
400	30	[illegible]	-28.0	-42.8	25	[illegible]
350	30	[illegible]	-34.6	-46.6	25	[illegible]
300	30	[illegible]	-42.2	-49.3	25	39.1
250	30	[illegible]	-49.8		25	[illegible]
200	30	[illegible]	-55.8		25	[illegible]
175	30	12,798	-57.0		25	[illegible]
150	30	[illegible]	-58.3		25	[illegible]
125	30	[illegible]	-60.9		25	[illegible]
100	30	[illegible]	-64.0		25	[illegible]
80	30	[illegible]	-65.2		24	[illegible]
70	28	[illegible]	-64.7		24	[illegible]
60	27	[illegible]	-63.4		25	[illegible]
50	27	[illegible]	-61.4		27	[illegible]
40	26	[illegible]	-58.3		27	[illegible]
30	25	[illegible]	-56.3		29	[illegible]
25	26	[illegible]	-54.6		31	[illegible]
20	24	[illegible]	-51.9		[illegible]	[illegible]
15	22	28,239	-48.1		[illegible]	[illegible]
10	16	30,934	-43.0		[illegible]	[illegible]
7	5	33,278	-38.4			

VANDENBERG AFB, CA — 1006 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.s.)
SFC	28	[illegible]	7.5	5.6	33	.5
1000	[illegible]	146	7.8	[illegible]	34	[illegible]
950	[illegible]	568	6.8	2.0	34	3.8
900	[illegible]	1,011	5.5	-2.6	33	[illegible]
850	[illegible]	1,477	3.0	-6.7	32	4.1
800	28	[illegible]	.7	-10.9	[illegible]	4.3
750	28	2,482	-1.7	-13.9	[illegible]	5.7
700	28	[illegible]	-4.7	-19.0	25	7.7
650	28	3,607	[illegible]	-22.1	28	9.2
600	[illegible]	[illegible]	-12.0	[illegible]	28	11.7
550	28	4,885	-16.1	-30.0	27	14.9
500	28	[illegible]	-20.6	-35.4	27	17.5
450	28	6,367	-26.0	-38.7	[illegible]	19.8
400	28	[illegible]	-31.9	-44.0	27	23.2
350	28	8,144	-38.1	-48.8	[illegible]	26.7
300	28	9,186	-45.4		27	[illegible]
250	[illegible]	[illegible]	-52.6		26	31.2
200	[illegible]	[illegible]	-57.0		[illegible]	30.5
175	26	12,654	-56.3		26	30.3
150	26	13,634	-56.3		26	28.6
125	[illegible]	[illegible]	-58.5		26	25.3
100	26	16,183	-59.8		25	20.0
80	26	17,573	-61.0		25	13.6
70	26	18,404	-60.5		25	9.1
60	26	19,366	-60.0		24	6.7
50	26	20,506	-59.3		24	[illegible]
40	25	21,908	-57.9		26	2.3
30	24	23,733	-56.3		[illegible]	1.8
25	[illegible]	[illegible]	-54.8		27	1.6
20	24	26,329	-52.5		[illegible]	2.1
15	24	28,201	-48.9		26	3.0
10	[illegible]	30,904	-43.2		27	6.0
7	15	[illegible]	-38.3			

VICTORIA, TX — [illegible] MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.s.)
SFC	30	33	18.1	15.5	[illegible]	2.1
1000	29	115	18.7	15.3	12	3.1
950	30	[illegible]	17.7	12.6	[illegible]	6.9
900	30	1,015	16.5	[illegible]	17	7.7
850	30	1,501	15.4	2.5	19	7.8
800	30	2,014	13.7	-1.3	20	7.0
750	30	2,555	11.8	-3.9	22	7.9
700	30	3,130	8.9	-8.6	23	9.2
650	30	3,739	5.1	-11.3	25	11.2
600	30	4,387	.4	-15.0	[illegible]	14.1
550	30	[illegible]	-5.2	-18.8	25	17.2
500	30	5,818	-11.0	-23.2	[illegible]	20.7
450	30	6,619	-16.2	-29.2	26	23.9
400	[illegible]	7,495	-22.1	-34.1	26	27.2
350	30	8,468	-28.7	-39.4	26	32.1
300	30	9,550	-37.1	-47.7	26	[illegible]
250	30	10,785	-46.7		26	38.6
200	30	12,229	-57.7		26	42.1
175	30	13,062	-62.6		26	41.1
150	[illegible]	14,003	-66.3		26	38.2
125	[illegible]	15,101	-68.8		26	32.8
100	30	16,426	-72.2		[illegible]	21.6
80	[illegible]	17,735	-72.5		[illegible]	13.3
70	[illegible]	18,523	-70.8		[illegible]	8.0
60	30	19,445	-66.9		[illegible]	3.7
50	[illegible]	20,560	-62.1		[illegible]	[illegible]
40	30	21,952	-58.6		[illegible]	2.1
30	30	23,776	-55.1		[illegible]	2.2
25	[illegible]	24,948	-52.5		[illegible]	1.1
20	29	26,398	-49.3		[illegible]	3.3
15	24	28,294	-45.3		[illegible]	4.9
10	12	[illegible]	-38.3			

WAKE IS., PACIFIC AREA — [illegible] MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.s.)
SFC	30	5	24.7	[illegible]	08	6.4
1000	30	145	24.2	19.3	08	7.3
950	[illegible]	592	20.2	17.2	09	8.1
900	30	[illegible]	17.1	13.2	09	7.8
850	30	1,544	14.2	9.0	10	7.1
800	30	2,055	[illegible]	[illegible]	09	6.3
750	30	2,595	10.9	-5.6	09	5.7
700	30	3,168	8.3	-8.4	08	5.2
650	30	3,777	5.6	-13.8	06	4.5
600	30	4,427	2.1	-18.4	05	3.6
550	30	5,124	-1.9	-22.1	04	1.9
500	30	5,875	-6.7	-26.4	[illegible]	2.1
450	30	6,689	-12.3	-31.0	33	3.1
400	30	7,577	-19.0	-36.7	[illegible]	5.3
350	30	8,560	-26.3	-41.7	30	8.1
300	30	9,653	[illegible]	[illegible]	30	11.9
250	30	[illegible]	[illegible]		[illegible]	17.9
200	30	[illegible]	[illegible]		[illegible]	24.2
175	30	[illegible]	[illegible]		[illegible]	25.0
150	30	[illegible]	[illegible]		[illegible]	23.1
125	30	15,238	-73.3		[illegible]	18.9
100	30	[illegible]	-77.9		28	[illegible]
80	29	17,801	-77.7		30	3.1
70	29	18,573	-73.9		[illegible]	.6
60	29	19,486	[illegible]		09	1.1
50	29	20,594	-63.5		[illegible]	[illegible]
40	29	21,975	-60.2		[illegible]	3.7
30	28	23,788	-55.7		07	4.7
25	26	24,957	-53.1		08	4.1
20	[illegible]	26,409	-49.0		07	3.1
15	21	28,318	-44.4		02	2.2
10	17	[illegible]	-40.3		[illegible]	1.6
7	[illegible]	[illegible]	-37.1			

[illegible] ISLAND, [illegible] — 1016 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.s.)
SFC	29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1000	28	[illegible]	8.4	-.1	31	[illegible]
950	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6.4
900	29	999	4.1	-3.3	30	8.6
850	[illegible]	[illegible]	2.1	-6.3	30	10.8
800	[illegible]	[illegible]	.2	-7.8	30	12.8
750	29	2,465	-2.1	-10.9	29	[illegible]
700	29	[illegible]	-4.2	-15.1	29	[illegible]
650	29	3,593	-6.6	-17.8	29	19.4
600	29	4,215	[illegible]	-21.3	29	21.9
550	29	4,880	-14.4	-26.1	29	24.1
500	[illegible]	[illegible]	-19.1	-31.6	29	27.3
450	29	[illegible]	-24.2	[illegible]	[illegible]	[illegible]
400	29	7,222	-29.5	-42.8	29	35.2
350	29	8,160	-35.7	-47.4	29	[illegible]
300	29	9,220	-42.7	[illegible]	29	42.7
250	29	10,431	-49.8		29	[illegible]
200	29	11,872	-54.9		29	44.0
175	29	12,721	-56.9		29	41.3
150	29	13,696	-57.1		29	35.4
125	29	14,848	-58.0		29	28.1
100	[illegible]	[illegible]	-59.5		29	[illegible]
80	28	17,641	[illegible]		29	13.9
70	27	[illegible]	[illegible]		29	[illegible]
60	27	19,434	[illegible]		30	[illegible]
50	[illegible]	[illegible]	-58.7		[illegible]	2.7
40	[illegible]	[illegible]	[illegible]		[illegible]	1.4
30	[illegible]	[illegible]	-54.3		[illegible]	.5
25	23	24,995	-53.0		[illegible]	.6
20	23	26,441	-50.8		[illegible]	1.3
15	19	28,341	-47.7		[illegible]	2.1
10	9	[illegible]	[illegible]			

RAWINSONDE DATA

Average monthly values

APRIL 1975

WASHINGTON, DULLES INT. AP
[illegible] MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind	
					Direction	Speed (m.p.h.)
SFC	30	85	5.2	-.6	30	2.2
1000	27	151	6.5	-1.5	31	2.4
950	30	555	5.2	-2.6	30	4.9
900	30	995	3.1	-4.4	30	7.2
850	30	1,457	1.4	-5.8	30	10.3
800	30	1,944	-.6	-7.9	30	12.5
750	30	2,458	-2.7	-11.9	30	14.5
700	30	[illegible]	-4.9	[illegible]	30	14.7
650	30	3,554	-7.4	-18.2	30	[illegible]
600	30	[illegible]	-11.1	-23.5	29	19.3
550	30	4,866	[illegible]	-27.9	29	21.4
500	30	[illegible]	-19.6	-32.2	29	24.7
450	30	6,355	-24.6	-36.3	29	27.0
400	30	7,204	-30.0	-41.1	29	30.1
350	30	8,144	-36.7	-45.0	29	34.5
300	29	[illegible]	-43.8	-48.9	29	39.0
250	29	10,410	-50.4		29	42.6
200	29	11,849	-55.1		29	41.5
175	29	12,700	-56.0		29	34.4
150	29	13,680	-56.1		29	31.7
125	29	14,837	-57.2		29	27.3
100	29	16,243	-59.		29	18.1
80	29	17,641	-59.7		29	13.0
70	29	18,475	-59.9		29	9.2
60	29	19,439	-59.5		29	[illegible]
50	29	20,583	-58.3		31	3.7
40	28	21,943	-56.8		33	1.0
30	27	23,827	-54.7		30	1.6
25	27	24,998	-53.2		03	1.7
20	25	[illegible]	[illegible]		35	1.3
15	23	28,333	-47.7		24	[illegible]
10	13	31,070	[illegible]		29	6.1
7	6	33,599	[illegible]			

WAYCROSS, GA
[illegible] MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind	
					Direction	Speed (m.p.h.)
SFC	30	44	13.4	[illegible]	33	.8
1000	30	148	15.0	[illegible]	33	1.0
950	30	584	15.1	5.9	29	2.2
900	30	1,041	14.1	3.1	27	4.2
850	30	1,522	12.3	-.1	26	6.4
800	30	2,029	10.0	-3.8	27	8.5
750	30	2,563	7.3	-6.6	27	9.5
700	30	[illegible]	4.0	-9.3	28	11.4
650	30	[illegible]	.9	-12.8	28	13.2
600	30	4,366	-2.9	-17.9	28	16.1
550	30	[illegible]	-7.1	-21.7	28	18.7
500	30	5,786	-12.1	-25.8	28	19.3
450	30	6,585	-17.1	-29.5	28	23.1
400	30	7,458	-23.4	-35.7	28	26.6
350	30	8,425	-29.9	[illegible]	28	[illegible]
300	30	9,503	-38.0	-48.4	28	35.7
250	28	10,733	-47.6		29	39.3
200	27	12,169	-57.8		29	43.8
175	27	13,004	-61.4		29	[illegible]
150	27	13,954	-63.6		29	38.7
125	26	[illegible]	-66.1		29	30.7
100	26	16,411	-68.5		29	22.8
80	26	17,743	-69.7		28	14.9
70	26	18,543	-68.0		29	9.8
60	24	19,475	-65.5		30	5.0
50	24	[illegible]	-61.9		32	3.9
40	24	[illegible]	-57.6		31	[illegible]
30	23	23,824	-53.8		32	[illegible]
25	22	25,004	-52.0		27	[illegible]
20	17	26,451	-49.4		[illegible]	4.1
15	14	28,341	-45.5		[illegible]	5.4
10	6	31,085	-39.3			

WINNEMUCCA, NV
[illegible] MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind	
					Direction	Speed (m.p.h.)
SFC	30	1,312	-.2	-7.3	24	.4
1000						
950						
900						
850	30	1,453	1.3	-5.8	26	.9
800	30	1,934	-1.6	[illegible]	28	2.6
750	30	2,449	[illegible]	[illegible]	28	3.4
700	30	2,987	-9.3	[illegible]	27	4.0
650	30	3,556	-13.3	[illegible]	27	5.4
600	30	[illegible]	-17.1	[illegible]	26	6.8
550	30	4,808	-21.3	-28.0	27	7.2
500	30	5,505	[illegible]	-34.5	27	7.8
450	30	[illegible]	-31.1	[illegible]	26	[illegible]
400	30	7,085	-37.5	-43.5	27	9.4
350	29	7,993	-44.4		26	10.8
300	29	9,010	[illegible]		26	13.0
250	29	10,192	-53.6		27	13.5
200	29	11,625	-53.8		26	14.1
175	28	12,492	[illegible]		26	13.1
150	28	13,476	[illegible]		26	11.9
125	28	[illegible]	-53.8		26	11.5
100	27	[illegible]	-55.8		26	9.5
80	27	17,491	[illegible]		24	6.6
70	26	18,335	-57.3		24	5.6
60	26	[illegible]	-57.4		24	4.0
50	26	20,461	-57.4		24	2.2
40	25	[illegible]	[illegible]		23	.9
30	22	23,700	-55.9		07	1.5
25	21	24,864	-54.6		05	1.7
20	18	26,295	-52.9		05	2.1
15	14	28,164	-51.1		[illegible]	2.4
10	6	30,857	-44.6			

WINSLOW, AZ
848 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind	
					Direction	Speed (m.p.h.)
SFC	30	1,487	1.4	-4.9	20	2.4
1000						
950						
900						
850	8	1,509	2.5	-7.1		
800	30	1,959	[illegible]	-7.4	23	4.8
750	30	2,480	.3	-10.7	23	7.9
700	30	3,030	-3.2	-14.7	23	9.8
650	30	3,612	-6.4	-18.6	24	11.0
600	30	4,233	-10.5	-23.4	25	12.4
550	30	4,898	-14.9	-28.0	25	14.5
500	30	5,611	-20.1	-33.5	25	17.3
450	30	6,384	-25.7	-37.7	25	19.8
400	30	7,227	-31.8	-43.0	25	23.2
350	30	8,161	-38.1	-47.4	25	27.2
300	30	9,205	-44.4		25	32.6
250	30	10,410	-50.7		25	37.5
200	30	11,847	-55.0		25	37.3
175	30	12,700	-55.3		25	36.4
150	30	13,685	-55.7		25	32.7
125	30	14,839	-58.3		25	28.8
100	29	16,233	-60.5		25	22.0
80	28	17,623	-61.6		25	14.9
70	28	18,452	-61.1		25	11.2
60	28	19,409	-61.3		25	6.3
50	28	20,543	-60.4		25	3.8
40	27	21,940	-57.9		29	1.7
30	25	23,764	-55.6		32	[illegible]
25	22	24,934	-54.1		34	1.6
20	17	26,394	-51.1		35	1.8
15	11	28,317	-47.8		33	1.3
10	5	31,006	-42.0			

YAKUTAT, AK
1012 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind	
					Direction	Speed (m.p.h.)
SFC	30	12	-.3	-2.1	10	1.6
1000	27	119	2.0	-1.4	11	2.3
950	30	518	.1	-4.7	13	3.8
900	30	949	-2.5	-7.2	15	4.2
850	30	1,400	[illegible]	-9.3	16	4.1
800	30	1,875	-7.8	-12.4	18	3.5
750	30	2,374	-10.8	-14.9	19	3.8
700	30	2,902	-13.6	-17.6	20	4.4
650	30	3,462	-16.9	-21.9	[illegible]	4.3
600	30	4,059	-20.8	[illegible]	22	4.5
550	30	4,697	-25.1	-31.0	22	4.0
500	30	5,383	-29.6	-35.1	24	4.3
450	30	6,127	-34.6	-38.7	25	5.1
400	30	6,940	-40.3	-40.9	26	6.3
350	30	7,843	-45.8	-47.5	27	7.3
300	30	8,855	-50.8		27	9.5
250	30	10,037	-52.4		28	10.0
200	30	11,484	-51.1		27	8.6
175	29	12,357	-50.1		26	8.2
150	29	13,365	-49.8		26	6.8
125	29	14,558	-50.2		26	5.7
100	29	16,011	[illegible]		26	3.7
80	29	17,457	-52.0		25	3.0
70	29	18,322	-52.5		26	[illegible]
60	29	19,317	-53.0		26	.7
50	29	20,492	-53.2		[illegible]	.3
40	29	21,931	-53.1		[illegible]	.9
30	26	23,785	-52.9		04	2.3
25	24	24,958	-52.8		09	2.4
20	20	26,407	-52.1		04	3.3
15	12	28,272	-50.3		04	3.2
10	5	30,912	-48.3			

YAP, CAROLINE IS.
1009 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind	
					Direction	Speed (m.p.h.)
SFC	30	[illegible]	28.3	[illegible]	09	5.7
1000	30	[illegible]	26.9	22.7	08	6.4
950	30	543	23.7	20.6	08	9.7
900	30	[illegible]	20.5	16.2	09	10.2
850	30	[illegible]	17.6	[illegible]	08	9.7
800	30	[illegible]	15.6	6.9	[illegible]	8.4
750	30	[illegible]	13.3	1.8	09	7.2
700	30	[illegible]	10.4	-3.1	09	7.1
650	30	3,752	7.3	-7.0	09	6.9
600	30	[illegible]	3.7	-10.1	09	6.4
550	30	[illegible]	-.4	-14.2	09	5.9
500	30	[illegible]	-4.7	-18.8	09	[illegible]
450	30	[illegible]	-8.9	-22.9	09	5.2
400	30	7,599	-14.5	-29.0	09	4.0
350	30	[illegible]	-21.5	-35.3	[illegible]	[illegible]
300	30	[illegible]	[illegible]	-42.6	13	2.4
250	30	[illegible]	-40.4	-48.6	[illegible]	3.4
200	30	[illegible]	-52.9		14	3.4
175	30	[illegible]	-59.9		[illegible]	3.0
150	30	[illegible]	-67.7		23	3.5
125	30	15,330	-75.		[illegible]	[illegible]
100	30	16,608	[illegible]		[illegible]	3.5
80	30	17,856	-81.		[illegible]	6.3
70	29	18,620	-74.5		07	7.3
60	29	[illegible]	-68.6		06	9.5
50	29	20,638	-63.9		[illegible]	15.3
40	29	[illegible]	[illegible]		09	[illegible]
30	29	[illegible]	-52.5		09	[illegible]
25	27	[illegible]	-48.5		11	3.6
20	24	[illegible]	-45.8		24	.7
15	17	28,461	[illegible]		22	[illegible]
10	7	31,202	[illegible]			

YUCCA FLAT, NV
877 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind	
					Direction	Speed (m.p.h.)
SFC	30	[illegible]	2.5	-4.7	20	1.4
1000						
950						
900						
850	30	1,449	4.8	-7.1	26	.9
800	30	1,941	1.5	-9.3	23	1.9
750	30	2,457	[illegible]	-12.6	24	2.7
700	30	3,002	-5.9	-16.7	24	3.9
650	30	3,578	-9.6	-21.9	25	5.7
600	30	4,193	-13.2	-25.2	26	8.5
550	30	4,850	-17.5	-28.4	26	10.7
500	30	5,556	-22.0	-34.0	26	12.6
450	28	6,318	-28.4	-37.9	25	16.3
400	28	7,152	-34.5	-43.2	25	18.6
350	28	8,076	-40.8	[illegible]	25	[illegible]
300	28	9,108	-47.2		26	[illegible]
250	28	10,300	-52.3		26	24.7
200	27	11,730	-55.4		26	27.2
175	27	12,584	-54.3		26	25.2
150	27	13,573	-54.4		26	21.9
125	24	14,743	-55.4		26	18.6
100	24	16,158	-57.9		26	15.6
80	23	17,564	-59.3		25	[illegible]
70	23	18,400	-59.4		25	8.7
60	23	19,366	-59.1		25	6.7
50	23	20,507	-59.2		25	4.1
40	21	21,908	-58.0		27	[illegible]
30	[illegible]	23,733	-56.0		30	1.0
25	17	24,906	-55.0		30	1.1
20	14	26,337	-52.8		33	2.0
15	9	28,231	-50.1			
10	5	30,973	-44.7			

SOLAR RADIATION INTENSITIES

Tabulated in langleys per minute on a surface normal to the direction of the sun. [illegible]

Sun's zenith distance

[illegible]

[illegible]	[illegible] 78.7°	75.7°	70.7°	60.0°	*	[illegible] 60.0°	70.7°	75.7°	78.7°
	[illegible]	[illegible]	[illegible]	[illegible]	*	[illegible]	[illegible]	[illegible]	[illegible]
1	[illegible]	-	[illegible]	(1.20)	---	----	----	----	----
2	.86	[illegible]	[illegible]	1.26	1.43	1.22	1.05	[illegible]	[illegible]
[illegible]	(.88)	----	----	(1.28)	1.44	1.24	1.07	[illegible]	.83
4	[illegible]	.98	1.12	1.27	1.45	1.26	1.10	[illegible]	.85
[illegible]	[illegible]	.99	1.12	1.28	1.44	1.22	.96	[illegible]	.69
8	[illegible]	.99	----	----	---				--
[illegible]	[illegible]	-	-	----	----	1.12	.94	[illegible]	[illegible]
10	----	----	--			- -	----	----	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	----	----	----	- -	----
13	--	--	----	----	---	----	--	---	[illegible]
[illegible]	[illegible]	.76	----	1.14	----	----	----	- -	---
[illegible]	[illegible]	1.00	1.12	1.29	1.45	1.23	1.07	(.94)	--
[illegible]	[illegible]	.98	1.12	1.24	1.38	1.22	1.08	[illegible]	[illegible]
[illegible]	[illegible]			-	(1.38)	D(1.02)	D(.80)	[illegible]	[illegible]
18	---	---	---	- -	-	(1.22)	(1.03)	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	1.20	1.37	[illegible]	1.02	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	1.19	1.41	[illegible]	.98	[illegible]	[illegible]
21	--	---	---	---	1.40	-	---	---	--
23	[illegible]	[illegible]	1.00	1.20	1.39	1.15	.99	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	.90	1.05	1.34	1.14	.92	[illegible]	[illegible]
[illegible]	-	--	---	---	1.41	1.09	.91	[illegible]	[illegible]
[illegible]	-	-	.98	1.17	---	--	---	----	---
[illegible]	[illegible]	.78	.91	1.11	1.33	---	.85	[illegible]	[illegible]
[illegible]	[illegible]	.65	.80	---	---	----	.81	[illegible]	[illegible]
[illegible]	[illegible]	.83	.97	--	---	[illegible]	.91	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.98	[illegible]	[illegible]

[illegible]

[illegible]	[illegible] 78.7°	75.7°	70.7°	60.0°	*	[illegible] 60.0°	70.7°	75.7°	78.7°
	[illegible]	[illegible]	[illegible]	[illegible]	*	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	.55	.66	[illegible]	[illegible]	.97	----	----	----	----
11	.50	.60	[illegible]	[illegible]	[illegible]	.81	.65	.55	[illegible]
[illegible]	.49	.57	[illegible]	[illegible]				----	----
[illegible]	[illegible]	.62	[illegible]	[illegible]	.99	.84	.72	.62	.55
[illegible]	[illegible]	.53	[illegible]	[illegible]	.93	.76	.63	.52	.45
Aver- [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.97	.80	.67	.56	[illegible]

MADISON, WIS.

[illegible]

	[illegible]	[illegible]	[illegible]	[illegible]	*	[illegible]	2.81	[illegible]	[illegible]
[illegible]	[illegible] .80	[illegible] .91	[illegible]	M 1.17	M 1.35	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible] .80	[illegible] .92	[illegible]	M 1.21	S 1.31	----	----	---	----
5	[illegible]	[illegible] .80	[illegible] .95	S 1.10	S 1.30	----	----	---	----
6	[illegible]	[illegible] .76	[illegible] .93	[illegible] 1.09	----	----	---	---	---
[illegible]	[illegible]	.90	---	---	---	-	---	---	---
11	[illegible]	.82	[illegible]	M 1.14	[illegible] 1.36	---	---	----	---
12	[illegible]	.87	[illegible]	S 1.18	S 1.32		[illegible] .91	[illegible]	[illegible]
Aver- [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.82	[illegible]

MAUNA LOA OBSERVATORY, HAWAII

[illegible]

	[illegible]	2.69	2.01	1.34	*	[illegible]	[illegible]	2.69	[illegible]
[illegible]	-	--	--	- -	---	---	[illegible]	1.12	[illegible]
4	1.06	1.15	1.26	1.40	---	---	---	---	---
[illegible]	1.10	1.18	1.29	1.41	---	---	---	---	---
7	[illegible]	1.24	1.33	1.45	---	---	---	---	---
8	[illegible]	1.19	1.29	1.42	--	----	---	---	---
[illegible]	[illegible]	1.23	1.34	1.48	--	-	---	---	-
10	[illegible]	1.20	1.31	1.45	1.59	---	---	--	---
[illegible]	1.10	1.21	1.31	1.44	--	-	---	-	---
[illegible]	1.09	1.19	1.29	1.43	1.55	-	---	-	-
[illegible]	1.11	1.20	1.31	1.44	1.55	---	---	---	---
[illegible]	[illegible]	1.23	1.34	1.46	1.57	1.42	1.29	1.19	1.11
[illegible]	[illegible]	1.23	1.34	1.47	1.58	1.37	1.28	1.18	1.10
[illegible]	---			1.42					
[illegible]	1.10	1.19	1.28	1.41	1.56	1.38	[illegible]	1.15	1.10
[illegible]	1.10	1.18	1.27	1.40	---	1.39	[illegible]	1.21	1.08
Aver- [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SOLAR RADIATION INTENSITIES

Tabulated in langleys per minute on a surface normal to the direction of the sun. APRIL 1975

OMAHA, NEBR.

Date	Sun's zenith distance								
	A.M.				*	P.M.			
	78.7°	75.7°	70.7°	60.0°		60.0°	70.7°	75.7°	78.7°
	Air mass								
	4.78	3.82	2.87	1.91	*	1.91	2.87	3.82	4.78
[illegible]----	.82	.94	1.05	1.21	1.30	1.02	.62	.36	.39
4----	IH .57	MH .69	MH .85	MH1.06	1.25	.77	.38	.18	.12
[illegible]----	KM .51	KM .64	KM .80	KS1.00	1.19	----	----	----	----
11----	.66	.72	.82	----	----	----	----	----	----
12----	.63	.68	.92	1.07	----	----	----	----	----
16----	----	----	----	----	----	H .88	.72	.56	----
17----	----	----	----	H .98	H 1.14	----	----	----	----
20----	HM .58	----	----	----	----	----	----	----	----
21----	HI .50	----	----	HM .90	M 1.18	----	----	----	----
25----	----	.88	1.02	----	----	----	----	----	----
29----	.69	----	.96	----	----	----	----	.74	--
Aver- ages	.62	.76	.92	1.04	1.21	.89	.58	.50	.26

TUCSON, ARIZ.

Date	Sun's zenith distance								
	A.M.				*	P.M.			
	78.7°	75.7°	70.7°	60.0°		60.0°	70.7°	75.7°	78.7°
	Air mass								
	4.64	3.71	2.78	1.86	*	1.86	2.78	3.71	4.64
1----	.66	.82	[illegible]	1.17	1.42	----	----	----	----
2----	.90	1.00	1.11	1.28	1.44	1.26	1.10	.98	.89
3----	.91	1.02	1.13	1.30	1.48	1.23	1.05	.94	.84
4----	.92	1.03	1.15	1.29	1.49	1.33	1.15	1.01	.90
5----	.90	1.01	1.15	1.29	1.47	1.29	1.14	1.02	.91
6----	----	----	----	----	1.47	1.23	1.06	.92	.82
8----	----	----	----	1.20	----	1.24	----	----	.82
9----	.86	----	----	----	1.45	----	----	----	----
10----	----	----	----	----	----	1.20	1.03	.90	.81
11----	.74	.85	.99	1.19	1.45	1.28	1.12	1.02	.92
12----	----	.91	1.05	1.24	----	----	----	----	----
13----	----	----	.94	----	1.29	1.12	.93	.78	.70
14----	.85	.93	1.07	1.23	1.44	1.29	1.11	.99	.88
15----	.91	1.01	1.13	1.28	1.49	--	----	----	-
16----	.88	.98	1.10	1.27	1.47	1.25	1.09	----	----
17----	.86	.95	1.07	1.25	----	----	----	----	----
18----	.58	.70	.83	1.09	1.36	1.17	.98	.83	.72
19----	.86	.97	1.10	1.27	1.47	1.22	1.03	.90	.80
20----	.82	.92	1.05	1.20	1.47	1.23	1.07	.95	.85
21----	----	.95	----	1.24	1.44	----	----	---	----
22----	----	----	----	----	----	1.21	1.00	.89	.80
23----	.77	.88	.99	1.18	1.42	1.16	.97	.83	.72
24----	.60	.73	.84	1.06	1.32	1.05	----	----	----
25----	--	.79	----	---	1.37	1.17	1.01	.88	.77
26----	--	----	.94	1.10	1.31	1.11	.95	.82	.73
27----	.69	.81	.97	1.16	1.42	1.17	.96	.80	.68
28----	.81	.92	1.06	1.17	1.38	1.12	.92	.77	.63
29----	.64	.76	.91	1.11	1.41	1.10	.93	.81	.67
30----	.70	.82	.97	1.15	---	----	----	---	---
Aver- ages	.79	.90	1.02	1.21	1.42	1.20	1.03	.90	.79

NET RADIATION

Net radiation in langleys per day [illegible] at [illegible] APRIL 1975

Date.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Avg.
Langleys. . .	-2[illegible]	-1[illegible]	-12	-13	23	-[illegible]	-[illegible]	[illegible]	61	80	[illegible]	188	119	12[illegible]	12	151	38	-8	-62	-87	-6	119	181	182	196	1[illegible]2	173	196	202	178		69

SOLAR ULTRA-VIOLET RADIATION DATA

[illegible]

Date. . .	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	[illegible]
Langleys.																																

NO DATA RECEIVED

TOTAL OZONE DATA

These provisional ozone data are obtained from measurements made with a Dobson ozone spectrophotometer, and are applicable approximately to local apparent noon. The data are presented in the code [illegible] defined in the August 1963 WMO [illegible], entitled "PUBLICATION OF DATA FOR METEOROLOGICAL RESEARCH, WORLD OZONE DATA."

[illegible] Milli-atm-cm

Station	Day of month																														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

NO DATA RECEIVED

REFERENCE NOTES

[illegible] – [illegible] data in the table apply to the period 24 hours prior to time of observation. [illegible] see individual Climatological Data for times of observation.

+ And also on an earlier date or dates.
D Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch of water equivalent to every 10 inches of snowfall

CLIMATOLOGICAL DATA - METRIC UNITS: Data from airport unless otherwise specified.

Precipitation data in column headed "Greatest in 24 hours" are computed on a 24-hour basis without regard to calendar day - data may include precipitation with a measurable amount from the last day of the previous month or the first day of the following month.

Wind directions under resultant direction are in tens of degrees.

Value entered in column "Fastest Mile" is the highest observed 1-minute wind speed when the direction is in tens of degrees. These stations are not equipped with a recording anemometer from which "Fastest Mile data can be evaluated.

B Number of days maximum 21.1°C. or above for Alaskan Stations.
Y Peak Gust.
+ And also on an earlier date or dates.
U Indicates Urban site.
R Indicates Rural site.
[illegible] Station pressures apply to elevations shown in the Elevation Table of the annual issue of this publication.

Conversion formulae to English Units are as follows:

1 foot = 0.3048 meters
F. = $\frac{9}{5}$ x C. + 32
1 inch = 25.4 millimeters
1 mile per hour = 0.447 meters per second

HEATING DEGREE DAYS: Data from airport unless otherwise specified.

U Indicates Urban site.
R Indicates Rural site.

COOLING DEGREE DAYS: Data from airport unless otherwise specified.

U Indicates Urban site.
R Indicates Rural site.

STORM SUMMARY:

° Includes crop damage.
[illegible] Crop damage.
* No occurrence of storms or unusual weather phenomena reported.
[illegible] Includes heavy sleet storm
# Freezing drizzle and freezing rain, commonly known as glaze.
Ø For breakdown of "All Others," and for detailed listing of other storms, see the Environmental Data Service, NOAA, monthly publication STORM DATA.
[illegible] No Storm Data Report received for this State
[illegible] Report Incomplete
† Storm damages are placed in categories varying from 1 to 9 as follows:
1 Less than $50
2 $50 to $500
3 $500 to $5,000
4 $5,000 to $50,000
5 $50,000 to $500,000
6 $500,000 to $5 Million
7 $5 Million to $50 Million
8 $50 Million to $500 Million
9 $500 Million to $5 Billion.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS:

1/ Flooding continued at the end of the month.
NA Not available.

FLOOD STAGE DATA:

# Highest Stage Observed
1/ Continued at end of month
___ Highest Stage of Record
E Estimated
P Provisional (Flood Stage)
U Unknown

RAWINSONDE DATA (Average Monthly Values):

All observations scheduled at 1200, G.C.T. Pressures shown under station names are the average monthly station pressures for the month of record, corrected to the height of the floors of the instrument shelters used for rawinsonde purposes. "Number of observations" refers to those of dynamic height only. Although the number of temperature observations at any given pressure surface is usually the same as for height, it is possible for temperature to be missing for one or more pressure surfaces of some observations. Dew Point averages are limited to those observations with temperatures warmer than -40°C. Observations of wind speed and direction are sometimes lost due to limiting angles, i.e., elevation angles less than 6° above the horizon, or any obstruction above the horizon. The temperature and wind values are based on 15 or more observations at the surface or 5 observations at a standard pressure level for temperature and 10 for wind. Dew Point data are not published for standard pressure surfaces for which less than 5 observations are available. Dew Point data are computed and expressed on the basis of vapor pressure over water. Unless otherwise indicated, they are obtained from carbon hygristors. These average values for standard pressure surfaces were obtained by rawinsondes; dynamic height (geopotential) in units of .98 dynamic meter, temperature and dew point in degrees Celsius, and resultant winds in tens of degrees and meters per second.

* Rawinsondes at this station were equipped with hypsometers to permit more accurate evaluations of pressure, and consequently height, at pressures lower than 50 mb. These rawinsondes were carried aloft by special high altitude balloons, in an effort to consistently reach higher altitudes.
~ Observations for these stations are scheduled at 0000 G.C.T.
† Dew Point temperatures are based on a minimum of 5 observations. Therefore, due to the lesser number of Dew Point observations at the higher levels comparison with dry-bulb temperatures should be made with care. Dew Point temperatures replaced Relative Humidity January 1967.

REFERENCE NOTES (Continued)

SOLAR RADIATION INTENSITIES: Langley is the unit used to denote one gram calorie per square centimeter. An explanation of the formula used in computing the air mass values for each station appears in the February 1957 issue, Vol. 8, No. 2, page 63, of this publication.

()	Clouds Present	DM	Moderate Dust	HM	Moderate Haze	KS	Slight Smoke
*	Values corresponding to true solar noon	DS	Slight Dust	HS	Slight Haze	M	Moderate Haze-indeterminable
BD	Blowing Dust	F	Fog	I	Intense Haze-indeterminable		
BN	Blowing Sand	GF	Ground Fog	K	Smoke	N	Haze
D	Dust	H	Haze	KI	Intense Smoke	S	Slight Haze-indeterminable
DI	Intense Dust	HI	Intense Haze	KM	Moderate Smoke		

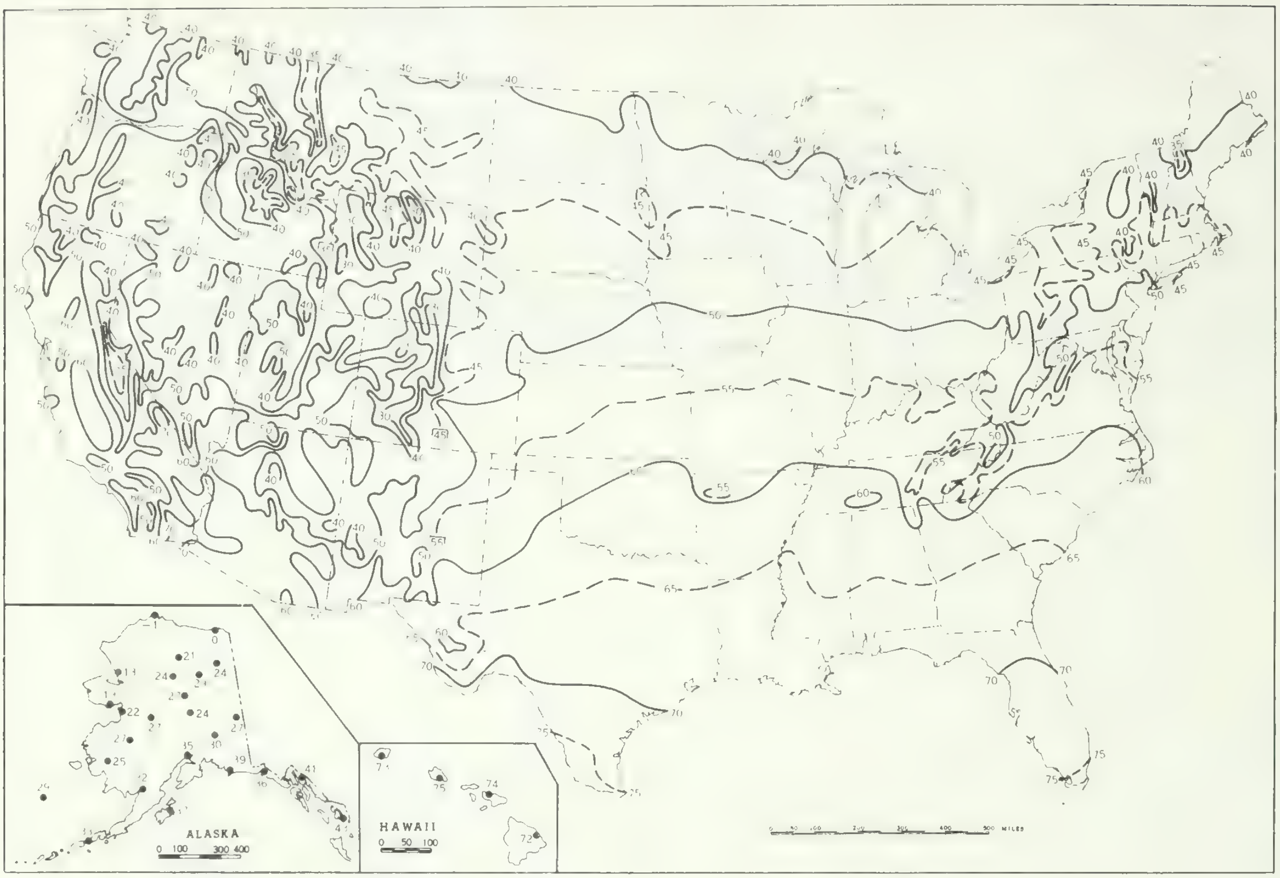
NET RADIATION: The measurement is made with a CSIRO FUNK net exchange radiometer over a plot of sod. The value represents the total incoming minus the total outgoing radiation of all wave lengths.

These data are of an experimental nature and are published as received from the Palmer Exp. Station. The instrument with which they were measured has not been checked by the NOAA, National Weather Service.

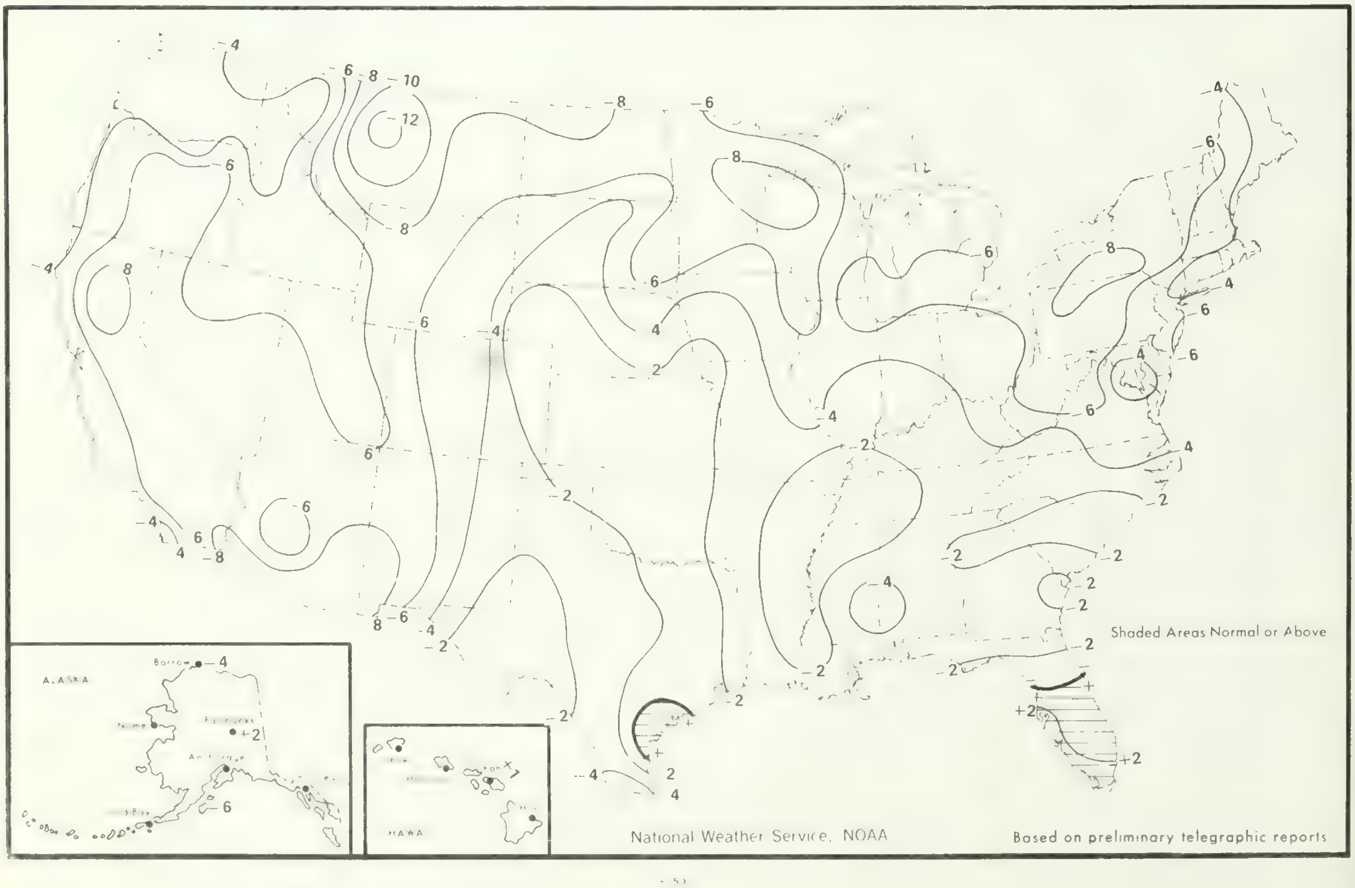
SOLAR ULTRA-VIOLET RADIATION DATA: These data are from an U-V Eppley total ultra violet sensor and Speedomax H (Leeds Northrup) Recorder. This instrument has not been checked by the NOAA, National Weather Service.

TOTAL OZONE DATA: The spectrophotometer measures the total amount of ozone in the atmosphere, i.e., the amount contained in a vertical column of air extending from ground level to the top of the atmosphere in the vicinity of the station. The amount of ozone in this column (coded $\Omega\ \Omega\ \Omega$) is expressed in terms of a thickness of a layer it would occupy at standard temperature and pressure, e.g., 350 milli-atmo-cm ozone implies an ozone layer 0.350 centimeter thick. The code λs designates the type of measurement made.

Chart 1. A. Normal Daily Average Temperature (°F. 1941-70), April.


40
45
50
55
60
65
70
75
ALASKA
0 100 300 400
HAWAII
0 50 100
0 50 100 200 300 400 500 MILES

B. Temperature Departure from 30 - Year Mean (°F. 1941-70),April 1975

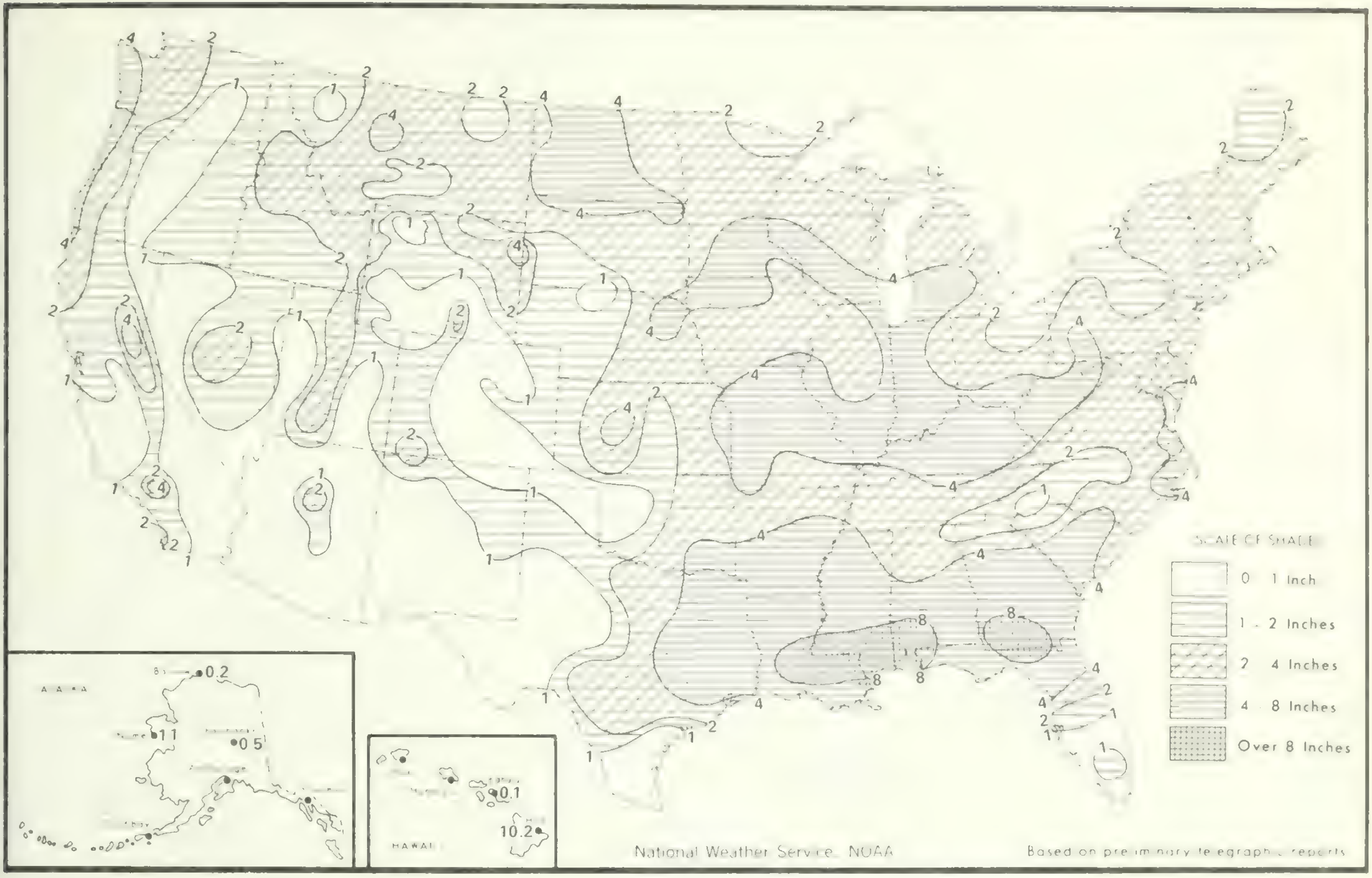

-4
-6
-8
-10
-12
-2
+2
Barrow
+2
ALASKA
HAWAII

Shaded Areas Normal or Above

National Weather Service, NOAA

Based on preliminary telegraphic reports

Chart II. A. Total Precipitation (Inches), April 1975


SCALE OF SHADE
0 - 1 Inch
1 - 2 Inches
2 - 4 Inches
4 - 8 Inches
Over 8 Inches
ALASKA
0.2
1.1
0.5
HAWAII
0.1
10.2
1
2
4
8

National Weather Service, NOAA

Based on preliminary telegraphic reports

B. Percentage of Normal Precipitation, April 1975

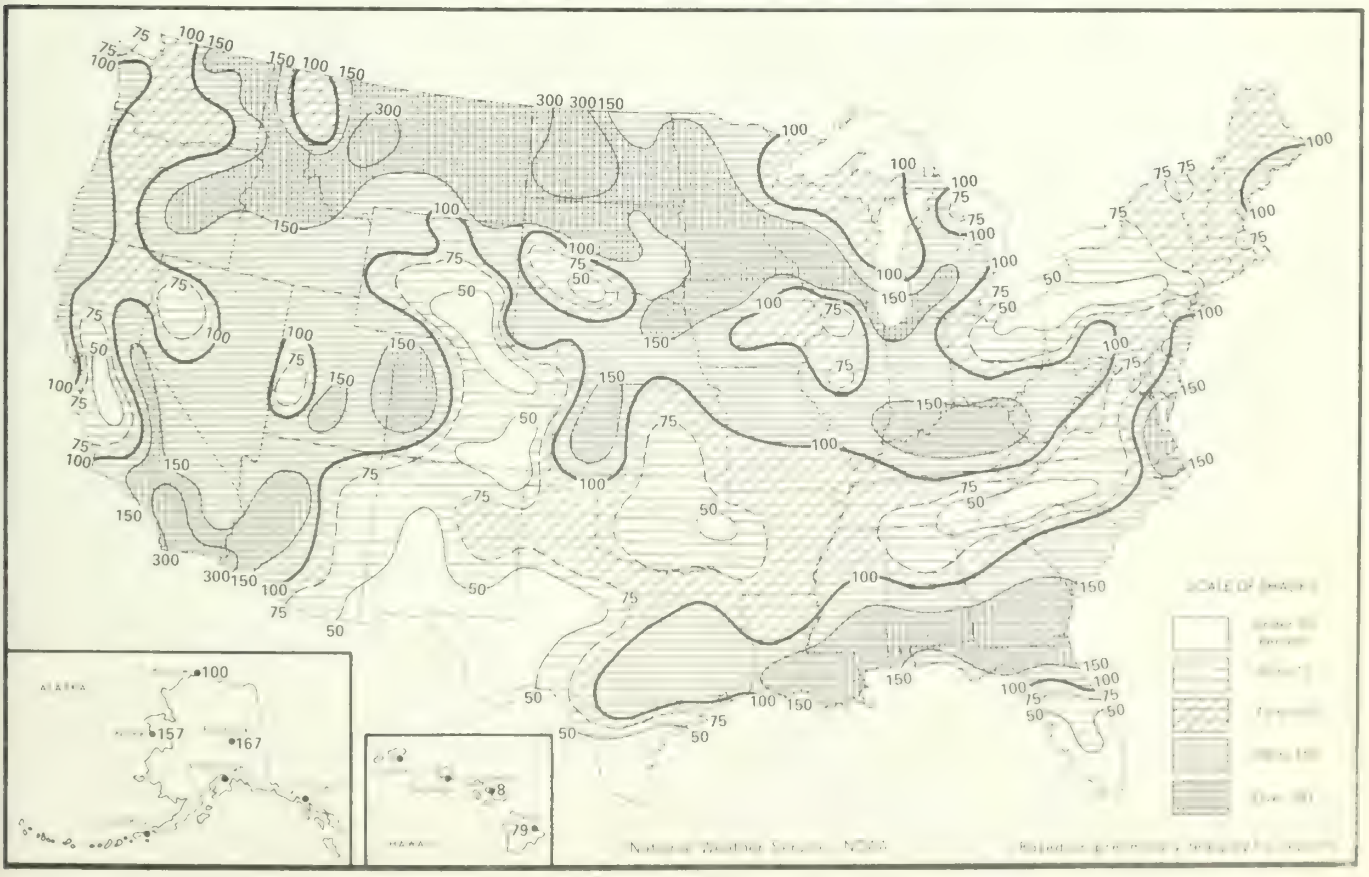
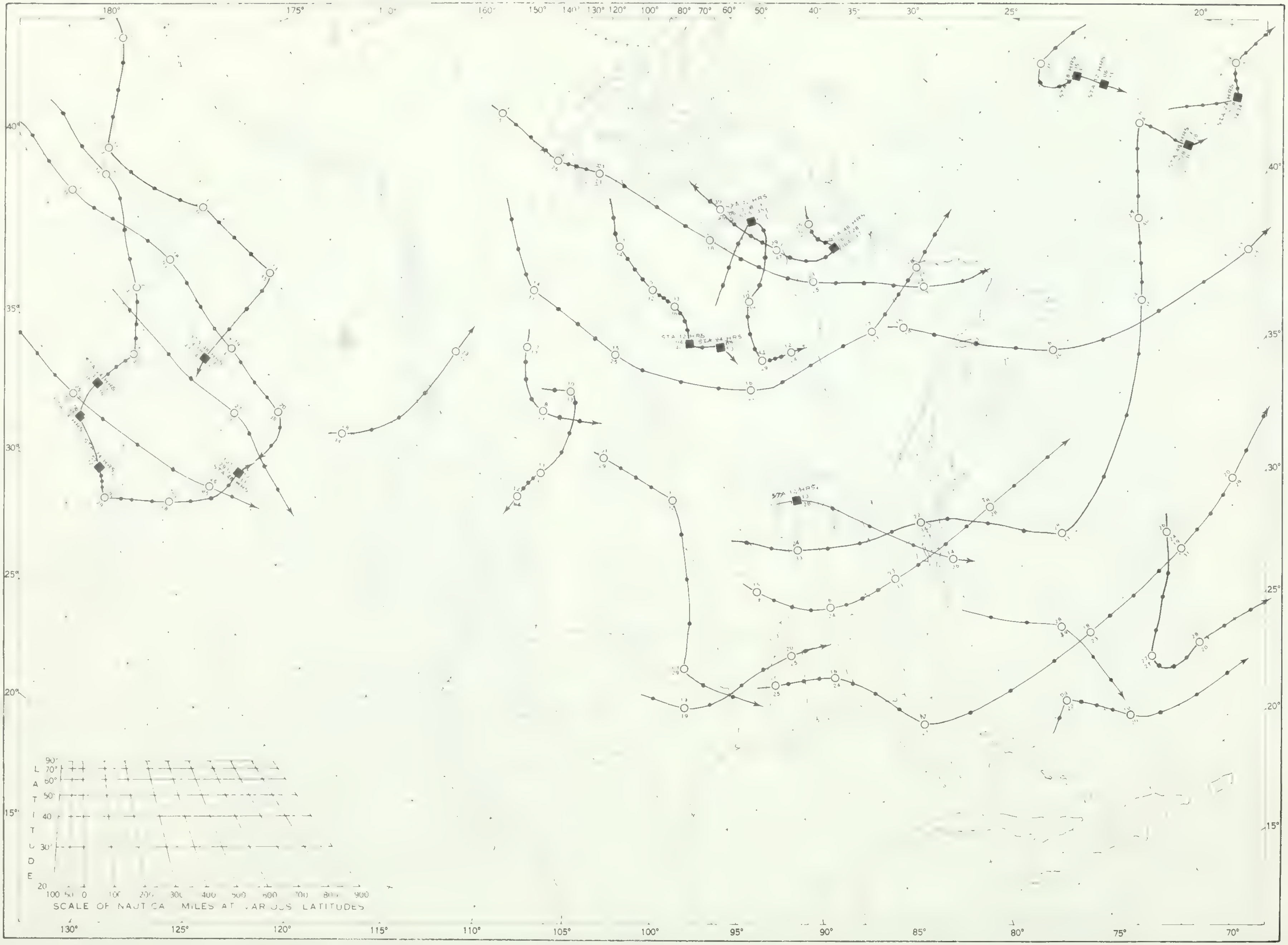
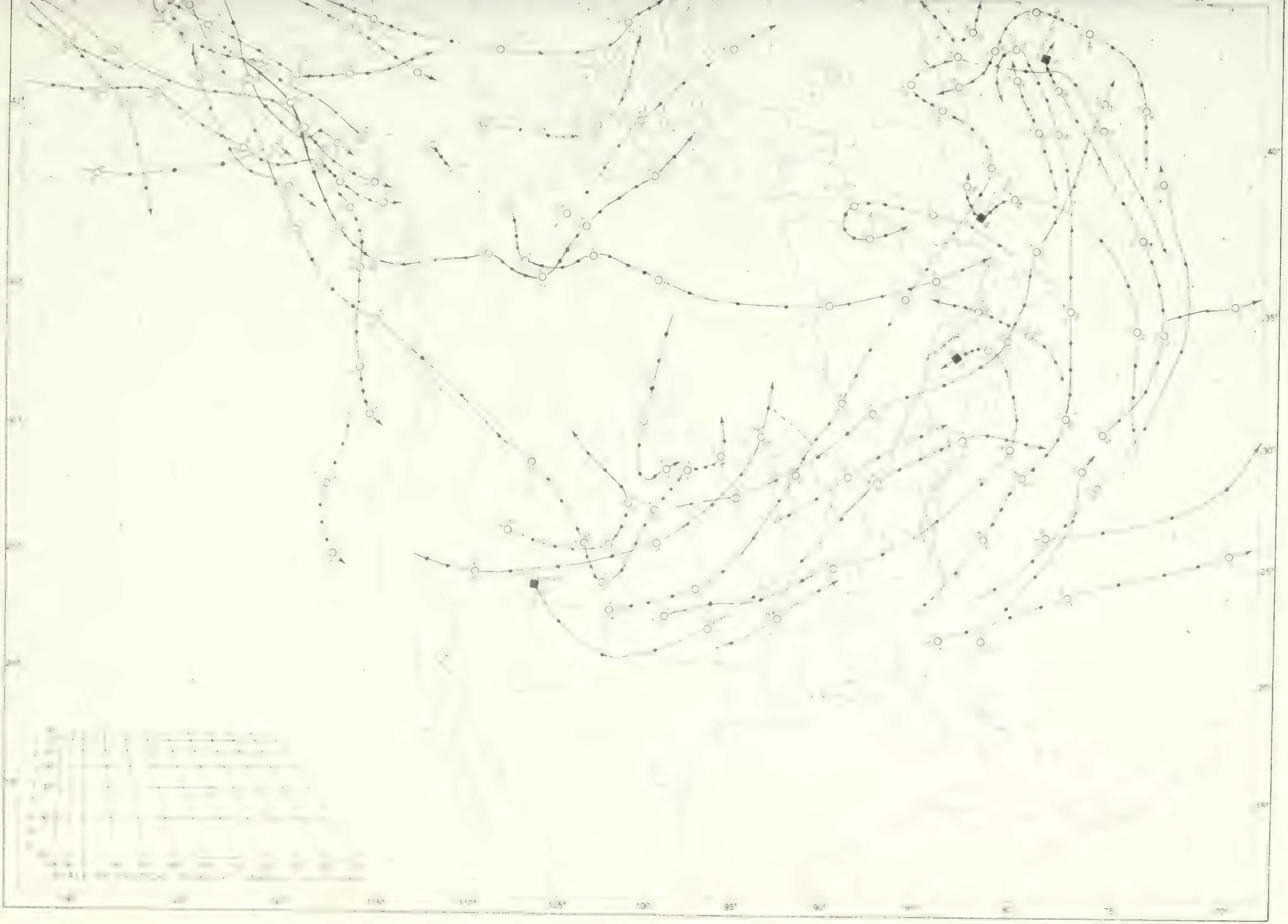

SCALE OF SHADE
ALASKA
100
157
167
HAWAII
8
79
50
75
100
150
300

Chart III. Tracks of Centers of Anticyclones at Sea Level, April 1975


180°
175°
160°
150°
140°
130°
120°
100°
80°
70°
60°
50°
40°
35°
30°
25°
20°
40°
35°
30°
25°
20°
15°
130°
125°
120°
115°
110°
105°
100°
95°
90°
85°
80°
75°
70°
LATITUDE
90°
70°
60°
50°
40
30°
20
100 50 0 100 200 300 400 500 600 700 800 900
SCALE OF NAUTICAL MILES AT VARIOUS LATITUDES
STA 12 HRS
STA 24 HRS
STA 48 HRS

Circle indicates position of center at 7:00 a.m. E.S.T. Figure above circle indicates date, figure below, pressure to nearest millibar. Dots indicate intervening 6-hourly positions. Squares indicate position of stationary center for period shown. Dashed line in track indicates reformation at new position. Only those centers which could be identified for 24 hours or more are included.



Circle indicates position of center at 7:30 a.m. E.S.T. Figure above circle indicates date; figure below, pressure to nearest millibar. Dots indicate intervening 6-hourly positions. Squares indicate position of stationary center for period shown. Dashed line in track indicates reformation at new position. Only those centers which could be identified for 24 hours or more are included.

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1776-1976

1975 VOLUME 26 NUMBER 5

CLIMATOLOGICAL DATA

NATIONAL SUMMARY

DEPARTMENT OF COMMERCE
UNITED STATES OF AMERICA

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William H Haggard
DIRECTOR
NATIONAL CLIMATIC CENTER

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NOTE: Late reports and corrections will be carried in the June and December issues of this publication. An explanatory page "Description of Charts' will be carried in the January and July issues.

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CLIMATOLOGICAL DATA

NATIONAL SUMMARY

MAY 1975

GENERAL SUMMARY OF WEATHER CONDITIONS

Dr. Richard E. Felch, Climatologist

LIGHTS: Precipitation totals ranged from noth-
in parts of the Southwest to over 12 inches in
s of Oklahoma, Texas, and the Carolinas. Amounts
well above normal in the Atlantic Coastal States,
Southeast and Deep South, Texas, the southern
t Plains, and the northern Rocky Mountains. The
notable dry areas were New England, the north
ral Great Plains, New Mexico, California, and
on.

of the Rockies, the Nation averaged warmer than
l with the greatest departures occurring in some
h Central States and New England.

IPITATION: May began with heavy rain and some
ent weather in the Southeast and Texas. Locally
y rains in Louisiana, Arkansas, Tennessee, and
heast Texas produced local flooding.

heaviest precipitation during the week ending
11th occured in Montana, central Texas, and the
r Mississippi River States. Severe weather oc-
ed from the Central Plains to Georgia with num-
s tornadoes reported. Three twisters struck
a, Nebr., simultaneously on the 6th resulting
he worst tornado disaster there since Easter
ay, 1913. An even more intense twister nearly
royed the town of Magnet in northeast Nebraska.
adoes struck Mississippi, Louisiana, Arkansas,
western Texas on the 9th.

irly open week from the 12th to the 18th in the
h Central States gave Corn Belt farmers a good
t in planting. Heavy rain fell in western
aska and northeast Colorado southeastward to
siana and east and north to New Jersey.

y snow fell in the Rockies during the following
. Lander, Wyo., accumulated 18 inches on the
nd despite some melting. Severe weather also
rred from Texas to the Northern Plains. The
mid-South and Southeast got a welcome respite from heavy rains. Twenty-one tornadoes were reported in Texas, Arkansas, Iowa, Illinois, Minnesota, and Michigan on the 19th.

Heavy rains of 2 inches or more fell in many parts of the Nation west of the Rockies during the final week of May. Over five inches of snow fell on the 29th at Denver, Colo., the heaviest ever reported so late in the season.

TEMPERATURE: Record breaking low temperatures occurred in Colorado, Michigan, and New England during the first few days of May. Freezing temperatures occurred again in the northern Rockies on the morning of the 5th.

Temperatures during the week ending on the 11th averaged well below normal from the Rockies westward, and in the Atlantic Coast States. Warm temperatures in the Corn Belt and Great Plains gave farmers a big boost in spring planting.

Most of the Nation was warmer than usual the week ending on the 18th. Only the Southern Great Plains, parts of the Corn Belt, and the central Alpalachians were colder than normal. On the 13th, Bakersfield, Cal., reached 106°, a record for so early in the season.

Sharp contrasts in temperatures set record highs and lows almost daily during the week ending on the 25th. Temperatures in the eastern half of the Country averaged as much as 18° above normal while Wyoming, under a heavy snow cover, averaged at least 12° below normal.

The last week of the month averaged well below normal in the central portions of the Nation and above in the West and East.

OBSERVED EXTREMES OF TEMPERATURE AND PRECIPITATION -- BY STATES

MAY 1975

STATE	Temperature						Precipitation			
	Monthly extremes						Monthly extremes			
	Station	Highest	Date	Station	Lowest	Date	Station	Greatest	Station	Least
		°F			°F			In.		In.
Alabama	Brewton 3 SSE	98	25	2 Stations	42	5+	Fairhope 2 NE	11.11	Aliceville	1.99
Alaska	2 Stations	80	11	Galbraith	- 5	19	Mac Leod Harbor	27.72	Eklutna Lake	.00
Arizona	Ehrenberg	107	31	Sunrise Mountain	9	6	Walnut Canyon Natl. Mon.	1.69	87 Stations	.00
Arkansas	Saint Charles	96	24	Gilbert	38	2	Crossett 2 SSE	14.32	Salem	1.55
California	Death Valley	112	31	White Mountain 1	-12	1	Gasquet Ranger Station	3.24	157 Stations	.00
Colorado	La Junta FAA	95	16	Twin Lakes Reservoir	2	6	Sedgwick 5 S	7.34	Blanca	.00
Connecticut	Hartford WSO AP	94	24+	Wigwam Reservoir	30	6	Shepaug Dam	5.55	Stafford Springs 2	2.33
Delaware	Newark University Farm	91	24	Georgetown 5 SW	39	6	Wilmington WSO AP	5.65	Geowgetown 5 SW	3.28
Florida	Ocala	101	27	2 Stations	54	6+	Flamingo Ranger Station	24.72	Key West WSO AP	1.36
Georgia	3 Stations	99	27	Blairsville Exp. Station	39	5	Waynesboro 2 NE	10.48	West Point	1.86
Hawaii	Keawakapu Beach 260.2	88	20	Mauna Loa Slope Obs.	29	17	Lanihau 68.2	14.66	22 Stations	.00
Idaho	Bruneau	94	14	Warren	13	1	Grangeville 11 SE	4.00	Glenns Ferry	.11
Illinois	5 Stations	96	24+	Wheaton 3 SE	30	13	Jacksonville	9.07	2 Stations	1.95
Indiana	English	97	22	2 Stations	32	13	Rochester	6.87	Liberty 3 SSE	1.51
Iowa	3 Stations	96	22+	Elkader 5 SSW	28	1	Blockton 2 S	7.07	Iowa City	1.36
Kansas	Phillipsburg 1 SSE	96	19	Colby 1 SW	27	8	Dexter	10.72	Concordia WSO AP	2.63
Kentucky	Louisville	94	23	2 Stations	37	5+	Burdine 2 NE	10.98	Rochester Lock 3	1.65
Louisiana	Alexandria WSO AP	95	21	Hammond 3 NW	50	18	Galliano	18.87	New Iberia 5 NW	4.46
Maine	East Hiram	92	24+	2 Stations	22	1	Bridgewater	3.81	Lewiston	.75
Maryland	Cumberland 2	94	21	2 Stations	34	8+	Baltimore WSO CI	8.08	Salisbury FAA AP	2.20
Massachusetts	Chester 2	99	24	Chester 2	26	8	Great Barrington AP	5.56	Newburyport	1.34
Michigan	4 Stations	93	21+	Vanderbilt 11 ENE	20	13	Gull Lake Biology Station	6.02	Mott Island Isle Royal	1.03
Minnesota	3 Stations	96	21	Tower 3 S	20	12	Bricelyn	5.63	Redwood Falls FAA AP	.48
Mississippi	Merrill	94	27	University	48	13	Cleveland	16.68	Brooksville Exp. Station	2.27
Missouri	Tarkio	96	22	2 Stations	32	2+	Grant City	7.86	Mountain Grove 2 N	1.10
Montana	2 Stations	90	15	Cooke City	4	1	Belltower	8.34	Raymond Border Station	.49
Nebraska	Beaver City	96	19	2 Stations	23	1	Lamar	6.74	Valentine WSO AP	.76
Nevada	Sunrise Manor Las Vegas	105	31	Spring Valley State Park	9	21	Lamoille 3 E	3.22	Silverpeak	.00
New Hampshire	Concord WSO AP	96	20	Pinkham Notch	19	1	Mount Washington	4.32	Mount Sunapee	.61
New Jersey	Plainfield	95	24	Sussex 1 SE	33	3	Pottersville 2 NNW	6.19	Atlantic City	2.73
New Mexico	4 Stations	95	31+	Zuni 4 NE	9	6	Pearl	5.23	10 Stations	.00
New York	Mineola	96	21	Old Forge	24	8	Frost Valley	7.96	Peru 2 WSW	.63
North Carolina	2 Stations	97	29+	Transou	35	14+	Rosman	18.55	Kinston 7 NNE	1.03
North Dakota	5 Stations	89	17	Stanley 3 NNW	22	1	Bowman 11 SE	4.62	Grand Forks University	.58
Ohio	Toledo Blade	97	26+	Warren 3 S	29	7	McConnelsville Lock 7	7.13	La Rue	.56
Oklahoma	2 Stations	95	25+	Boise City 2 E	33	7	Stillwater 2 W	13.13	Kenton	1.96
Oregon	2 Stations	98	31	Lake 2 N	6	25	Valsetz	5.60	5 Stations	.03
Pennsylvania	Sunbury	97	22	Clermont 4 NW	24	8	Stoystown	8.69	Braddock Lock 2	1.80
Puerto Rico	2 Stations	95	31	Adjuntas Substation	49	3	San Sebastian 2 WNW	12.79	2 Stations	.10
Rhode Island	Providence WSO AP	91	24	Kingston	35	8	Block Island WSO AP	4.42	Woonsocket	1.67
South Carolina	3 Stations	98	26+	Walhalla	42	5	Caesars Head	13.04	McColl	2.73
South Dakota	5 Stations	93	20	Deerfield 4 NW	15	2	Camp Crook	6.28	Alexandria	.49
Tennessee	Athens	94	24	Mountain City 2	35	14	Huntingdon Water Plant	9.70	Clarksville Sewage Plant	2.16
Texas	Zapata	106	6	Walcott	28	7	Wharton	17.11	Ysleta	.02
Utah	Hanksville	95	15	Silver Lake Brighton	5	2+	Pine View Dam	7.28	La Verkin	.10
Vermont	2 Stations	93	24+	West Burke	25	1	Peru	4.54	Montpelier FAA AP	.61
Virginia	Lincoln	96	21	Burkes Garden	29	3	North Fork Lake	10.90	Parramore Beach L B S	.22
Virgin Islands	2 Stations	89	30+	Beth Upper New Works	63	2	Cruz Bay	2.13	Frederiksted	.29
Washington	2 Stations	92	31	Rainier Paradise Ranger Sta	19	25+	Quinault Ranger Station	8.32	Satus Pass 2 SSW	.06
West Virginia	Ravenswood Lock Park	96	25	Seneca State Forest	29	8	Camden on Gauley	9.68	Matoaka	1.77
Wisconsin	3 Stations	95	19	Neillsville 3 SW	21	16	Mondovi	5.68	Port Washington	.64
Wyoming	Torrington Exp. Farm	90	15	Darwin Ranch	1	1	Thermopolis 2	6.67	Kendall	.15

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure: Station	Pressure: Sea level	Temperature: Average maximum	Temperature: Average minimum	Temperature: Average	Temperature: Departure from normal	Temperature: Highest	Date	Temperature: Lowest	Date	No of days: Max 32.2 °C or above	No of days: Min 0 C or lower	Average dew point	Average relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	No of days: 25 mm or more	No of days: With thunderstorms	Snow, Ice pellets: Total	Snow, Ice pellets: Maximum depth on ground	Wind: Resultant speed	Wind: Resultant direction	Fastest mile (1.6 kilometers): Speed	Fastest mile: Direction	Fastest mile: Date	No of days (sunrise to sunset): Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10	Sky cover tenths (sunrise to sunset)	Possible sunshine
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m s		m s							%
ALABAMA																																
BIRMINGHAM	189	992.2	1014.3	27.8	17.1	22.4	1.1	32.8	26+	12.2	5	2	0	17.2	74	105	13	33	12	6	0	0	0.1	19	10.7	5	26	2	11	18	7.6	51
HUNTSVILLE	190	991.9	1014.6	26.6	15.2	20.9	0.1	31.7	26	8.9	5	0	0	15.7	78	165	67	61	11	7	0	0	0.5	15	14.3	30	26	7	10	14	6.5	
MOBILE	64	1005.8	1013.7	29.6	19.8	24.7	0.9	33.9	26	16.7	1	7	0	18.9	75	181	66	42	13	11	0	0	1.1	17	11.6	21	15+	5	9	17	6.9	
MONTGOMERY	59	1007.5	1014.5	27.7	17.9	22.8	0.4	32.2	24	12.8	6	1	0	18.9	80	112	23	53	11	4	0	0	0.3	20	12.1	SW	7	7	8	16	6.5	67
ALASKA																																
ANCHORAGE	35	1005.4	1011.2	12.1	3.8	7.9	0.1	20.6	31	-1.1	8	B 0	2	1.1	64	10	-5	4	7	0	10	51	1.7	19	10.7	16	19	0	6	25	8.[illegible]	34
ANNETTE	34	1012.5	1016.7	12.3	4.2	8.3	-1.4	22.8	9	1.7	23+	2	0	2.8	73	100	-58	19	16	0	T	0	1.4	18	10.3	18	21+	4	6	21	7.8	
BARROW	9	1018.6	1019.3	-4.5	-9.9	-7.2	0.0	0.6	30	-18.3	1	0	31	-8.3	90	2	-2	1	6	0	18	152	3.9	8	13.0	6	11	3	3	25	8.5	
BARTER ISLAND	12	1015.9	1018.	-3.9	-7.9	-5.9	0.1	2.2	29	-13.3	2	0	31	-7.2	92	1	-7	1	1	0	5	203	3.3	8	17.[illegible]	9	11	1	2	28	9.3	
BETHEL	38	1003.7	1009.6	8.9	-0.4	4.3	-0.2	17.2	31	-5.6	21	0	19	0.0	75	12	-9	4	11	0	89	127	1.2	2	13.[illegible]	8	10+	1	9	21	8.[illegible]	
BETTLES	196			12.9	1.8	7.3	1.9	19.4	31+	-10.0	19	0	13			8	-8	7	2		8	356			7.6	1	28+	13	11	7	4.[illegible]	
BIG DELTA	386			14.9	4.4	9.7	1.7	23.3	10	-1.7	6+	2	5			40	17	18	9		T	25										
COLD BAY	29	1001.7	1005.4	6.4	0.7	3.6	-0.6	10.0	30	-3.3	1	0	12	1.1	84	22	-33	9	15	0	64	T	0.4	19	14.3	25	4	0	4	27	9.1	
FAIRBANKS	133	992.6	1009.6	17.7	6.7	11.9	3.4	26.7	11	-0.6	6	8	1	-0.6	45	12	-4	8	7	0	T	T	0.4	32	9.8	4	14	2	13	16	6.[illegible]	
GULKANA	479			12.9	0.9	6.9	0.4	22.2	10	-4.4	7+	1	14			10	-6	8	3		T	T										
HOMER	19	1007.1	1009.7	9.1	2.1	5.6		14.4	9	-2.2	3	0	7	2.2	79	49	26	25	14	0	25	25			17.9	11	25	2	5	21	8.4	
JUNEAU	4	1014.6	1015.2	13.6	3.4	8.6	0.3	20.0	31+	-0.6	24	0	1	3.3	76	91	7	29	14	0	0	0	2.1	13	10.7	13	20+	3	3	25	8.[illegible]	33
KING SALMON	15	1005.4	1007.4	8.1	0.2	4.1	-1.8	13.3	28	-4.4	6	0	18	-0.6	74	22	-7	8	13	0	74	25	2.6	10	17.[illegible]	9	25	0	8	23	8.[illegible]	
KODIAK	4	1004.4	1008.8	6.4	1.4	3.9	-2.3	12.8	18	-1.7	6	0	8	1.1	83	289	178	72	22	0	5	0	3.4	7	14.3	11	25	2	5	24	8.[illegible]	
KOTZEBUE	3	1012.2	1012.7	1.6	-5.9	-2.[illegible]	-1.4	10.[illegible]	11	-15.0	1	0	30	-4.4	83	4	-7	2	3	0	13	610	3.[illegible]	29	16.[illegible]	30	17	4	16	11	6.[illegible]	
MC GRATH	105	996.4	1009.3	12.3	1.3	6.8	0.1	20.0	31	-5.0	8	0	14	-1.7	57	12	-8	5	7	0	33	356	[illegible].2	34	1[illegible].3	[illegible]	25	2	8	21	7.0	
NOME	4	1010.5	1011.2	4.6	-2.8	1.1	-0.5	10.2	14	-10.6	2	0	19	-2.2	79	3	-15	3	3	0	28	864	1.2	36	12.1	27	22	10	5	16	6.4	63
ST. PAUL ISLAND	7	1007.5	1008.4	1.7	-1.4	0.1	-1.5	6.1	31	-8.3	1	0	26	-1.1	92	13	-20	2	15	0	114	305	4.[illegible]	3	17.4	26	15	0	3	28	9.3	
SUMMIT	731			7.4	-1.[illegible]	3.2	0.2	15.0	31	-8.3	6	0	22			13	-7	6	8	0	193	203			8.9	26	29+	2	4	25	8.[illegible]	
TALKEETNA	105			12.6	1.8	6.7	-0.3	22.2	31	-4.4	8+	1	13			27	-10	5	12	0	1	686			8.0	18	17					
UNALAKLEET	5			6.6	-0.4	3.1		15.0	11	-6.7	19+	0	16			8		3	8		T	203			11.2	6	15					
YAKUTAT	9	1013.2	1014.3	9.7	2.3	6.1	-0.2	20.0	9	-2.2	3	0	6	2.2	79	234	30	55	22	0	16[illegible]	254	1.6	10	9.4	13	[illegible]	0	3	28	9.[illegible]	
ARIZONA																																
FLAGSTAFF	2135	785.6	1012.4	18.4	-1.2	8.6	-1.4	26.1	14	-10.0	6	0	18	-6.1	39	29	15	17	6	2	20[illegible]	102	1.7	22	2[illegible].0	SW	[illegible]	14	14	3	4.[illegible]	9[illegible]
PHOENIX	340	97[illegible].5	1008.8	33.5	16.1	24.8	0.2	38.9	31+	7.2	6	23	0	-1.7	19	T	-4	T	0	0	0	0	1.[illegible]	24	18.3V	W	2[illegible]	27	3	1	1.5	9[illegible]
TUCSON	788	922.1	1008.6	29.4	12.4	21.0	-2.1	36.1	15	4.4	7+	10	0	-2.8	21	3	-1	3	1	1	0	0	1.6	25	16.[illegible]	SW	[illegible]	24	6	1	1.[illegible]	9[illegible]
WINSLOW	1492	849.0	1011.2	24.7	5.1	14.9	-2.2	32.2	15	-3.9	6	1	5	-3.3	33	9	2	4	4	4	0	0	2.3	23	23.[illegible]	[illegible]	[illegible]	15	13	3	3.[illegible]	
YUMA	59	1002.0	1009.3	32.5	15.6	24.1	-1.9	40.0	31	9.4	6	18	0	3.3	29	0	-1	0	0	0	0	0	1.8	22	14.[illegible]	W	2[illegible]	29	2	0	.7	97
ARKANSAS																																
FORT SMITH	136	995.9	1012.5	26.8	15.2	21.0	-0.2	30.6	19	8.9	16+	0	0	15.6	73	176	36	58	13	10	0	0	0.8	1[illegible]	17.9	W	9	7	14	10	6.[illegible]	5[illegible]
LITTLE ROCK	78	1004.1	1013.3	29.2	16.7	22.5	1.5	33.3	22	9.4	2	3	0	16.7	72	149	14	54	15	13	0	0	0.4	16	20.6	W	10	5	10	16	6.5	6[illegible]
CALIFORNIA																																
BAKERSFIELD	145	994.9	1012.3	30.6	15.6	23.1	2.1	41.1	13	6.7	5	12	0	4.7	38	T	-5	T	0	0	0	0	1.9	33	10.3	[illegible]	4+	26	4	1	2.1	
BISHOP	1252	871.3		26.8	6.1	16.4	-0.3	35.0	31	-2.2	5	4	1			T	-7	T	0		0	0			23.7V		19					
BLUE CANYON	1609	838.5		17.3	6.8	11.9	1.2	25.7	31	-5.0	4	0	5			33	-47	29	3		114	1092	0.1	17	8.9	5	19+	18	6	7	3.7	
EUREKA	13			13.5	8.0	10.8	-0.6	17.8	30	3.9	4	0	0			27	-27	15	5		0	0			15.6	[illegible]	[illegible]	10	10	11	5.4	5[illegible]
FRESNO	1[illegible]	1001.0	1012.6	29.5	10.9	20.2	0.5	37.8	30	2.2	5	11	0	7.2	46	T	-8	T	0	0	0	0	1.8	30	13.0	[illegible]	3	24	7	1	2.1	9[illegible]
LONG BEACH	8	1012.9	1014.2	21.8	13.1	17.4	-0.4	25.0	30+	8.3	7+	0	0	11.1	71	T	-2	T	1	0	0	0	1.7	23	11.2	17	4	14	11	6	4.7	
LOS ANGELES	30	101[illegible].2	1013.9	19.7	12.6	16.2	-0.4	21.7	25+	9.4	6	0	0	12.2	82	1	-1	1	1		0	0	[illegible]	25	13.3V	[illegible]	4	9	14	8	5.6	
LOS ANGELES	92			21.3	12.8	17.1	-1.1	24.7	12	10.0	21+	0	0			2	-1	2	1		0	0			1[illegible]	[illegible]	4	9	15	7	5.[illegible]	6[illegible]
MT SHASTA	1080	892.7	1016.0	20.4	4.9	12.7	0.9	31.7	31+	-1.1	4	0	4	0.0	44	2	-45	1	3		T	T	[illegible].1	32								
OAKLAND	2	1015.2	1015.4	20.7	11.[illegible]	15.9	1.0	36.7	29	6.1	5	2	0	9.4	70	T	-14	T	0	0	0	0	3.5	29	11.2	32	19	18	7	6	3.5	
RED BLUFF	104	1001.0	1013.5	28.8	12.3	20.6	0.9	4[illegible].0	30	2.8	5	12	0			T	-25	T	0	0	0	0	2.3	35	14.3	[illegible]	[illegible]	20	6	5	3.[illegible]	97
SACRAMENTO	5	1012.2	1013.1	28.8	1[illegible].3	2[illegible].1	2.2	37.3	30+	3.9	5+	13	0	7.2	50	T	-13	T	0	0	0	0	1.7	25	13.[illegible]	[illegible]	[illegible]	23	7	1	[illegible]	9[illegible]
SANDBERG	1377	861.2		19.6	8.3	14.7	0.8	24.3	30	-3.3	4	0	3	1.1	47	2	-5	2	2		5	T	4.1	33	19.7	[illegible]	[illegible]					
SAN DIEGO	4	1012.5	1014.5	19.6	14.0	16.8	-0.6	21.1	3[illegible]+	10.0	6	0	0	13.6	80	T	-4	T	1			0	1.9	25	8.5	SW		5	10	16	6.[illegible]	6[illegible]
SAN FRANCISCO	2	1014.9	1015.4	20.2	9.[illegible]	14.7	[illegible]	34.4	29	6.1	5+	2	0	7.2	67	T	-12	T	1			0	4.7	27	17.[illegible]	29	19	10	7	5	3.6	
SAN FRANCISCO	[illegible]			17.9	[illegible]	14.[illegible]	0.3	33.3	2[illegible]	7.2	4	1	0			[illegible]	-13	[illegible]	[illegible]			[illegible]										
SANTA MARIA	72			18.6	7.8	13.2	-0.7	24.7	12	0.0	5	0	1			T	-5	T	0			0						14	11	5	4.4	
STOCKTON	7	1012.5	1013.5	26.7	11.3	[illegible]	1.6	36.7	30+	3.9	4	12	0	7.2	51	0	-11	[illegible]	0			0	3.6	[illegible]	14.3	[illegible]	[illegible]	6	7	3	7.4	
COLORADO																																
ALAMOSA	2297	7[illegible].4		18.5	-[illegible].8	8.5	-1.9	[illegible]	27+	-1[illegible].6	7	0	32			T	-[illegible]	T	[illegible]		[illegible]	[illegible]	[illegible]	32				14	14	3	4.[illegible]	

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure		Temperature											Average relative humidity	Precipitation							Wind					No of days (sunrise to sunset)			Sky cover, tenths (sunrise to sunset)	Possible sunshine
												No of days							No of days		Snow, Ice pellets				Fastest mile (1.6 kilometers)							
		Station	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min 0 °C or lower	Average dew point		Total	Departure from normal	Greatest in 24 hours	25 mm or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10		
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m s		m s							%
COLORADO																																
COLORADO SPRINGS	1873	808.3	1010.8	19.9	3.9	11.9	-1.2	26.1	20+	-1.7	7	0	4	-2.2	42	25	-28	10	9	11	5	T	1.7	1	19.7	30	12	7	14	10	5.7	
DENVER	1610	833.4	1010.0	20.0	4.7	12.4	-1.5	29.4	16	-0.6	1	0	1	0.6	52	71	4	35	13	5	155	102	0.4	19	14.3	S	5	4	17	10	6.1	62
GRAND JUNCTION	1476	849.0	1010.3	21.0	6.8	13.9	-2.8	30.0	15	0.0	6	0	1	-0.6	42	31	15	10	9	2	33	25	0.3	12	17.0	SW	20	11	8	12	5.6	71
PUEBLO	1428	851.7	1008.6	24.5	6.4	15.4	-0.7	30.0	20+	1.1	23	0	0	0.6	42	18	-24	9	7	5	0	0	1.1	34	31.3	N	12	9	13	9	5.0	68
CONNECTICUT																																
BRIDGEPORT	7	1014.9	1015.6	21.2	11.9	16.6	2.0	31.1	20	6.1	8+	0	0	11.7	77	83	-8	37	9	3	0	0	0.8	15	13.4	8	24	5	9	17	6.7	
HARTFORD	52	1008.5	1015.1	25.1	11.1	18.1	3.5	34.4	24+	3.9	8+	4	0	10.0	64	84	-5	18	14	3	0	0	1.0	17	11.6	NW	27	2	13	16	7.3	57
DELAWARE																																
WILMINGTON	23	1012.2	1015.1	23.8	13.1	18.4	1.6	30.0	24	5.6	3	0	0	12.2	71	144	58	48	12	4	0	0	0.9	17	11.2	6	25	3	10	18	7.2	
DIST. OF COLUMBIA																																
WASHINGTON DULLES	88	1003.4	1015.0	24.5	12.3	18.4	1.4	31.1	22	4.4	3	0	0	13.9	77	76	-18	20	17	5	0	0	0.5	21	13.9	30	6	0	17	14	7.4	
WASHINGTON NATIONAL	3	1012.9	1015.1	26.2	15.7	20.9	1.9	32.8	22+	9.4	6	2	0	14.4	69	120	26	59	12	4	0	0	0.6	18	15.6	NW	6	1	16	14	7.2	59
FLORIDA																																
APALACHICOLA J	4			28.9	20.7	24.8	1.0	33.3	27	17.2	6	3	0			88	18	25	7	8	0	0			10.3	SE	15	12	6	13	5.6	
DAYTONA BEACH	9	1013.9	1015.3	30.6	19.6	25.1	1.2	33.3	31	16.7	6	6	0	20.0	77	76	9	16	13	14	0	0	0.8	12	9.4	21	16	5	13	13	6.4	
FORT MYERS	5	1014.6		33.2	20.9	27.1	1.7	35.0	24	19.4	19+	27	0	21.1	75	71	-31	27	10	11	0	0	0.9	20	9.8	18	15	5	18	8	5.4	
JACKSONVILLE	8	1014.6	1015.4	30.3	18.1	24.2	0.7	34.4	25+	12.2	6	7	0	20.0	80	178	96	137	10	10	0	0	0.7	13	27.7	N	27	6	10	15	6.6	66
KEY WEST	1	1014.7	1014.7	30.3	25.6	28.0	0.8	31.7	18	23.9	14+	0	0	21.7	70	35	-29	15	8	4	0	0	2.4	15	12.5	E	14	7	16	8	5.7	88
LAKELAND J	65			31.7	20.6	26.1	1.1	33.9	8	18.3	6	13	0			121	33	47	10		0	0						7	14	10	5.9	80
MIAMI	2	1014.9	1015.3	29.8	22.8	26.3	0.8	32.8	6	20.0	5+	2	0	21.1	77	125	-30	29	16	13	0	0	1.3	14	10.3	22	30+	5	16	10	6.3	
ORLANDO/MC COY AFB	29	1011.5	1015.2	32.6	19.7	26.2	1.5	34.4	8+	17.2	6	24	0	19.4	74	191	116	56	13	12	0	0	0.4	15	13.0	23	16	8	13	10	5.9	
PENSACOLA	34	1009.8	1014.1	29.6	20.3	24.9	0.9	33.3	26+	17.8	2	6	0	20.6	79	180	72	64	14	8	0	0	1.1	17	10.3	27	29	10	7	14	6.1	
TALLAHASSEE	17	1012.2	1014.6	31.1	18.3	24.7	0.9	35.6	25+	13.9	6	11	0	19.4	79	263	160	47	14	17	0	0	0.2	20	11.2	36	10	4	12	15	6.5	
TAMPA	6	1014.6	1014.9	33.3	21.7	27.5	2.4	36.7	26	18.3	2	25	0	20.0	67	53	-9	16	9	8	0	0	0.7	24	11.2	3	10	7	12	12	5.8	85
WEST PALM BEACH	5	1014.6	1015.1	30.0	20.9	25.4	0.2	32.8	4	18.3	2+	1	0	20.0	76	158	27	40	15	17	0	0	1.7	13	12.5	20	30	7	12	12	6.1	
GEORGIA																																
ATHENS	244	986.1	1014.5	27.0	17.1	22.1	0.9	32.2	25+	10.6	5	2	0	17.2	79	183	81	49	16	13	0	0	0.4	24	8.9	9	9	3	13	15	7.1	
ATLANTA	308	978.0	1014.4	26.7	16.6	21.7	1.1	32.2	25	10.6	6+	1	0	16.1	74	117	23	22	14	11	0	0	0.7	27	12.1	SW	16	5	9	17	6.9	53
AUGUSTA	41	1009.1	1014.3	28.6	16.3	22.5	0.4	34.4	25	9.4	5+	5	0	16.7	74	127	41	24	13	12	0	0	0.5	15	15.6	22	15	5	11	15	7.0	
COLUMBUS	117	1000.7		28.8	18.1	23.4	1.0	33.9	25	12.2	6	7	0	17.8	76	121	19	29	14	13	0	0	0.1	1	10.3	25	16	5	9	17	6.7	
MACON	108	1002.0	1014.8	29.1	17.4	23.3	0.2	35.0	25	11.1	6	7	0	17.8	76	119	28	26	13	13	0	0	0.4	18	20.6	SW	16	4	9	18	7.3	51
ROME	194			28.0	15.3	21.7	1.3	33.9	25	7.8	6+	4	0			144	44	40	13		0	0										
SAVANNAH	14	1013.5	1015.4	30.3	19.3	24.8	1.9	34.4	25+	13.9	6	6	0	20.0	79	152	46	48	10	9	0	0	0.9	17	13.4	N	3	6	8	17	6.9	63
HAWAII																																
HILO	8	1017.3	1018.5	27.4	18.2	22.8	-0.2	29.4	28	16.7	23+	0	0	17.2	73	76	-179	11	24	0	0	0	0.9	14	8.5	NE	5	3	12	16	6.9	51
HONOLULU	2	1017.3	1017.6	28.4	20.1	24.3	-0.7	30.0	27	17.2	10	0	0	17.2	67	5	-20	3	7	0	0	0	4.6	6	11.2	E	20+	2	20	9	6.4	61
KAHULUI	15	1014.9	1017.1	27.9	17.6	22.8	-1.3	29.4	29+	14.4	30+	0	0			1	-15	1	3	0	0	0	5.1	6	15.2	E	2	9	17	5	5.0	75
LIHUE	31	1013.5	1018.7	26.9	21.5	24.2	0.1	27.8	18+	18.3	10	0	0	18.3	71	17	-45	12	11	0	0	0	4.9	7	8.0	E	19+	3	19	9	6.0	68
IDAHO																																
BOISE	865	914.0	1013.8	20.6	6.3	13.4	-0.7	32.8	14	-1.1	25	1	1	1.7	48	22	-11	11	5	1	23	T	1.8	32	15.2	SW	14	9	12	10	5.7	69
LEWISTON	431			20.8	7.9	14.3	-0.2	30.0	31	1.7	4	0	0			26	-14	7	7		T	0			19.7Y		23	4	10	17	7.1	
POCATELLO	1358	860.8	1013.3	17.2	3.7	10.4	-2.0	28.3	15	-2.8	25	0	7	0.0	53	42	9	15	10	1	124	102	3.0	24	17.0	W	24+	5	11	15	6.7	62
ILLINOIS																																
CAIRO J	96			27.2	18.2	22.7	2.0	34.4	23	13.3	1	3	0			99	-33	35	12		0	0			18.8	NW	26					72
CHICAGO O HARE	201	989.5	1013.6	22.7	10.9	16.8	2.2	32.8	19	2.8	13	1	0	10.0	67	77	-10	20	15	7	0	0	0.2	12	10.3	21	20+	7	8	16	6.3	
CHICAGO MIDWAY	185	991.5	1014.1	22.9	11.4	17.2	1.7	34.4	19	3.9	13	1	0	8.9	63	135	48	67	13	9	0	0	0.2	11	15.6	S	20	7	10	14	5.9	67
MOLINE	177	991.5	1013.1	24.1	11.2	17.7	1.5	33.9	23	2.2	1	3	0	10.6	65	82	-18	23	14	10	0	0	0.8	15	17.9	SW	20	9	8	14	6.0	46
PEORIA	199	989.8	1013.7	24.5	11.7	18.1	1.7	33.3	23+	2.8	1	2	0	11.7	70	132	34	38	13	11	0	0	0.6	14	17.9	S	19	7	7	17	6.3	57
ROCKFORD	221	986.8	1013.7	23.4	10.3	16.9	2.0	35.0	19	1.7	13+	2	0	8.9	62	77	-21	27	16	7	0	0	0.3	14	10.7	16	24+	6	10	15	6.5	
SPRINGFIELD	179	991.5	1013.3	25.2	13.1	19.2	1.7	32.8	23+	6.1	1	3	0	12.8	69	150	60	63	11	10	0	0	1.0	17	15.2	SW	19	8	5	18	6.4	73
INDIANA																																
EVANSVILLE	116	1000.3	1014.2	26.8	14.9	20.9	2.2	35.0	23	7.2	2	8	0	15.0	71	92	-19	30	8	4	0	0	0.5	21	21.9	SW	25	9	10	12	5.9	73
FORT WAYNE	241	984.8	1014.4	23.3	11.1	17.2	1.8	32.8	20	5.0	2	1	0	11.1	70	70	-27	40	13	6	0	0	0.5	22	20.1	W	25	5	12	14	6.6	75

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground) m	Pressure: Station mb	Pressure: Sea level mb	Temperature: Average maximum C	Temperature: Average minimum C	Temperature: Average C	Temperature: Departure from normal C	Temperature: Highest C	Temperature: Date	Temperature: Lowest C	Temperature: Date	Temperature: No of days: Max 32.2 °C or above	Temperature: No of days: Min 0 C or lower	Temperature: Average dew point C	Average relative humidity %	Precipitation: Total mm	Precipitation: Departure from normal mm	Precipitation: Greatest in 24 hours mm	Precipitation: No of days: 25 mm or more	Precipitation: No of days: With thunderstorms	Precipitation: Snow, Ice pellets: Total mm	Precipitation: Snow, Ice pellets: Maximum depth on ground mm	Wind: Resultant speed m/s	Wind: Resultant direction	Wind: Fastest mile (1.6 kilometers): Speed m/s	Wind: Fastest mile: Direction	Wind: Fastest mile: Date	No of days (sunrise to sunset): Clear, 0-3	No of days: Partly cloudy 4-7	No of days: Cloudy 8-10	Sky cover tenths (sunrise to sunset)	Possible sunshine %
INDIANA																																
INDIANAPOLIS	241	985.4	1014.3	24.7	12.4	18.6	1.8	31.1	24+	5.6	13+	0	0	12.8	72	61	-42	20	10	6	0	0	0.5	22	21.9	W	26	7	10	14	6.4	68
SOUTH BEND	236	985.8	1013.6	23.5	11.1	17.3	2.7	32.8	20+	3.9	13	2	0	10.6	68	53	-28	18	13	6	0	0	0.5	24	16.5	22	25	7	8	16	6.4	
IOWA																																
BURLINGTON	211			24.2	12.4	18.3	1.8	31.7	23+	3.3	1	0	0	12.2	71	71	-20	23	12	9	0	0	0.8	19	10.3	21	20+	8	12	11	6.0	
DES MOINES	286	978.3	1012.5	24.9	12.7	18.8	2.8	33.9	19	3.9	1	4	0	10.6	63	87	-20	32	10	6	0	0	1.3	17	14.3	SW	19	8	9	14	6.2	60
DUBUQUE	322	974.9		22.1	10.9	16.6	2.1	31.1	23	0.6	1	0	0			71	-48	33	9		0	0										
SIOUX CITY	334	972.2	1011.7	25.0	11.2	18.1	2.1	34.4	19	0.6	1	3	0	8.9	59	68	-22	45	9	4	0	0	1.3	14	17.0	SE	6	9	7	15	5.9	69
WATERLOO	265	981.4	1013.0	23.8	10.8	17.3	2.4	33.9	19	3.3	13+	3	0	10.6	66	49	-57	19	9	3	0	0	1.2	15	11.6	12	7	5	12	14	6.8	
KANSAS																																
CONCORDIA	448	958.7	1010.9	24.9	10.9	17.9	0.8	33.3	21+	2.8	1	2	0	10.6	64	67	-41	39	9	6	0	0	2.4	16	16.1	SE	22	12	7	12	5.5	83
DODGE CITY	787	920.8	1010.2	25.3	11.0	18.2	0.4	33.3	19+	5.0	7	3	0	7.8	58	100	21	21	13	11	0	0	2.5	18	17.9	SW	22	17	3	11	4.5	79
GOODLAND	1114	884.2	1009.7	22.5	6.2	14.3	-0.6	30.6	19	-1.1	8	0	3	3.9	59	121	56	81	9	7	0	0	1.1	17	15.6	32	13+	12	10	9	4.9	
TOPEKA	267	980.7	1012.0	26.7	12.8	19.6	1.5	36.1	20	4.4	1	4	0	12.8	69	99	-3	37	12	11	0	0	1.7	16	14.3	S	20	7	10	14	6.1	65
WICHITA	403	964.4	1011.6	24.1	11.4	17.8	-1.2	29.4	21	3.3	1	0	0	12.8	73	218	127	60	13	13	0	0	2.3	18	14.8	SE	22	6	12	13	6.6	61
KENTUCKY																																
COVINGTON	265	983.1	1014.2	26.1	13.5	19.8	2.4	33.3	24	5.0	2	3	0	11.7	64	79	-16	32	9	6	0	0	0.6	24	13.0	35	6	5	12	14	6.8	
LEXINGTON	294	979.7	1014.7	25.4	13.9	19.7	1.5	31.1	25+	6.1	5	0	0	13.9	71	68	-37	16	14	9	0	0	0.6	19	8.9	30	3	7	12	12	6.4	
LOUISVILLE	145	996.3	1013.6	26.2	14.8	20.6	2.3	33.2	23	7.2	2	1	0	13.9	68	114	8	34	13	11	0	0	0.8	18	13.9	SW	26	6	10	15	6.7	61
LOUISIANA																																
ALEXANDRIA	28	1008.8	1012.9	29.6	17.8	23.7	1.3	[illegible]	21	15.0	17+	10	0	19.4	82	283	141	88	14	12	0	0	0.8	14	15.6	17	19	6	7	18	6.9	
BATON ROUGE	20	1010.8	1013.5	29.2	18.9	24.1	0.3	32.2	26+	16.7	18+	4	0	18.9	78	139	28	53	11	9	0	0	1.1	13	13.0	22	8	2	12	17	7.1	
LAKE CHARLES	3	1011.5	1012.6	28.7	19.9	24.3	0.3	31.7	27	16.1	17	0	0	20.6	84	179	50	89	10	11	0	0	2.1	13	17.0	23	7	4	11	16	6.9	
NEW ORLEANS	1	1012.5	1013.1	29.1	18.8	23.9	0.0	34.4	27	15.0	18	1	0	20.6	84	204	97	92	8	6	0	0	1.3	15	17.9	21	8	4	12	15	6.9	52
SHREVEPORT	77	1003.4	1012.6	27.7	17.0	22.4	-0.6	31.1	27+	14.4	18+	0	0	17.8	79	135	7	43	12	11	0	0	0.9	13	11.2	36	9	6	5	20	7.3	56
MAINE																																
CARIBOU	190	990.2		16.1	[illegible]	12.1	2.2	26.7	18	-1.7	10	0	2			77	2	35	14		0	T						4	8	19	7.4	
PORTLAND	13	1012.9	1015.2	18.3	7.9	13.1	1.6	26.7	20	1.7	1	0	0	8.3	78	28	-57	11	7	2	0	0	1.1	17	12.5	SW	12	6	9	16	5.4	51
MARYLAND																																
BALTIMORE	45	1009.8	1015.3	24.5	13.4	19.1	1.4	33.2	21	5.6	6	1	0	13.3	74	118	26	35	11	7	0	0	0.4	15	14.3	NW	13	6	12	17	7.3	49
MASSACHUSETTS																																
BLUE HILL OBSY	192			21.7	9.4	15.6	1.9	32.8	20	3.9	4	1	0			83	-9	52	7		[illegible]	0			16.1	12	5					54
BOSTON	5	1014.5	1015.4	21.6	11.1	16.4	1.6	31.2	[illegible]	6.1	5	1	0	8.9	67	45	-43	23	8	1	[illegible]	0	1.0	17	12.5	S	12	5	10	16	6.4	64
WORCESTER	301	978.7		21.7	9.4	15.6	2.4	31.1	21	2.8	5	1	0	7.8	65	53	-48	23	10	4	[illegible]	0	1.1	27	9.4	32	28	5	10	16	6.9	
MICHIGAN																																
ALPENA	210	985.5	[illegible]	21.2	6.6	14.4	4.2	33.3	20	-2.2	13	1	2	7.8	67	113	44	26	13	5	[illegible]	0	0.5	18	14.3	[illegible]	[illegible]	11	8	12	[illegible]	61
DETROIT	189			24.4	13.4	18.9	4.3	32.8	25+	5.6	7	2	0							5			0.3	23	11.2	16	10					
DETROIT METRO	193	989.8	1013.8	23.1	[illegible]	17.1	2.6	[illegible]	25+	4.4	2	1	[illegible]	[illegible]	67	72	-12	[illegible]	14	5	[illegible]	0	0.7	25	[illegible]	[illegible]	[illegible]	5	10	13	[illegible]	[illegible]
FLINT	235	985.8	1013.5	[illegible]	[illegible]	[illegible]	3.3	[illegible]	21+	3.9	13	[illegible]	[illegible]	[illegible]	68	94	15	34	12	4	[illegible]	0	[illegible]	22	[illegible]	[illegible]	[illegible]	6	8	15	[illegible]	
GRAND RAPIDS	239	985.1	1013.9	22.6	9.3	15.9	2.0	[illegible]	[illegible]	2.8	2	1	0	10.0	71	53	-28	[illegible]	11	4	[illegible]	0	0.8	23	[illegible]	SW	[illegible]	7	8	15	6.2	55
HOUGHTON LAKE	350	972.2	1013.9	22.3	8.4	15.4	3.8	32.6	[illegible]	0.6	13	0	0	7.8	66	71	[illegible]	[illegible]	15	6	[illegible]	0	0.8	24	9.4	[illegible]	[illegible]	9	7	15	5.8	
LANSING	256	982.4	[illegible]	23.4	[illegible]	16.3	2.5	31.7	[illegible]	2.2	13	0	0	11.1	73	75	-9	24	12	4	[illegible]	[illegible]	0.8	21	17.4	[illegible]	10	7	6	15	6.2	[illegible]
MARQUETTE	436			17.7	7.4	12.6	2.7	27.8	21	2.2	16+	0	0			[illegible]	15	[illegible]	9		[illegible]	0			17.0	[illegible]	9	7	[illegible]	15	6.3	64
MUSKEGON	191	991.2	1014.8	21.2	9.3	15.3	2.3	[illegible]	19	3.9	13	0	0	8.3	66	67	-2	28	11	7	[illegible]	[illegible]	1.1	22	15.6	16	[illegible]	[illegible]	6	15	[illegible]	
SAULT STE MARIE	220	987.1	1013.7	[illegible]	5.7	13.4	4.0	31.7	[illegible]	[illegible]	13+	0	2	8.9	[illegible]	[illegible]	26	26	[illegible]	3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10	7	5	14	[illegible]	[illegible]
MINNESOTA																																
DULUTH	435	962.4	1013.8	17.9	5.7	11.8	2.2	27.2	21	-2.6	12	0	3	4.4	64	37	-50	8	[illegible]	4	T	T	[illegible]	7	[illegible]	[illegible]	14	5	10	16	5.6	[illegible]
INTERNATIONAL FALLS	359	964.9	1012.8	[illegible]	[illegible]	[illegible]	2.8	31.7	[illegible]	-2.2	11+	0	3	5.0	63	35	-35	[illegible]	[illegible]	3	[illegible]	T	[illegible]	22	9.8	18	5	[illegible]	4	11	5.7	
MINNEAPOLIS	254	982.7	[illegible]	[illegible]	[illegible]	[illegible]	2.1	[illegible]	[illegible]	0.5	1	1	[illegible]	7.8	60	97	11	[illegible]	[illegible]	7	[illegible]	[illegible]	0.9	13	[illegible]	[illegible]	13	2	13	16	6.2	58
ROCHESTER	395	[illegible]	1013.5	22.2	6.7	[illegible]	2.5	32.2	19	1.1	1	[illegible]	[illegible]	8.9	67	59	-18	19	10	6	[illegible]	[illegible]	1.3	16	13.4	[illegible]	19+	6	9	16	6.6	
ST CLOUD	313	[illegible]	1013.4	22.2	7.8	14.9	2.1	31.7	[illegible]	-1.7	2	0	1			77	-15	19	[illegible]		[illegible]	0						4	10	18	6.3	
MISSISSIPPI																																
JACKSON	94	[illegible]	[illegible]	28.7	18.0	23.4	0.8	33.9	24	13.9	11+	5	0	18.9	[illegible]	155	55	42	15	14	0	[illegible]	0.9	15	16.1	[illegible]	19	5	14	11	6.5	[illegible]

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation ground	Pressure		Temperature											Average relative humidity	Precipitation							Wind						No of days (sunrise to sunset)			Sky cover, tenths (sunrise to sunset)	Possible sunshine
												No of days							No of days		Snow, Ice pellets				Fastest mile (1 6 kilometers)							
		Station	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32 2 °C or above	Min 0 C or lower	Average dew point		Total	Departure from normal	Greatest in 24 hours	25 mm or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy 8 10		
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m s		m s							%
MISSISSIPPI																																
MERIDIAN	88	1003.1	1013.9	29.9	18.7	24.3	1.8	33.3	26+	12.8	1	7	0	18.3	73	130	33	29	12	10	0	0	0.4	20	14.8	15	29	4	12	15	6.8	
MISSOURI																																
COLUMBIA REGIONAL	270	981.4	1013.5	23.9	12.7	18.3	0.3	29.4	23+	5.0	1	0	0	12.2	69	102	-17	38	10	10	0	0	1.1	15	21.0	SW	10	9	6	16	5.9	71
KANSAS CITY	309	975.6	1011.6	25.1	13.9	19.5	1.2	32.8	19	6.1	1	1	0	13.3	70	88	-21	51	9	8	0	0	1.5	17	15.2	S	7	11	9	11	5.4	67
ST JOSEPH	247			26.9	13.1	20.0	1.8	35.0	19	4.4	1	5	0			162	44		11		0							7	14	10	5.6	
ST LOUIS	163	993.6	1013.6	25.8	13.7	19.8	1.0	32.8	23+	5.0	1	3	0	15.0	76	82	-16	16	12	10	0	0	0.9	18	17.9	W	30+	9	8	14	5.7	68
SPRINGFIELD	386	968.2	1013.0	25.9	12.4	19.2	0.8	31.1	22+	2.8	1	0	0	13.3	71	50	-75	18	6	6	0	0	1.7	17	20.1	S	10	10	10	11	5.7	73
MONTANA																																
BILLINGS	1087	888.5	1012.4	16.8	4.6	10.7	-1.8	29.4	15	-1.1	1	0	1	1.1	57	92	39	25	15	4	28	0	1.7	29	15.6	NW	16	3	9	19	7.4	53
GLASGOW	696	930.6	1012.1	17.6	5.4	11.6	-0.8	28.9	15	0.0	1	0	1	4.4	67	49	16	32	11	7	T	0	0.9	8	17.0	9	7+	3	11	17	7.4	
GREAT FALLS	1116	886.2	1013.8	15.9	4.0	10.0	-1.8	27.8	15	-1.1	26	0	9	1.7	62	99	39	32	14	3	142	T	3.1	25	16.1	SW	16	1	10	20	7.7	53
HAVRE	788	920.4	1011.9	18.2	5.4	11.8	-0.9	28.9	15	0.0	2+	0	2	3.3	61	44	7	32	11	5	T	0	0.8	29	17.4	W	24	2	12	17	7.6	71
HELENA	1167	879.4	1014.6	15.3	3.1	9.2	-2.0	25.6	14	-3.9	1	0	3	0.0	57	50	5	15	14	5	5	0	2.4	28	25.0	SW	15	0	11	20	8.1	49
KALISPELL	904	910.3	1014.9	17.0	3.0	10.0	-0.5	26.7	14	-2.8	25	0	9	1.1	57	25	-21	8	11	0	53	T	0.8	17	10.3	21	18	5	8	18	7.1	
MILES CITY	801	918.7	1011.3	18.6	6.2	12.4	-1.1	30.6	15	0.6	2	0	0	5.6	68	121	69		17	5	T		1.3	35								
MISSOULA	972	903.5	1015.8	16.4	2.7	9.6	-1.7	28.9	14	-2.8	1	0	5	3.3	69	34	-8	11	10	3	T	0	1.6	32	14.8	NW	3	4	8	19	7.5	45
NEBRASKA																																
GRAND ISLAND	561	945.8	1011.1	24.3	9.3	16.8	0.8	34.4	19	1.7	8+	3	0	8.3	62	38	-58	17	10	8	0	0	1.7	18	12.5	18	24	11	11	9	5.1	
LINCOLN	359	969.2	1011.4	24.7	10.1	17.4	0.8	32.8	19	0.6	1	2	0	11.7	72	66	-23	28	13	7	0	0	1.0	17	16.5	SW	22	9	11	11	5.5	72
NORFOLK	471			24.6	10.4	17.5	1.9	33.9	19	1.7	1	2	0			65	-29	17	10		0	0						7	15	9	5.6	
NORTH PLATTE	846	914.0	1010.9	22.3	5.5	13.9	-0.7	29.4	19+	-1.7	1	0	3	6.1	62	54	-29	21	9	3	0	0	0.7	10	14.8	SE	6	10	12	9	5.7	67
OMAHA	298	976.6	1011.4	26.0	11.9	19.0	1.8	34.4	22	2.2	1	3	0	11.7	66	94	-10	36	14	10	0	0	1.4	18	15.6	SE	6	9	10	12	5.6	69
SCOTTSBLUFF	1206	876.1	1010.7	20.9	6.3	13.6	0.0	31.1	16	1.1	26	0	0	2.2	53	57	-14	20	9	4	T	T	0.8	33	18.3	20	5	5	10	16	6.6	
VALENTINE	789			22.1	6.7	14.4	0.6	31.1	19	-0.6	1	0	2			19	-52	11	4		0	0			16.1	SW	27	10	8	13	5.9	76
NEVADA																																
ELKO	1539	842.9	1013.0	18.8	2.3	10.6	-0.5	28.9	14	-3.3	25+	0	8	-1.7	48	25	-1	17	7	2	203	203	0.9	27	11.2	25	24+	11	7	13	5.7	
ELY	1906	807.0	1011.8	17.8	-0.6	8.6	-1.4	26.1	14	-7.8	5	0	20	-2.2	53	38	14	22	7	2	307	127	0.7	25	16.1	S	4	9	9	13	5.8	71
LAS VEGAS	659	934.3	1009.7	30.1	14.8	22.5	-0.4	37.8	31	5.6	21	14	0	-2.8	21	9	6	9	2	1	0	0	0.8	27	19.2	SW	4	20	7	4	2.7	87
RENO	1342	864.9	1013.4	23.1	1.6	12.3	-0.2	33.3	31	-2.8	5	1	9	-1.1	41	5	-11	4	4	0	56	25	1.4	30	18.8	NW	19	18	3	10	4.1	98
WINNEMUCCA	1311	866.9	1013.2	21.8	2.4	12.1	0.0	31.1	31	-3.3	12	0	10	-3.9	35	17	-6	16	4	1	109	25	1.5	33	13.4	NW	3	12	7	12	5.3	76
NEW HAMPSHIRE																																
CONCORD	104	1002.4	1015.0	25.1	7.5	16.3	3.4	35.6	20	-1.1	9	4	1	9.4	68	31	-46	11	8	3	0	0	0.4	15	9.6	W	28	9	8	14	6.3	70
MT WASHINGTON OBS	1909			7.8	1.4	4.6	3.3	16.7	23	-6.7	5	0	12			110	-39	43	13	3	43	330			40.2Y	W	28	2	10	19	7.7	41
NEW JERSEY																																
ATLANTIC CITY	20	1013.2	1015.6	22.6	12.1	17.4	0.9	30.0	20	2.8	3	0	0	14.4	65	138	48	50	11	4	0	0	1.3	18	10.3	30	13+	3	10	18	7.1	52
ATLANTIC CITY U	3			19.4	13.1	16.3	0.9	29.4	27	5.0	3	0	0			69	-8	24	11						10.3	WNW	27+					
NEWARK	2	1014.2	1015.2	23.7	13.8	18.8	2.2	32.8	24	6.1	3	1	0	11.7	67	83	-8	24	15	5	0	0	1.0	15	8.0	27	27+	6	9	16	6.8	
TRENTON U	17			24.2	13.1	18.7	1.9	32.8	24	6.1	3	1	0			125	39	44	13		0	0			11.2	NE	25+	6	9	16	6.7	48
NEW MEXICO																																
ALBUQUERQUE	1619	835.1	1009.2	24.9	7.3	16.1	-2.4	29.4	26+	-2.2	7	0	2	-3.9	30	17	3	7	3	3	0	0	1.2	23	16.1	E	26	19	7	5	3.4	84
CLAYTON	1515			23.3	6.3	14.8	-0.7	29.4	25	-1.7	7	0	1			45	-22	29	6		0	0						16	7	8	4.2	
ROSWELL	1112	886.6	1008.5	28.0	9.6	18.8	-1.4	32.8	25	1.1	7	1	0	2.8	39	3	-22	2	2	3	0	0	1.7	21	16.5	W	22	20	8	3	2.7	83
NEW YORK																																
ALBANY	84	1004.4	1015.1	23.6	9.6	16.6	2.3	31.1	23	1.1	3	0	0	8.9	65	75	-8	18	13	3	0	0	1.7	19	10.7	NW	16	6	12	13	6.2	66
BINGHAMTON	485	957.0	1015.4	21.8	11.5	16.7	3.8	30.6	24	4.4	6	0	0	10.6	72	112	15	29	12	5	0	0	1.0	22	9.4	NW	2	6	11	14	6.4	59
BUFFALO	215	988.5	1014.1	22.0	11.4	16.7	3.9	30.6	22	2.2	7	0	0	10.0	69	84	9	17	10	5	0	0	2.1	21	13.0	SW	21	7	8	16	6.6	65
NEW YORK U	40	1011.9	1014.9	24.0	13.6	18.8	1.9	33.9	24	7.2	5+	1	0	11.1	68	86	-2	27	11	3	0	0	0.8	15	8.5	ENE	24					55
NEW YORK KENNEDY	4	1014.9	1015.7	20.7	12.9	16.8	1.4	29.4	27	7.8	3	0	0	11.7	77	89	-1	31	12	5	0	0	2.1	17	11.6	7	25+	6	12	13	6.3	
NEW YORK LA GUARDIA	3	1014.2	1015.4	22.3	13.5	17.9	1.4	32.2	24	7.8	3	1	0	10.6	65	96	11	44	10	3	0	0	1.0	14	13.4	NE	24	7	9	15	6.5	
ROCHESTER	167	994.2	1014.1	23.4	11.2	17.3	3.7	30.6	23	3.3	8+	0	0	10.0	66	72	1	18	8	4	0	0	1.3	23	11.2	W	27	8	10	13	6.0	64
SYRACUSE	125	999.3	1014.3	24.1	10.3	17.2	3.4	32.2	23	3.3	8+	1	0	10.0	66	70	-7	19	11	3	0	0	0.4	21	14.3	SW	26	7	13	11	5.9	59
NORTH CAROLINA																																
ASHEVILLE	652	940.4	1015.7	24.9	12.8	18.9	1.3	30.6	25	4.4	6	0	0	14.4	82	208	123	54	13	11	0	0	0.2	34	15.6	34	12	3	11	17	7.2	54

CLIMATOLOGICAL DATA

METRIC UNITS

State and station	Elevation m	Pressure: Station mb	Pressure: Sea level mb	Temperature: Average maximum °C	Average minimum °C	Average °C	Departure from normal °C	Highest °C	Date	Lowest °C	Date	No. of days: Max 32.2 °C or above	Min 0 °C or lower	Average dew point °C	Average relative humidity %	Precipitation: Total mm	Departure from normal mm	Greatest in 24 hours mm	No. of days: .25 mm or more	With thunderstorms	Snow, ice pellets: Total mm	Maximum depth on ground mm	Wind: Resultant speed m/s	Resultant direction	Fastest mile: Speed m/s	Direction	Date	No. of days: Clear	Partly cloudy	Cloudy	Sky cover tenths	Possible sunshine %
[illegible]																																
[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	84	[illegible]	[illegible]	25	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	224	984.2	[illegible]	[illegible]	[illegible]	[illegible]	.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16.7	78	[illegible]	243	[illegible]	[illegible]	14		[illegible]	[illegible]	[illegible]	13.[illegible]	[illegible]	[illegible]	3	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	989.7	[illegible]	[illegible]	[illegible]	[illegible]	1.1	[illegible]	[illegible]	7.8	[illegible]	[illegible]	[illegible]	[illegible]	82	154	81	[illegible]	15	12		[illegible]	[illegible]	17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	132	994.3	[illegible]	[illegible]	[illegible]	[illegible]	0.4	[illegible]	[illegible]	5.7	[illegible]	[illegible]	[illegible]	[illegible]	81	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.4	35.5	[illegible]	[illegible]	11	5	[illegible]	[illegible]	78	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	13.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]	[illegible]	[illegible]	[illegible]	18.6	5.7	[illegible]	[illegible]	[illegible]	[illegible]	-1.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	45	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2	[illegible]	[illegible]	37	[illegible]	[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	844.1	[illegible]	[illegible]	5.7	11.0	[illegible]	[illegible]	[illegible]	-2.8	1	[illegible]	[illegible]	[illegible]	64	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	E	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.5	[illegible]	[illegible]	3.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-8	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]			25.6	[illegible]	[illegible]	2.4	[illegible]	[illegible]	6.7	[illegible]	[illegible]	[illegible]			43	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	82	-7	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	72	81	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.4	[illegible]	[illegible]	5.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	48	[illegible]	14	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]			22.2	[illegible]	[illegible]	1.2	[illegible]	25+	2.3	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	8.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	21.7	[illegible]	[illegible]	2.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]																																
[illegible]	392	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.5	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	72	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	25.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6.7	1	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	11.6	[illegible]	[illegible]	[illegible]	2.8	25+	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-8	[illegible]	[illegible]	[illegible]	T	[illegible]	[illegible]	[illegible]	[illegible]	21	[illegible]	[illegible]	[illegible]	[illegible]	7.2	
[illegible]	1265			18.2	[illegible]	[illegible]	[illegible]	26.7	31+	[illegible]	25	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	2	[illegible]	T	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			55	[illegible]	[illegible]	[illegible]	[illegible]	T	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31	[illegible]	[illegible]	[illegible]	2	[illegible]	56	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	482	[illegible]	[illegible]	22.1	8.7	[illegible]	.4	[illegible]	31	1.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]	26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14.2	.4	31.1	[illegible]	2.6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12.4	[illegible]	[illegible]	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	42	[illegible]	25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.8	[illegible]	[illegible]	[illegible]	-2.2	[illegible]	[illegible]	7			[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]			[illegible]	[illegible]						
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[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18.3	[illegible]	[illegible]	[illegible]			34	[illegible]	[illegible]	[illegible]			[illegible]			[illegible]	E	[illegible]					[illegible]
[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	E	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	-14	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	11.6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	2	[illegible]		29.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	22.8	[illegible]	[illegible]	0			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]		29.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.3	[illegible]	[illegible]	1.7	[illegible]	[illegible]	[illegible]	[illegible]	82	454	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]	2	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	65	[illegible]	[illegible]	2		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]	13	[illegible]		[illegible]	23.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17.8	2.2	[illegible]	[illegible]	5.5	8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-32	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.9	[illegible]	[illegible]	6.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	13	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.5	[illegible]	[illegible]	[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	37	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]	[illegible]	15.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure: Station	Pressure: Sea level	Temperature: Average maximum	Temperature: Average minimum	Temperature: Average	Temperature: Departure from normal	Temperature: Highest	Temperature: Date	Temperature: Lowest	Temperature: Date	Temperature: No of days: Max 32.2 °C or above	Temperature: No of days: Min 0 C or lower	Average dew point	Average relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	Precipitation: No of days: 25 mm or more	Precipitation: No of days: With thunderstorms	Snow, Ice pellets: Total	Snow, Ice pellets: Maximum depth on ground	Wind: Resultant speed	Wind: Resultant direction	Wind: Fastest mile (1.6 kilometers): Speed	Wind: Fastest mile (1.6 kilometers): Direction	Wind: Fastest mile (1.6 kilometers): Date	No of days (sunrise to sunset): Clear, 0-3	No of days (sunrise to sunset): Partly cloudy, 4-7	No of days (sunrise to sunset): Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m s		m s							%
SOUTH CAROLINA																																
CHARLESTON J	3			28.1	20.6	24.3	1.3	33.9	25+	16.7	11+	3	0			101	18	52	13		0	0			13.0	N	3					
COLUMBIA	65	1006.8	1014.7	29.8	17.7	23.8	1.5	35.6	24	10.6	5	7	0	18.3	77	200	115	44	15	14	0	0	0.2	19	16.5	2	10	6	8	17	6.8	71
GRNVILLE-SPRTNBRG	292	980.7	1014.7	26.9	15.8	21.4	0.8	32.8	25+	8.3	5	3	0	16.1	76	198	123	59	17	13	0	0	0.2	19	11.6	SW	16	4	13	14	6.9	61
SOUTH DAKOTA																																
ABERDEEN	395	965.1	1011.6	22.3	8.5	15.4	2.3	30.6	16	0.0	3+	0	2	7.8	64	57	-8	24	10	7	0	0	1.1	7	19.2	10	6	8	10	13	6.1	
HURON	390	965.1	1011.2	22.9	7.0	15.0	1.1	30.0	19	0.6	3+	0	0	7.8	65	50	-20	21	8	3	0	0	0.9	11	18.8	SW	22	10	12	9	5.5	69
RAPID CITY	964	901.5	1011.6	19.4	5.0	12.2	-0.7	30.6	16	0.0	1	0	1	3.9	62	31	-40	15	15	6	0	0	1.4	35	19.2	NW	24	7	11	13	6.5	56
SIOUX FALLS	432	961.1	1011.9	23.9	8.4	16.2	1.9	33.9	20	-1.7	1	2	2	8.3	63	42	-43	13	12	8	0	0	0.9	13	17.9	23	22	8	12	11	6.0	
TENNESSEE																																
BRISTOL	459	961.4	1014.9	25.0	14.0	19.5	1.2	30.0	25	7.2	5	0	0	15.6	83	109	25	46	14	8	0	0	0.2	26	8.0	27	4	2	12	17	7.3	
CHATTANOOGA	203	989.8	1014.2	26.6	13.4	20.0	-0.3	31.7	25	5.6	5	0	0	15.6	80	113	26	32	10	9	0	0	0.4	22	13.4	NW	9	4	13	14	7.0	55
KNOXVILLE	299	980.4	1014.7	26.7	15.6	21.2	0.9	32.2	25	7.2	5	1	0	16.7	79	76	-8	22	12	7	0	0	0.5	31	8.9	28	6	4	11	16	6.8	76
MEMPHIS	79	1003.4	1013.6	27.8	18.3	23.1	1.4	32.8	25+	11.7	2	3	0	16.7	71	221	110	56	11	8	0	0	1.2	16	12.5	3	11	5	11	15	6.6	68
NASHVILLE	180	992.2	1013.8	26.6	16.1	21.3	1.1	30.6	26+	10.0	5+	0	0	16.7	77	166	61	76	11	7	0	0	0.7	19	15.2	SE	14	3	14	14	6.8	60
OAK RIDGE R	276															102	13	27	15		0	0			13.0Y		12	5	8	18	7.3	
TEXAS																																
ABILENE	544	948.9	1010.4	27.5	14.9	21.2	-1.2	32.2	21	8.9	16	[illegible]	0	13.9	67	113	14	30	12	12	0	0	2.9	16	18.3	SE	2	9	13	9	4.9	62
AMARILLO	1098	887.6	1009.1	26.1	10.1	18.1	-0.6	31.1	25+	2.8	7	0	0	5.6	53	63	-9	28	9	9	0	0	2.6	20	15.6	22	5	17	9	5	3.8	77
AUSTIN	182	989.5	1011.1	28.0	18.3	23.2	-0.8	31.1	26+	14.4	31+	0	0	18.9	80	207	106	124	13	15	0	0	1.1	13	17.9	E	23	4	12	15	6.9	46
BROWNSVILLE	6	1009.1	1009.7	32.1	23.2	27.7	1.4	34.4	14+	17.2	16	21	0	22.2	76	56	-7	23	8	7	0	0	4.2	13	18.8	SE	25	5	12	14	6.5	63
CORPUS CHRISTI	12	1008.8	1010.3	31.4	22.5	26.9	1.4	35.0	25	16.1	16+	7	0	22.8	81	42	-38	20	8	7	0	0	3.8	12	21.9	SE	24	5	8	18	7.2	53
DALLAS - FORT WORTH	168	990.9	1011.7	27.7	17.1	22.4	-0.1	32.2	27+	10.6	1	2	0	17.2	74	175	61	37	14	10	0	0	1.3	16	15.6	30	13	7	10	14	6.3	
DEL RIO	313	973.6	1008.9	30.6	18.7	24.7	-1.0	35.6	29	13.3	31	11	0	17.2	69	55	-6	15	11	13	0	0	3.0	10	14.8	23	19	6	11	14	6.2	
EL PASO	1194	878.8	1008.1	30.9	11.1	21.0	-1.3	35.0	26+	3.3	8	15	0	-1.7	26	1	-7	1	2	3	0	0	1.3	24	13.4	25	20+	21	7	3	2.2	97
GALVESTON	2			27.4	22.5	25.0	0.6	30.0	9	18.3	15+	0	0			274	194	196	11		0	0			17.4	NW	8					57
HOUSTON INTERCON	29	1008.1	1011.9	29.8	18.9	24.4	0.1	32.2	27+	14.4	31+	4	0	20.0	80	192	63	62	12	10	0	0	2.0	11	13.4	14	9	5	9	17	6.8	46
LUBBOCK	992	900.4	1009.5	27.6	11.9	19.8	-0.5	32.2	21	5.6	8	1	0	7.2	50	70	-11	18	11	14	0	0	1.9	18	23.7	16	12	19	10	2	3.3	75
MIDLAND	869	912.6	1009.1	30.1	14.2	22.1	-0.3	35.6	21	10.0	15+	10	0	9.4	53	87	33	28	11	12	0	0	1.4	17	17.4	26	22	18	10	3	3.1	
PORT ARTHUR	5	1011.5		29.1	19.7	24.4	0.5	32.2	27	15.0	17	1	0	20.0		135	9	88	9	10	0	0	2.4	13	18.8	SE	9	4	8	19	7.0	48
SAN ANGELO	580	944.5	1010.0	28.3	15.8	22.1	-1.5	32.2	25+	9.4	1	2	0	14.4	65	134	65	65	13	11	0	0	2.3	17	16.5	18	19	12	13	6	4.5	
SAN ANTONIO	240	983.4	1010.9	27.7	18.4	23.1	-1.4	31.1	21+	13.3	31+	0	0	18.3	78	176	98	58	13	10	0	0	2.0	10	20.6	NE	8	4	10	17	7.3	27
VICTORIA	32	1007.1	1011.1	30.1	21.4	25.8	1.0	32.2	26+	16.1	16	2	0	21.1	80	171	70	57	8	7	0	0	2.1	13	28.2Y	NW	8	4	5	22	7.6	
WACO	153	993.9	1011.7	27.1	17.3	22.2	-1.4	31.1	21	12.8	31+	0	0	17.2	78	336	219	111	16	14	0	0	1.5	15	12.5	22	19	5	10	16	6.8	
WICHITA FALLS	303	974.9	1011.1	28.8	15.1	22.0	-0.4	33.9	18	8.9	1	7	0	14.4	67	245	129	145	11	12	0	0	1.8	16	15.6	9	29	10	12	9	4.9	
UTAH																																
MILFORD	1533	843.9		19.4	0.4	9.9	-3.7	29.4	14	-8.3	6	0	15			47	32	25	7		290	203			23.2	SW	4	14	6	11	4.9	68
SALT LAKE CITY	1286	869.3	1012.3	18.8	5.9	12.4	-2.2	28.9	15	0.0	25	0	1	2.2	54	66	28	22	10	1	191	76	0.8	20	14.8	SW	24	10	8	13	5.9	70
WENDOVER	1291	868.6	1012.8	19.8	7.3	13.6	-2.4	28.9	15	0.6	25	0	0	-1.1		21	4	12	10		20	T						9	9	13	6.1	
VERMONT																																
BURLINGTON	101	1002.0	1014.4	23.9	9.7	16.8	4.2	32.8	23+	1.1	1	2	0	8.9	62	30	-47	9	8	1	0	0	1.3	19	13.0	S	30+	5	13	13	6.6	65
VIRGINIA																																
LYNCHBURG	279			25.2	13.6	19.4	0.9	32.2	22+	7.8	11+	2	0			166	84	61	16		0	0			9.8	NW	4	7	10	14	6.5	60
NORFOLK	7	1014.2	1015.3	25.4	14.9	20.2	0.9	32.8	27	8.3	6+	1	0	15.0	75	86	1	33	8	4	0	0	0.8	9	12.5	32	4	7	10	14	6.5	58
RICHMOND	50	1008.8	1015.1	26.4	13.2	19.8	0.7	32.8	27	6.1	8+	1	0	13.9	73	66	-21	29	12	7	0	0	0.3	14	11.6	NW	13	3	12	16	7.1	59
ROANOKE	350	973.6	1015.2	24.6	13.7	19.2	1.2	31.7	24	6.7	3	0	0	13.3	74	169	81	48	14	10	0	0	0.2	23	12.5	33	31	2	13	16	7.3	
WALLOPS ISLAND	3			20.9	13.9	17.4	0.1	32.2	27	6.7	6	1	0			51	-34	14	12		0	0			23.2Y	NE	22					
WASHINGTON																																
OLYMPIA	59	1010.5		18.4	4.4	11.4	-0.8	27.8	31	-1.7	20	0	3			38	-9	21	9	0	T	0			13.0	19	3	8	6	17	6.8	
QUILLAYUTE	55	1010.8		15.9	5.7	10.8	0.2	28.3	31	0.0	20	0	1			144	25	71	18	0	0	0	1.0	24	10.7	SE	3	5	6	20	7.6	33
SEATTLE J	6			18.0	8.4	13.2	-0.4	28.3	9	3.9	24	0	0			38	-5	19	11		0	0			17.9Y	S	3					
SEATTLE-TACOMA	122	1001.7	1018.1	17.8	7.2	12.6	-0.2	27.2	31	2.8	24	0	0	5.6	67	29	-14	12	11	1	0	0	1.6	24	13.0	SW	18	9	8	14	6.2	72
SPOKANE	718	930.6	1014.2	17.9	5.1	11.5	-1.1	27.2	31+	-0.6	4	0	1	2.8	58	36	-1	20	8	2	T	0	2.4	20	18.8	SW	18	4	16	11	6.6	62
STAMPEDE PASS R	1206	879.4		8.6	1.0	4.8	-1.4	21.7	31	-4.4	24	0	14			140	34	33	17		318	3378						7	4	20	7.0	
WALLA WALLA J	289			21.7	8.9	15.3	-0.4	30.6	31	3.9	4	0	0			15	-25	6	7		0	0			13.0	SW	18	8	9	14	6.1	61
YAKIMA	321	977.0	1015.4	23.4	5.1	14.3	-0.1	31.7	31	-3.3	4	0	3	1.1	42	6	-8	3	6	1	0	0	2.1	31	14.8	29	23+	14	8	9	4.8	

CLIMATOLOGICAL DATA
METRIC UNITS

State and Station	Elevation (ground)	Pressure		Temperature								No of days			Average relative humidity	Precipitation			No of days		Snow, Ice pellets		Wind		Fastest mile (1.6 kilometers)			No of days (sunrise to sunset)			Sky cover tenths (sunrise to sunset)	Possible sunshine
		Station ⊘	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min 0 C or lower	Average dew point		Total	Departure from normal	Greatest in 24 hours	25 mm or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10		
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m s		m s							%
WEST INDIES																																
SAN JUAN P.R.	4	1013.5	1015.8	30.8	23.6	27.2	1.0	33.9	5	22.2	5+	5	0	19.4	64	26	-140	9	9	2	0	0	2.6	10	15.2	E	19	7	16	8	5.4	64
WEST VIRGINIA																																
BECKLEY	763	928.2	1015.1	22.2	11.8	17.0	2.3	29.3	21	5.0	14+	0	0	11.7	75	144	47	47	18	12	0	0	1.2	20	10.3	13	17+	1	12	18	7.9	
CHARLESTON	286	981.0		25.4	12.8	18.9	0.9	30.6	25+	3.3	8	0	0	12.8	72	164	75	42	16	16	0	0	0.7	25	13.0	30	12	3	9	19	7.3	
ELKINS	594	945.1		22.7	8.4	15.6	1.1	29.4	21	0.5	8	0	0			185	86	40	20		0	0						1	10	20	7.9	
HUNTINGTON	252	984.4	1014.2	26.0	14.1	20.1	2.0	31.7	25+	6.1	8	0	0	13.9	73	81	-16	26	12	10		0	0.4	24	6.7	32	12+	2	8	21	7.9	
PARKERSBURG	187			25.3	13.3	19.3	1.6	32.8	25	6.7	8	1	0			127	37	39	14		0	0			11.6	SE	29					
WISCONSIN																																
GREEN BAY	208	987.8	1013.2	22.1	9.1	15.6	3.1	30.6	19	2.8	16+	0	0	3.3	66	71	-8	38	10	4	0	0	0.4	24	13.0	SW	14	5	10	16	6.8	57
LA CROSSE	198	989.6	1014.2	22.7	10.9	16.8	1.8	33.3	23+	3.3	16	3	0	10.5	71	64	-30		16	6	0		0.6	16								
MADISON	262	982.4	1013.6	24.2	9.7	16.9	3.6	33.9	19	1.1	13	3	0	9.4	63	116	29	39	12	6	0	0	0.5	20	17.0	SW	19	4	13	14	6.9	63
MILWAUKEE	205	988.8	1014.0	19.2	8.7	13.9	1.6	33.3	19	1.7	13	1	0	8.9	74	51	-22	28	12	7	0	0	0.4	24	17.0	SW	20	7	8	16	6.8	60
WYOMING																																
CASPER	1627	834.4	1011.4	16.3	2.4	9.4	-2.1	27.3	14	-4.4	1	0	8	0.0	58	99	49	41	14	5	541	229	2.4	25	19.7	13	24	3	10	18	7.2	
CHEYENNE	1867	808.7	1010.5	15.7	2.6	9.1	-2.2	26.1	15	-5.0	1	0	4	-2.2	50	58	-6	31	9	6	2	25	2.1	31	17.4	W	6	4	11	16	6.4	69
LANDER	1696	826.3	1011.6	15.8	2.0	8.9	-2.6	27.2	16	-3.9	1	0	12	-1.1	55	113	47	41	15	1	861	457	0.7	23	14.8	SW	24	6	9	16	6.5	63
SHERIDAN	1208	876.1	1012.6	17.3	2.9	10.2	-1.6	28.4	15	-4.4	1	0	6	2.8	64	89	27	31	13		[illegible]	76	1.7	31	20.1	NW	24	3	9	19	7.4	49

HEATING DEGREE DAYS

(Base 65°F.)

MAY 1975

State and Station	Current season: This month	Current season: Period July through this month	Normals July through this month
ALABAMA			
BIRMINGHAM	[illegible]	2556	2844
HUNTSVILLE	3	[illegible]	[illegible]
MOBILE	[illegible]	1323	1684
MONTGOMERY	[illegible]	1968	2269
ALASKA			
ANCHORAGE	575	10514	[illegible]
ANNETTE	[illegible]	7131	6735
BARROW	[illegible]	[illegible]	19305
BARTER ISLAND	[illegible]	[illegible]	19067
BETHEL	[illegible]	[illegible]	12801
BETTLES	[illegible]	[illegible]	15655
BIG DELTA	[illegible]	13657	13441
COLD BAY	[illegible]	9493	9277
FAIRBANKS	[illegible]	[illegible]	14184
GULKANA	[illegible]	[illegible]	13605
HOMER	[illegible]	9883	[illegible]
JUNEAU	[illegible]	8419	8653
KING SALMON	785	12151	11153
KODIAK	[illegible]	[illegible]	8401
KOTZEBUE	[illegible]	15899	[illegible]
MCGRATH	[illegible]	14783	14202
NOME	[illegible]	[illegible]	13740
ST PAUL ISLAND	[illegible]	11396	10396
SUMMIT	840	13884	13888
TALKEETNA	638	11712	[illegible]
UNALAKLEET	[illegible]	[illegible]	13532
YAKUTAT	678	[illegible]	[illegible]
ARIZONA			
FLAGSTAFF	[illegible]	[illegible]	7103
PHOENIX	[illegible]	1563	1552
TUCSON	[illegible]	[illegible]	1752
WINSLOW	[illegible]	[illegible]	4719
YUMA	5	1157	1005
ARKANSAS			
FORT SMITH	[illegible]	3599	3336
LITTLE ROCK	5	[illegible]	3354
CALIFORNIA			
BAKERSFIELD	[illegible]	2147	2185
BISHOP	[illegible]	[illegible]	4275
BLUE CANYON	[illegible]	5530	5507
EUREKA	[illegible]	4536	[illegible]
FRESNO	[illegible]	[illegible]	2641
LONG BEACH	[illegible]	[illegible]	1583
LOS ANGELES	[illegible]	1559	1748
LOS ANGELES U	[illegible]	1483	1220
MT SHASTA	[illegible]	5927	[illegible]
OAKLAND	[illegible]	2556	[illegible]
RED BLUFF	[illegible]	[illegible]	[illegible]
SACRAMENTO	[illegible]	2970	[illegible]
SANDBERG	[illegible]	[illegible]	[illegible]
SAN DIEGO	[illegible]	1376	1455
SAN FRANCISCO	[illegible]	3169	[illegible]
SAN FRANCISCO U	[illegible]	3008	[illegible]
SANTA MARIA	[illegible]	3117	2886
STOCKTON	[illegible]	3059	[illegible]
COLORADO			
ALAMOSA	[illegible]	9199	[illegible]
COLORADO SPRINGS	[illegible]	6499	[illegible]
DENVER	[illegible]	[illegible]	5936
GRAND JUNCTION	[illegible]	6060	5585
PUEBLO	[illegible]	[illegible]	5366
CONNECTICUT			
BRIDGEPORT	[illegible]	5267	[illegible]
HARTFORD	[illegible]	[illegible]	[illegible]
DELAWARE			
WILMINGTON	[illegible]	[illegible]	[illegible]
DISTRICT OF COLUMBIA			
WASHINGTON DULLES	[illegible]	4982	[illegible]
WASHINGTON NATIONAL	[illegible]	3790	4211
FLORIDA			
APALACHICOLA	[illegible]	1015	1361
DAYTONA BEACH	[illegible]	568	897
FORT MYERS	[illegible]	146	457
JACKSONVILLE	[illegible]	1168	1327
KEY WEST	[illegible]	7	64
LAKELAND U	[illegible]	370	678
MIAMI	[illegible]	59	206
ORLANDO	[illegible]	387	733
PENSACOLA	[illegible]	1106	1578
TALLAHASSEE	[illegible]	1547	1563
TAMPA	[illegible]	391	718
WEST PALM BEACH	[illegible]	112	299
GEORGIA			
ATHENS	[illegible]	[illegible]	2975
ATLANTA	[illegible]	[illegible]	3095
AUGUSTA		2646	2547
COLUMBUS		2094	2378
MACON		[illegible]	2240
ROME		3786	3342
SAVANNAH		1537	1952
IDAHO			
BOISE	[illegible]	[illegible]	5736
LEWISTON	[illegible]	[illegible]	5380
POCATELLO	435	7222	6925
ILLINOIS			
CAIRO U	[illegible]	3834	3833
CHICAGO O'HARE	[illegible]	[illegible]	6452
CHICAGO MIDWAY	[illegible]	[illegible]	6101
MOLINE	[illegible]	6515	6375
PEORIA	[illegible]	6175	6081
ROCKFORD	[illegible]	6931	6810
SPRINGFIELD	[illegible]	[illegible]	5546
INDIANA			
EVANSVILLE	[illegible]	[illegible]	[illegible]
FORT WAYNE	135	6258	6186
INDIANAPOLIS	78	5566	5566
SOUTH BEND	[illegible]	[illegible]	6427
IOWA			
BURLINGTON	[illegible]	[illegible]	6133
DES MOINES	[illegible]	6576	6684
DUBUQUE	[illegible]	7509	7228
SIOUX CITY	[illegible]	7060	6920
WATERLOO	[illegible]	[illegible]	7376
KANSAS			
CONCORDIA	[illegible]	5667	5601
DODGE CITY	[illegible]	5028	5025
GOODLAND	226	[illegible]	6064
TOPEKA	[illegible]	[illegible]	5230
WICHITA	[illegible]	4916	4680
KENTUCKY			
COVINGTON	[illegible]	5064	5061
LEXINGTON	[illegible]	4598	4721
LOUISVILLE	22	4311	4640
LOUISIANA			
ALEXANDRIA	[illegible]	1865	2200
BATON ROUGE		[illegible]	1670
LAKE CHARLES		[illegible]	1498
NEW ORLEANS		1295	1465
SHREVEPORT		[illegible]	2167
MAINE			
CARIBOU	[illegible]	[illegible]	[illegible]
PORTLAND	[illegible]	7102	7392
MARYLAND			
BALTIMORE	[illegible]	[illegible]	[illegible]
MASSACHUSETTS			
BLUE HILL OBS R	[illegible]	6209	6281
BOSTON	[illegible]	[illegible]	5594
WORCESTER	[illegible]	[illegible]	[illegible]
MICHIGAN			
ALPENA	[illegible]	7947	[illegible]
DETROIT	[illegible]	5895	6202
DETROIT METRO	[illegible]	6559	6383
FLINT	[illegible]	[illegible]	6976
GRAND RAPIDS	191	7214	6757
HOUGHTON LAKE	[illegible]	7972	[illegible]
LANSING	[illegible]	6913	[illegible]
MARQUETTE U	[illegible]	7896	8186
MUSKEGON	[illegible]	[illegible]	6826
SAULT STE MARIE	[illegible]	8955	8993
MINNESOTA			
DULUTH	[illegible]	9879	[illegible]
INTERNATIONAL FALLS	[illegible]	10154	10379
MINNEAPOLIS	188	8216	8094
ROCHESTER	196	8346	8149
ST CLOUD	223	9087	8783
MISSISSIPPI			
JACKSON	[illegible]	[illegible]	2300
MERIDIAN	[illegible]	2167	2388
MISSOURI			
COLUMBIA REGIONAL	[illegible]	5428	5067
KANSAS CITY	42	5464	5149
ST JOSEPH	[illegible]	5580	5429
ST LOUIS	48	5050	4740
SPRINGFIELD	55	4729	4560
MONTANA			
BILLINGS	418	7601	7134
GLASGOW	373	8413	8818
GREAT FALLS	[illegible]	8016	7490
HAVRE	355	8345	8541
HELENA	501	8479	7996
KALISPELL	459	8275	[illegible]
MILES CITY	331	7748	7772
MISSOULA	483	7661	7730
NEBRASKA			
GRAND ISLAND	127	6755	[illegible]
LINCOLN	117	[illegible]	6196
NORFOLK	[illegible]	[illegible]	6944
NORTH PLATTE	247	[illegible]	6678
OMAHA	[illegible]	6412	6029
SCOTTSBLUFF	[illegible]	6822	6683
VALENTINE	[illegible]	7255	7227
NEVADA			
ELKO	427	[illegible]	7293
ELY	[illegible]	7787	[illegible]
LAS VEGAS	[illegible]	[illegible]	2601
RENO	[illegible]	[illegible]	5877
WINNEMUCCA	[illegible]	[illegible]	6480
NEW HAMPSHIRE			
CONCORD	[illegible]	[illegible]	[illegible]
MT WASHINGTON OBS	[illegible]	[illegible]	13269
NEW JERSEY			
ATLANTIC CITY	[illegible]	4915	4937
ATLANTIC CITY U	[illegible]	4880	4678
NEWARK	[illegible]	4805	5034
TRENTON U	[illegible]	4776	4947
NEW MEXICO			
ALBUQUERQUE	[illegible]	[illegible]	4292
CLAYTON	199	[illegible]	5169
ROSWELL	36	[illegible]	3697
NEW YORK			
ALBANY	145	7035	[illegible]
BINGHAMTON	147	7362	7210
BUFFALO	175	[illegible]	6869
NEW YORK U	[illegible]	[illegible]	4848
NEW YORK KENNEDY	[illegible]	[illegible]	5175
NEW YORK LA GUARDIA	[illegible]	4788	4909
ROCHESTER	139	6582	[illegible]
SYRACUSE	[illegible]	6620	[illegible]
NORTH CAROLINA			
ASHEVILLE	[illegible]	3995	[illegible]
CAPE HATTERAS	[illegible]	2410	[illegible]
CHARLOTTE	[illegible]	3250	3218
GREENSBORO	[illegible]	3600	3825
RALEIGH	[illegible]	3601	[illegible]
WILMINGTON	[illegible]	[illegible]	[illegible]
NORTH DAKOTA			
BISMARCK	[illegible]	[illegible]	[illegible]
FARGO	[illegible]	9139	9174
WILLISTON	[illegible]	[illegible]	[illegible]
OHIO			
AKRON	[illegible]	5871	6191
CINCINNATI ABBE OB	[illegible]	[illegible]	4837
CLEVELAND	[illegible]	6054	6114
COLUMBUS	[illegible]	5409	5689
DAYTON U	[illegible]	[illegible]	5628
MANSFIELD	[illegible]	[illegible]	5794
TOLEDO	[illegible]	6419	6349
YOUNGSTOWN	[illegible]	[illegible]	6384
OKLAHOMA			
OKLAHOMA CITY	[illegible]	[illegible]	3695
TULSA	[illegible]	3805	3680
OREGON			
ASTORIA	[illegible]	4805	5040
BURNS	[illegible]	7125	7007
EUGENE	[illegible]	[illegible]	4606
MEDFORD	[illegible]	4799	[illegible]
PENDLETON	[illegible]	4608	5170
PORTLAND	[illegible]	4278	[illegible]
SALEM	[illegible]	4607	[illegible]
SEXTON SUMMIT R	[illegible]	6439	6138
PENNSYLVANIA			
ALLENTOWN	[illegible]	5613	[illegible]
ERIE	[illegible]	[illegible]	6771
HARRISBURG	[illegible]	5334	5224
PHILADELPHIA	[illegible]	4590	[illegible]
PITTSBURGH	116	5666	5904
PITTSBURGH U	74	5331	5268
SCRANTON	88	5815	6249
WILLIAMSPORT	155	[illegible]	5958
RHODE ISLAND			
BLOCK ISLAND	280	5407	5689
PROVIDENCE	160	5745	5936
SOUTH CAROLINA			
CHARLESTON	0	1941	[illegible]
CHARLESTON U	0	1749	1904
COLUMBIA	0	2306	2598
GRNVLLE-SPRTNBRG	9	3209	3163
SOUTH DAKOTA			
ABERDEEN	184	8038	8524
HURON	195	7968	7983
RAPID CITY	343	7467	7190
SIOUX FALLS	157	7808	7773
TENNESSEE			
BRISTOL	29	[illegible]	4298
CHATTANOOGA	14	[illegible]	3505
KNOXVILLE	9	3427	3478
MEMPHIS	2	[illegible]	3227
NASHVILLE	6	3419	3696
OAK RIDGE			
TEXAS			
ABILENE	7	2833	2610
AMARILLO	[illegible]	4460	4173
AUSTIN	0	1718	1737
BROWNSVILLE	0	[illegible]	650
CORPUS CHRISTI	0	862	930
DALLAS FT WORTH	0	2342	2382
DEL RIO	0	1454	1523
EL PASO	13	2948	2678
GALVESTON	0	[illegible]	1224
HOUSTON INTERCON	0	1334	1434
LUBBOCK	[illegible]	3557	3545
MIDLAND	2	2548	2621
PORT ARTHUR	[illegible]	[illegible]	[illegible]
SAN ANGELO	[illegible]	2366	2240
SAN ANTONIO	0	1612	1570
VICTORIA	0	1004	[illegible]
WACO	0	2344	2058
WICHITA FALLS	[illegible]	3020	2904
UTAH			
MILFORD	464	[illegible]	6330
SALT LAKE CITY	334	5695	5895
WENDOVER	296	6064	5744
VERMONT			
BURLINGTON	152	7519	7813
VIRGINIA			
LYNCHBURG	45	4326	4233
NORFOLK	47	3285	3488
RICHMOND	44	4010	3939
ROANOKE	60	4316	4307
WALLOPS ISLAND	103	4202	4233
WASHINGTON			
OLYMPIA	377	[illegible]	5333
QUILLAYUTE	[illegible]	5518	5657
SEATTLE	279	[illegible]	4594
SEATTLE-TACOMA	317	4901	5018
SPOKANE	375	[illegible]	6691
STAMPEDE PASS R	748	8098	8926
WALLA WALLA	[illegible]	4692	4786
YAKIMA	[illegible]	[illegible]	[illegible]
WEST VIRGINIA			
BECKLEY	116	5471	5576
CHARLESTON	59	[illegible]	4580
ELKINS	174	[illegible]	5912
HUNTINGTON	45	4492	4613
PARKERSBURG U	48	[illegible]	4809
WISCONSIN			
GREEN BAY	[illegible]	[illegible]	8007
LA CROSSE	[illegible]	[illegible]	7378
MADISON	[illegible]	7353	7658
MILWAUKEE	267	7227	[illegible]
WYOMING			
CASPER	[illegible]	8006	[illegible]
CHEYENNE	576	7648	7099
LANDER	518	8088	7719
SHERIDAN	450	8120	7540

COOLING DEGREE DAYS

(continued)

State and station	Current season		
	[illegible]	[illegible]	[illegible]
ALABAMA			
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
ALASKA			
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
BETHEL	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
TALKEETNA	[illegible]	[illegible]	[illegible]
UNALAKLEET	[illegible]	[illegible]	[illegible]
YAKUTAT	[illegible]	[illegible]	[illegible]
ARIZONA			
[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	531
[illegible]	[illegible]	[illegible]	392
[illegible]	[illegible]	[illegible]	61
[illegible]	[illegible]	[illegible]	[illegible]
ARKANSAS			
FORT SMITH	[illegible]	212	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
CALIFORNIA			
BAKERSFIELD	[illegible]	320	[illegible]
[illegible]		52	77
BLUE CANYON	[illegible]	11	
[illegible]			[illegible]
FRESNO	[illegible]	164	[illegible]
[illegible]	[illegible]	[illegible]	76
[illegible]		[illegible]	[illegible]
LOS ANGELES U	[illegible]	32	[illegible]
[illegible]	14	[illegible]	[illegible]
[illegible]	[illegible]		[illegible]
[illegible]		[illegible]	192
SACRAMENTO	[illegible]	177	[illegible]
[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	21	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
SANTA MARIA	0		[illegible]
STOCKTON	157	[illegible]	[illegible]
COLORADO			
ALAMOSA			
COLORADO SPRINGS		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
GRAND JUNCTION	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
CONNECTICUT			
BRIDGEPORT	[illegible]	[illegible]	[illegible]
HARTFORD	[illegible]	[illegible]	[illegible]
DELAWARE			
WILMINGTON	[illegible]	[illegible]	[illegible]
[illegible]			
[illegible]	[illegible]	93	[illegible]
WASHINGTON NATIONAL	[illegible]	[illegible]	116
FLORIDA			
[illegible]	[illegible]	524	528
DAYTONA BEACH	[illegible]	861	650
FORT MYERS	[illegible]	[illegible]	1000
[illegible]	[illegible]	575	[illegible]
KEY WEST	[illegible]	1955	1592
LAKELAND U	[illegible]	[illegible]	861
MIAMI	[illegible]	1608	1181
ORLANDO	[illegible]	[illegible]	[illegible]
PENSACOLA	[illegible]	[illegible]	563
TALLAHASSEE	[illegible]	544	[illegible]
TAMPA	[illegible]	1162	869
WEST PALM BEACH	[illegible]	[illegible]	1052
GEORGIA			
ATHENS	[illegible]	[illegible]	224
ATLANTA	[illegible]	[illegible]	193
AUGUSTA	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
MACON	[illegible]	[illegible]	[illegible]
ROME	[illegible]	252	183
SAVANNAH	[illegible]	[illegible]	[illegible]

State and station	Current season		
	[illegible]	[illegible]	[illegible]
HAWAII			
HILO	[illegible]	[illegible]	1033
[illegible]	[illegible]	1344	1341
KAHULUI	254	[illegible]	1204
[illegible]	336	[illegible]	1158
IDAHO			
BOISE		[illegible]	[illegible]
[illegible]	13	13	[illegible]
[illegible]	[illegible]	[illegible]	
ILLINOIS			
[illegible]	[illegible]	[illegible]	222
[illegible]		76	[illegible]
[illegible]	[illegible]	[illegible]	53
[illegible]	[illegible]	[illegible]	
PEORIA	[illegible]	[illegible]	76
[illegible]	75	75	[illegible]
SPRINGFIELD	115	[illegible]	[illegible]
INDIANA			
[illegible]	176	205	[illegible]
FORT WAYNE	76	78	[illegible]
INDIANAPOLIS	[illegible]	[illegible]	[illegible]
SOUTH BEND	[illegible]	[illegible]	
IOWA			
BURLINGTON	89	[illegible]	[illegible]
[illegible]	[illegible]	119	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
SIOUX CITY	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
KANSAS			
CONCORDIA	74	88	[illegible]
DODGE CITY	76	98	[illegible]
GOODLAND		14	27
[illegible]	[illegible]	167	125
WICHITA	49	81	155
KENTUCKY			
COVINGTON	[illegible]	146	90
LEXINGTON	[illegible]	141	118
[illegible]	[illegible]	[illegible]	122
LOUISIANA			
ALEXANDRIA	[illegible]	[illegible]	366
[illegible]	[illegible]	[illegible]	524
LAKE CHARLES	[illegible]	578	563
NEW ORLEANS	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
MAINE			
CARIBOU		[illegible]	
PORTLAND	[illegible]		
MARYLAND			
[illegible]	[illegible]	[illegible]	[illegible]
MASSACHUSETTS			
BLUE HILL OBS R	[illegible]	[illegible]	[illegible]
BOSTON	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
MICHIGAN			
[illegible]	39	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
DETROIT METRO	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
GRAND RAPIDS	[illegible]	[illegible]	[illegible]
HOUGHTON LAKE	58	[illegible]	[illegible]
LANSING	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]		[illegible]
MUSKEGON	[illegible]	[illegible]	[illegible]
SAULT STE MARIE	[illegible]	[illegible]	
MINNESOTA			
DULUTH	[illegible]	[illegible]	
INTERNATIONAL FALLS	[illegible]	[illegible]	
MINNEAPOLIS	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
ST CLOUD	[illegible]	[illegible]	[illegible]
MISSISSIPPI			
JACKSON	[illegible]	475	408
MERIDIAN	[illegible]	[illegible]	395
MISSOURI			
COLUMBIA REGIONAL	[illegible]	82	[illegible]
KANSAS CITY	[illegible]	[illegible]	133
ST JOSEPH	[illegible]	[illegible]	116
ST LOUIS	[illegible]	147	154
SPRINGFIELD	[illegible]	[illegible]	127
MONTANA			
BILLINGS	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
GREAT FALLS	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
HELENA	[illegible]		
KALISPELL	[illegible]	[illegible]	
MILES CITY	[illegible]	[illegible]	[illegible]
MISSOULA		[illegible]	

State and station	Current season		
	[illegible]	[illegible]	[illegible]
NEBRASKA			
GRAND ISLAND	[illegible]	51	[illegible]
LINCOLN	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]		[illegible]
NORTH PLATTE	[illegible]	21	[illegible]
OMAHA	[illegible]	[illegible]	
SCOTTSBLUFF	[illegible]	13	
VALENTINE	[illegible]	[illegible]	[illegible]
NEVADA			
ELKO			
ELY			[illegible]
LAS VEGAS	[illegible]	[illegible]	[illegible]
[illegible]			
WINNEMUCCA	[illegible]	[illegible]	[illegible]
[illegible]			
[illegible]	[illegible]	[illegible]	
[illegible]		[illegible]	
NEW JERSEY			
[illegible]	[illegible]	[illegible]	[illegible]
ATLANTIC CITY U		42	
[illegible]		117	
TRENTON U	[illegible]	111	[illegible]
NEW MEXICO			
ALBUQUERQUE	[illegible]	[illegible]	73
CLAYTON	[illegible]	[illegible]	22
[illegible]	[illegible]	[illegible]	154
NEW YORK			
ALBANY	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
BUFFALO	[illegible]	[illegible]	[illegible]
NEW YORK U	[illegible]	120	[illegible]
NEW YORK KENNEDY	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]		[illegible]
ROCHESTER	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
NORTH CAROLINA			
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	126
CHARLOTTE	[illegible]	228	185
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		166	
WILMINGTON		[illegible]	
NORTH DAKOTA			
[illegible]	[illegible]	[illegible]	[illegible]
FARGO	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	
OHIO			
AKRON	[illegible]	[illegible]	[illegible]
CINCINNATI ABBE OB	[illegible]	173	117
CLEVELAND	[illegible]	75	[illegible]
COLUMBUS	[illegible]	131	55
DAYTON U	[illegible]	[illegible]	66
MANSFIELD	[illegible]	68	52
TOLEDO	[illegible]	79	37
YOUNGSTOWN	[illegible]	65	29
OKLAHOMA			
OKLAHOMA CITY	[illegible]	[illegible]	191
TULSA	[illegible]	242	[illegible]
OREGON			
ASTORIA		[illegible]	
BURNS U		[illegible]	
[illegible]		[illegible]	
[illegible]	[illegible]	[illegible]	
PENDLETON	[illegible]	[illegible]	
PORTLAND		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
SEXTON SUMMIT R	[illegible]		
PACIFIC AREA			
GUAM TAGUAC R	[illegible]	[illegible]	1985
JOHNSTON	[illegible]	1808	1857
[illegible]	[illegible]	2545	2475
KWAJALEIN	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
PAGO PAGO	[illegible]	[illegible]	[illegible]
PONAPE R	[illegible]	2518	[illegible]
TRUK MOEN ISLAND	[illegible]	2557	2446
WAKE	[illegible]	1870	[illegible]
[illegible]	[illegible]	[illegible]	2429
PENNSYLVANIA			
ALLENTOWN	[illegible]	[illegible]	[illegible]
ERIE	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
PHILADELPHIA	[illegible]	121	[illegible]
PITTSBURGH	[illegible]	60	[illegible]
[illegible]	[illegible]	91	[illegible]
WILLIAMSPORT	[illegible]	[illegible]	[illegible]
RHODE ISLAND			
BLOCK ISLAND	[illegible]	[illegible]	[illegible]
PROVIDENCE	[illegible]	[illegible]	[illegible]

State and station	Current season		
	[illegible]	[illegible]	[illegible]
SOUTH CAROLINA			
CHARLESTON	[illegible]	439	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]		
[illegible]	[illegible]	230	[illegible]
[illegible]			
ABERDEEN	[illegible]	[illegible]	[illegible]
HURON	[illegible]	[illegible]	[illegible]
RAPID CITY	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
TENNESSEE			
BRISTOL	[illegible]		
[illegible]	[illegible]	[illegible]	
KNOXVILLE	[illegible]	212	[illegible]
[illegible]	272	[illegible]	[illegible]
NASHVILLE	[illegible]	244	[illegible]
OAK RIDGE			
TEXAS			
ABILENE	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	
AUSTIN		[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]
CORPUS CHRISTI	[illegible]	[illegible]	[illegible]
DALLAS FT WORTH	[illegible]	356	[illegible]
[illegible]	[illegible]	665	[illegible]
EL PASO	[illegible]	[illegible]	[illegible]
GALVESTON	[illegible]	[illegible]	[illegible]
HOUSTON INTERCON	[illegible]	[illegible]	[illegible]
LUBBOCK	107	156	[illegible]
MIDLAND	[illegible]	[illegible]	[illegible]
PORT ARTHUR	344	[illegible]	[illegible]
SAN ANGELO	[illegible]	[illegible]	[illegible]
SAN ANTONIO	[illegible]	505	[illegible]
VICTORIA	421	842	[illegible]
[illegible]	[illegible]	355	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
UTAH			
MILFORD	[illegible]	[illegible]	[illegible]
SALT LAKE CITY	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
VERMONT			
BURLINGTON	[illegible]	[illegible]	[illegible]
VIRGINIA			
LYNCHBURG	[illegible]	[illegible]	[illegible]
[illegible]	157	[illegible]	[illegible]
[illegible]	[illegible]	151	[illegible]
ROANOKE	[illegible]	113	[illegible]
WALLOPS ISLAND	[illegible]	62	[illegible]
[illegible]			
OLYMPIA	[illegible]	[illegible]	[illegible]
QUILLAYUTE	[illegible]	[illegible]	[illegible]
SEATTLE	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
SPOKANE	[illegible]	[illegible]	[illegible]
STAMPEDE PASS R	[illegible]	[illegible]	[illegible]
WALLA WALLA U	[illegible]	20	[illegible]
[illegible]	[illegible]	10	[illegible]
[illegible]			
SAN JUAN P.R.	[illegible]	[illegible]	[illegible]
WEST VIRGINIA			
BECKLEY		56	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
ELKINS	[illegible]	[illegible]	[illegible]
HUNTINGTON	[illegible]	[illegible]	[illegible]
PARKERSBURG U	[illegible]	113	[illegible]
WISCONSIN			
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
MADISON	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]			
CASPER		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
LANDER	[illegible]	[illegible]	[illegible]
SHERIDAN	[illegible]	[illegible]	[illegible]

STORM SUMMARY

MAY 1975

STATE	TORNADOES					HAILSTORMS				WINDSTORMS				LIGHTNING				@HEAVY SNOWSTORMS AND BLIZZARDS				# ICE STORMS				ϕ ALL OTHER			
	NUMBER	DAYS	DEATHS	INJURIES	† DAMAGE	DEATHS	INJURIES	†DAMAGE PROPERTY	†DAMAGE CORPS	DEATHS	INJURIES	†DAMAGE PROPERTY	†DAMAGE CORPS	DEATHS	INJURIES	†DAMAGE PROPERTY	†DAMAGE CORPS	DEATHS	INJURIES	†DAMAGE PROPERTY	†DAMAGE CORPS	DEATHS	INJURIES	†DAMAGE PROPERTY	†DAMAGE CORPS	DEATHS	INJURIES	†DAMAGE PROPERTY	†DAMAGE CORPS
Alabama	1	1			4			2	3			4																	
Alaska *																													
Arkansas	1	1			5		1	5	C		11	5		1	1											3		3	
Arizona											8	5	4																
California *																													
Colorado	12	5			5			4	5		3	5	4															4	
Connecticut																[illegible]													
Delaware															1	4													
Florida	9	8			5			4	[illegible]		9	6	[illegible]	2	2	4	[illegible]												
Georgia	2	1		3	5			4	4			5	4	1															
Hawaii																										1			
Idaho												5								3								4	4
Illinois	7	6		3	6			5	6		11	8	4	1	1	4												4	4
Indiana	2	2			4			[illegible]	[illegible]			5		1		5													
Iowa	12	4			6			4	3			6				4										1			
Kansas	4	4			5			6	6		6	6																	
Kentucky								4				4														5		6	
Louisiana	12	4		9	6					1	1	6	5		3											5	1	[illegible]	[illegible]
Maine													3																
Maryland & DC												4				5													
Massachusetts *																													
Michigan	8	3		2	5			2		3	15	6		2	8	5													
Minnesota	1	1			3			2	4		50	7				5													5
Mississippi	7	4		1	5			3	6			5	5		3	5												[illegible]	[illegible]
Missouri								6	[illegible]		8	7	[illegible]	1		4												6	[illegible]
Montana *																													
Nebraska	22	7	3	135	8			5	3			4																	
Nevada *																													
New Hampshire											1	3																	
New Jersey									[illegible]						1	[illegible]												5	
New Mexico	1	1			4			4	5																				
New York								3	C			4				5												4	C
North Carolina	12	6		7	5			3	5		2	5	3	1	2	4													
North Dakota	3	3		5	[illegible]																								
Ohio												[illegible]				[illegible]												5	
Oklahoma	7	3			6			6	7		10	6			3	4												5	4
Oregon												[illegible]															4		
Pacific Area *																													
Pennsylvania	1	1			4				3			5				4												4	3
Puerto Rico *																													
Rhode Island *																													
South Carolina	2	1			4			5	6			4	4			3													
South Dakota	9	3			5			4	5			5	4																
Tennessee									4			5														2			
Texas	50	19			[illegible]		11	[illegible]	[illegible]		40	[illegible]	[illegible]													9		[illegible]	[illegible]
Utah												4	4							4	4								5
Vermont												4																5	C
Virginia								[illegible]	5			5				5												6	
Virgin Islands *																													
Washington										3	12	4	1															2	2
West Virginia	1	1			1						2	4			1													5	
Wisconsin								[illegible]	[illegible]			12	6				4										[illegible]	6	
Wyoming	1	1										4								5	C								

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

MAY 1975

Herbert J. Thompson, Office of Hydrology

Major flooding continued from April in the Souris Basin of North Dakota, portions of the Upper Mississippi Basin, and the lower Red River Basin in Louisiana. Significant flooding also continued in the Red River of the North Basin, the lower Ohio Basin, and the White Basin in Arkansas.

A record flood occurred on the upper Calcasieu River in Louisiana and significant flooding occurred in several areas of the country, including the Atlantic Slope Drainage in the Southeast, the Pearl River Basin in Mississippi, and the West Gulf Drainage in Texas.

The spring breakup occurred in Alaska with serious flooding from ice jams on several streams. Minor snowmelt flooding occurred on the St. John River in Maine, the headwaters of the Missouri and Yellowstone Rivers, the Great Basin, and the headwaters of the Columbia River.

A number of flash or urban flooding events occurred during May, the most serious of which were at Charlotte, N. C., and the headwaters of the Big Sandy River in Kentucky and Virginia resulting in damages of several million dollars.

These and other hydrologic events of unusual significance or involving loss of life or property damage are discussed in more detail below.

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	HUDSON BAY DRAINAGE		
Souris River (North Dakota)	The major flooding which began in April crested in May with new record stages at several points. About an inch of rain occurred over the basin on the 6th-8th in addition to the heavy rains of late April which were the primary cause of the record flooding. The crest at Lake Darling of 23.77 feet exceeded the old record set in 1943 by almost one foot. The record stage was caused by increased storage in the lake to lower the crest at Minot downstream. Below Minot the crest stages at Logan, Sawyer, and Velva all exceeded the previous record stages of 1969 by amounts of 0.04 to 0.22 foot. Crests were generally from 5 to 6 feet over flood stage from Minot upstream and 2 to 3 feet over flood stage below Minot except at Westhope where the crest was 6.5 feet over flood stage. Total damage estimates are not available for the basin. Damage in Minot was relatively light, estimated at $800,000 to streets and storm and sanitary sewers and $77,000 to parks. About $2 million was spent on additional flood control structures which together with those constructed in 1969 resulted in savings estimated at $26.9 million by the Corps of Engineers. More than 3,100 people were evacuated from flood prone areas of Minot as a precautionary measure in case the dikes should fail which did not happen. Flooding was severe in rural areas with numbers of farm homes affected and hundreds of thousands of acres of farmland inundated. The reach from Velva to below Bantry was particularly affected with first floor flooding of homes common in McHenry County where 45 farm families were evacuated. In Bottineau County 167,000 acres were flooded. Flooding continued into June along the Souris River below Lake Darling. Two men were drowned while driving cattle through the flood waters.	2	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

MAY 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	HUDSON BAY DRAINAGE-Cont'd		
Red River of the North Basin	Flooding continued from April in the Red River Basin. All tributaries of the Red were in recession at the beginning of the month and had fallen below flood stage by the 6th. The Red River crested in April at and above Oslo, Minn., and crested early in May at downstream points falling below flood stage by the 17th. Damage estimates are not available but losses were primarily agricultural since most communities are protected by dikes and levees. The Corps of Engineers estimated savings of $4.8 million thru operation of flood control structures in conjunction with flood forecasts and warnings.	0	N.A.
	ST. LAWRENCE DRAINAGE		
Great Lakes Tributaries	Minor flooding occurred along several streams draining into the Great Lakes. Melting of a heavy snowpack in northern Wisconsin augmented by more than an inch of rain brought the Wolf River over flood stage on April 28 with a crest 0.3 foot over flood stage at New London on April 30. Flooding continued until May 10. No damage was reported. In the Maumee Basin of Indiana and Ohio the St. Josephs and Tiffin Rivers were over flood stage from the 7th to the 10th at Montpelier and Stryker, Ohio, respectively, with no damage reported. Locally heavy thunderstorms caused some urban flooding in Detroit, Mich., on the 25th and 30th. The Cuyahoga River crested 1.9 feet over flood stage on the 22d at Independence, Ohio, as a result of locally heavy thunderstorms upstream. There was considerable lowland flooding along the Cuyahoga with some agricultural damage. A covered bridge over Furnace Run was destroyed by debris. Further east, flash flooding was reported at Arcade, N. Y., along Cattaraugus Creek in the Lake Erie drainage. The stream rose 5.5 feet in two hours during the evening of the 23d. Four trailers suffered some damage. Urban flooding occurred in Buffalo and Amherst, N. Y., on the 21st, in East Aurora on the 22d, and in Syracuse on the 23d.	0	N.A.
	ATLANTIC SLOPE DRAINAGE		
St. John River (Maine)	The spring snowmelt runoff brought the St. John River over flood stage at Fort Kent, Maine, about the 7th. A crest of 1.5 feet over flood stage occurred on the 14th with some lowland and basement flooding reported. The crest was probably caused by locally heavy showers over various areas of Maine during the evening of the 13th which caused urban flooding in several towns. Street	0	N.A.

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ATLANTIC SLOPE DRAINAGE-Cont'd		
	damage of $11,000 was reported at Worthington, thought to have been caused by breaking of a beaver dam.		
Connecticut River Basin	Flash flooding caused serious damage along the South Branch of the Williams River, a tributary of the upper Connecticut River in Vermont. This flooding resulted from a heavy rainstorm centered over Chester, Vt., which deposited 5.5 inches of rain in 75 minutes over that city on the evening of the 31st. A bridge was destroyed along Rt. 103 near Chester and highway damage was also reported.	0	200
Susquehanna River Basin	Flooding occurred on the Chemung River at Chemung, N. Y., on the 7th with a crest 1.3 feet over flood stage. Rains of 1 to 2 inches on the 1st-2d were followed by rains of up to 2 inches on the 4th-7th which caused the flooding. Although damage was light this was the highest stage reached at that point since the Hurricane Agnes flood of 1972. These rains also caused urban flooding in Binghamton, N. Y., where the Susquehanna River rose to within a foot of flood stage and small stream flooding in the Unadilla area.	0	N.A.
Roanoke, Cape Fear and Pee Dee River Basins	Flooding continued until the 6th on the lower Roanoke River due to releases from John H. Kerr Reservoir made necessary by the heavy April rainfall over the upper basin. Locally heavy rains on the 15th-16th and 18th with amounts of 1 to more than 2 inches caused some minor flooding on the Cape Fear River at Elizabethtown, N. C., and a ten-day period of flooding on the Lumber River with a crest 1.7 feet over flood stage at Lumberton, N. C. On the Pee Dee River rains of 1.5 to 4 inches occurred over the upper portion of the basin on the 3d-4th. A strong rise of 14 feet within 24 hours occurred at Cheraw, S. C., which crested below flood stage there. Minor flooding resulted at Pee Dee S. C., from this rain. The rains during the middle of the month caused some flooding along the Pee Dee from Cheraw to Pee Dee with crests 0.7 to 1.7 feet over flood stage. Losses of $15,000 were reported in the Pee Dee Basin.	0	N.A.
Santee River Basin	Severe flash flooding struck northwest Charlotte, N. C., early on the 30th. Rainfall reports in the area for the 24 hours ending at 8 a.m. on the 30th ranged from less than an inch to 6.1 inches at McAdenville, N. C. Urban and small stream flooding was widespread in Gaston, Mecklenberg, Cabarrus and Stanley Counties. Most of the damage was in northwest Charlotte where 62 houses, 14 mobile homes, and 21 businesses were affected. Residential damage was estimated at $156,000 and commercial losses at $2,695,000. The South Fork of the Catawba River crested 2.2 feet over flood stage at McAdenville from this storm.	1	2,866

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ATLANTIC SLOPE DRAINAGE-Cont'd		
	In the Broad River Basin 2 to 4 inches on the 1st-4th caused flooding on the lower Broad River Basin with a crest nearly 6 feet over flood stage at Blair, S. C., on the 4th. Locally heavy rain of up to over 3 inches on the 15th-16th caused minor flooding at Blair on the 17th. Heavy rain occurred the 17-18th over the headwaters of the Broad with an unofficial report of 6.4 inches near Lake Lure, N. C. Minor flooding resulted downstream at Gaffney and Blair. Damage of $15,000 was reported below Lake Lure to crops and roads. Over 10,000 tomato plants were destroyed. The storm of the 30th, discussed above, deposited 2.5 to 4 inches over the headwaters of the Broad River causing flooding downstream with crests of 2.2 feet and 6.1 feet over flood stage at Gaffney and Blair, S. C., respectively. Rainfall of more than 3 inches fell over the Catawba River above Lake Wylie on the 3d. The resulting discharge from Lake Wylie caused Wateree Reservoir to crest one foot over full lake level on the 5th. Discharges from the reservoir caused some lowland flooding downstream although flood stage was not reached.		
Edisto River Basin	The various periods of heavy rainfall discussed above overlapped the Edisto Basin causing minor flooding on the North Fork at Orangeburg, S. C., from the 12th-14th and 18th-22d, and on the main Edisto at Givhans Ferry, S. C., the 18th and 20th-26th.	0	N.A.
Savannah River	Flooding which began at Clyo, Ga., in January ended on the 1st. Locally heavy rainfall of 1 to over 2.5 inches occurred over the North and South Carolina tributaries on the 3d and again on the 16th. A 24 hour amount of 5.2 inches was reported at Lake Toxaway, N. C., on the 18th. Flash flooding was believed to have occurred in the latter area. Light flooding began again at Clyo on the 9th and continued into June aided by the various periods of heavy local rain; the crest, 2.2 feet over flood stage, occurred on the 31st.	0	N.A.
Ocumlgee River Basin	Two periods of minor flooding resulted from the series of storms discussed above along portions of the Ogeechee River, a north branch of the Ocmulgee River. These were at Scarboro, Ga., the 6-8th and 19th and at Eden, Ga., the 9-14th and 23d-25th.	0	N.A.
	EAST GULF OF MEXICO DRAINAGE		
Tombigbee, Pascagoula and Pearl River Basins	Rainfall was well above normal over the southern half of Mississippi with monthly totals generally in the range of 7 to 11 inches. Heaviest amounts were during the first half of the month with amounts of 3 to 4 inches April 30-May 1 causing the Pearl River to go over flood stage at and below Jackson. Additional amounts of over 2 inches occurred the 6th-9th, causing the Pearl to crest 8 to 10 feet over flood stage from Jackson	0	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

MAY 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimage of Property Damage (thousands of dollars)
	EAST GULF OF MEXICO DRAINAGE-Cont'd		
	to Monticello. Downstream crests were in the range of 5 to 7 feet over flood stage. Flooding also occurred in the lower Pascagoula Basin where a crest 4 feet over flood stage was observed on the Leaf River at Beaumont, Miss., and less than a foot over flood stage on the lower Pascagoula River at Merrill, Miss. A crest nearly 6 feet over flood stage occurred at Franklinton, La., on the Bogue Chitto River, a tributary of the Pearl. Locally heavy rain on the 15th-17th caused minor flooding in the headwaters of the Tombigbee River at Fulton, Miss. Losses were mainly due to continued delay in planting of fields and suspension of timber cutting operations. Livestock and equipment were evacuated from the floodplain on the basis of flood forecasts.		
	UPPER MISSISSIPPI BASIN		
Mississippi River tributaries in Minnesota and Wisconsin	Flooding continued into May along a number of tributaries of the upper Mississippi River as a result of heavy rainfall in April. Several of these tributaries crested late in April and fell below flood stage during the first week of May. These included the St. Croix River at Stillwater, Minn., and portions of the lower Chippewa, Trempealeau, Black, Kickapoo, and Wisconsin Rivers in Wisconsin. Streams cresting early in May were the Crow, Rum, and lower Minnesota Rivers. In the Crow River Basin flooding ranged from nearly 5 feet at Delano, Minn., to about 3 feet downstream at Rockford, Minn. A crest 2.2 feet over flood stage occurred on the Rum River at St. Francis, Minn., on the 3d. Moderate flooding occurred on the lower Minnesota River which lasted until the 15th with crests ranging from nearly 4 feet over flood stage at Jordan and Chaska to 7.5 feet over flood stage downstream at Savage, Minn.	0	N.A.
Mississippi River tributaries in Iowa	Light flooding from the heavy rains of late April continued into May in portions of the Des Moines Basin and on the Cedar River at Conesville where a crest 1.3 feet over flood stage occurred on the 6th. Rains averaging about 0.5 inch over the upper Iowa River caused a secondary crest, 1 foot over flood stage at Marshalltown on the 4th. Flooding ended on the 3d at Humboldt on the West Fork of the Des Moines and on the 5th at Jefferson on the North Raccoon River, both of which crested in late April. On the main Des Moines River the crest of 3.6 feet over flood stage at Stratford on the 1st was augmented by flow from the Raccoon River to give a crest 2.5 feet over flood stage downstream at the Des Moines 14th street gage. Flooding was primarily of agricultural land.	0	N.A.
Illinois River (Illinois)	Flooding from the late April rains continued into May on the Illinois River at and below La Salle. Crests were in the range of 2 to 4 feet over flood	0	N.A.

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	UPPER MISSISSIPPI BASIN-Cont'd		
	stage. At Beardstown and Meredosia crests were delayed and increased by heavy rains of up to 1.5 inches which fell over the lower basin on the 6th-7th. Flooding ended on the Illinois by the 21st.		
Meramec River Basin (Missouri)	Rain, averaging about 2 inches, and falling on already saturated ground on the 6th-7th caused minor flooding on the Big River and a crest nearly 4 feet over flood stage at Union on the Bourbeuse River. Downstream on the Meramec River from 1 to 2 feet of flooding occurred at Eureka and Valley Park.	0	N.A.
Upper Mississippi River Main Stem	Flooding continued from April along the upper reach from Libby, Minn., to Guttenberg, Iowa, and also along the lower reach from Grafton, Ill., to the mouth of the Ohio River except around St. Louis. Flooding on the latter reach crested in late April and ended by the 3d only to begin again within a few days as the flood wave from upstream approached. Along the middle reach in Iowa and northern Missouri flooding began early in May and became rather serious with damages estimated at $2,235,000, which includes $800,000 at Davenport, Iowa, and $250,000 at Keokuk. Crests were generally in the range of 3 to 5 feet over flood stage. Crests at Dubuque and Davenport were the third highest in this century while those at Clinton and Muscatine were the fifth highest during that period. Along the upper reach from Libby, Minn., to Guttenberg, Iowa, crests were generally 2 to 4 feet over flood stage. Damage estimates are not available for this reach but 5,000 acres were inundated in Aitkin County, Minn. Savings from flood warnings were estimated at $250,000 in Vernon County, Wis. On the lower reach of the Mississippi down to the mouth of the Ohio, crests were generally lower than those which occurred in late April ranging from 1 to 2.5 feet over flood stage below Grafton Ill. There was little additional damage beyond that given in last months report for the late April flooding. There was a period during May when all reporting stations on the upper Mississippi except Minneapolis, Minn. and St. Louis, Mo. were above flood stage.	0	N.A.
	MISSOURI BASIN		
Upper Missouri Basin	The snowpack over the headwaters of the Missouri and Yellowstone Rivers as of May 1 was generally much above normal, ranging from 120 to more than 150 percent of the 1958-72 average. During the period April 28 to May 11 heavy precipitation occurred over much of this area with totals of 3.5 and 4.4 inches recorded for this period at Great	0	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	MISSOURI BASIN-Cont'd		
	Falls and Miles City, respectively. This precipitation, much of which occurred as rain over the lower elevations, combined with lower level snowmelt to cause overflows on many smaller streams in the area. Minor flooding occurred along the East Gallatin River near Bozeman, Mt. The only reporting station to go over flood stage was on the Shields River in the Yellowstone Basin which exceeded flood stage slightly at Clyde Park, Mt. on the 13th. Damage was limited to secondary roads and bridges. On the 6th rains of 4 to 9 inches were reported over the Box Elder Creek drainage in southeastern Montana. The resulting flood crest was said by residents to have been 4 feet higher than any previous crest in the last 50 years. There are no reporting stations on the stream. A rise to bankfull stages occurred on the Little Missouri River downstream from Box Elder Creek with no damage reported, although a picnic ground was flooded near Medora, N. D.		
Moreau River Basin (South Dakota)	Rains of 4 to 5 inches on the 5th-6th over the headwaters of the South Fork of Moreau River caused some flooding. No stage reports are received from that stream. One family was forced from their home at Hoover, S. D., and damage to some bridges and culverts was reported. A sharp rise occurred on the Moreau River downstream which crested about three-quarters bankfull on the 10th.	0	N.A.
James River	Rains of 1 to 2 inches over the headwaters of the James in North Dakota combined with snowmelt to cause flooding downstream at Columbia, S. D., early in the month. A crest about 2 feet over flood stage occurred there on the 15th. Flooding began late in the month downstream at Stratford, S. D., and continued into June at both locations. The crest at Columbia was caused in part by heavy rains on the 10th-11th over the Elm River watershed which empties into the James just below Columbia. The heavy inflow from the Elm caused backwater on the James at Columbia.	0	N.A.
Little Sioux River (Iowa)	Flooding from the heavy rains of late April continued into the first week of May. Locally heavy rains above Linn Grove caused a brief period of minor flooding there the 14th-16th.	0	N.A.
Kansas River Basin	The first three weeks of May were abnormally dry, however frequent thundershowers the last 10 days of the month produced strong rises on several streams which in most cases crested below bankfull stages. On the 22d-23d rains averaging 1 to 2 inches occurred over eastern Kansas. On the 27th-28th amounts of up to 3 inches fell over eastern and northcentral Kansas. Amounts of over 4 inches occurred the 28th-29th over northwest Kansas into east central Colorado producing minor overflows on Ladder and Sappa Creeks. On	0	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	MISSOURI BASIN-Cont'd		
	the 30th heavy rain again occurred over northern Kansas with Soldier Creek cresting nearly 2 feet over flood stage at Delia. This was the only reporting station over flood stage during the month.		
Lower Missouri River Basin	Rains of 3 to 4 inches over the Marais des Cygnes Basin on the 22d to 23d produced strong rises on Pottawatomie Creek and the Marais des Cygnes River which crested below flood stage. Similar amounts occurred again on the 28th-29th with similar results. An isolated storm with 2 inches of rainfall caused urban flooding in Ottowa, Kansas, the evening of the 29th.	0	N.A.
	Heavy rain fell over northwest Missouri on the 29th-30th with amounts of up to over 4 inches. Minor flooding occurred on the Platte River at Agency and a crest 4 feet over flood stage at Sumner on the Grand River where flooding continued into June.		
	Rainfall averaging about 2 inches over the extreme lower Missouri the 7th-8th combined with backwater from the flooding Mississippi to cause minor flooding at St. Charles, Mo., on the 7th-9th.		
	OHIO BASIN		
Middle Ohio Basin	Several flash flood events occurred during May from locally heavy thundershowers. No river flooding was reported during the month in this area. During the night of the 17th-18th flash flooding occurred along Shelby, Beefhide, and Elkhorn Creeks, which are headwater tributaries of the Levisa Fork of the Big Sandy River in Kentucky. Losses were estimated at $4 million with 160 mobile homes damaged, 20 bridges washed out, and 2 lives lost. Flooding was said to have been more severe than that of 1957 or 1963. Severe flash flooding also struck Pound, Va., on the Pound River as a result of this storm. More than 100 homes and businesses were flooded and 250 people were evacuated. Damage was estimated at about $300,000. Rainfall totals of 4.9 and 4.1 inches were reported at North Fork Dam, Va., and Burdine, Ky., respectively, for this storm.	2	4,310
	Late on the 18th an isolated thunderstorm deposited 4.7 inches of rain on Sabine in Wyoming County, W. Va. Flash flooding along Laurel Fork, a tributary of the Guyandot River, affected the communities of Ravencliff, Sabine, Glen Fork, and Matheny. A store and several homes were damaged in Glen Fork with damage estimated at $10,000.		
	Early on the 27th an isolated thunderstorm (amount of rain unknown) caused flash flooding along Hughes Creek in Kanawha County, W. Va. In the community of Happytown, 4 automobiles were lost		

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

MAY 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	OHIO BASIN-Cont'd		
	and 19 homes were flooded to varying degrees.		
Lower Ohio River Basin	Isolated thundershowers caused minor flooding along the Licking River at Salyersville, Ky., on the 19th and flash flooding in the headwaters of the North Fork of the Kentucky River where Troublesome Creek flooded Hindman, Ky., Neon, and Fleming on the 23d. A crest about 5 feet over flood stage occurred at Neon. Minor flooding also occurred on the 18th along the upper French Broad River in the headwaters of the Tennessee Basin. Except for these isolated events, flooding in the lower Ohio Basin during May was a continuation of that which occurred in late April as a result of the heavy rains of April 24-25. While crests occurred on some of the smaller streams in late April, crests on the lower reaches generally occurred early in May. On the lower Green River in Kentucky up to 5 feet of flooding was reported. In the Wabash Basin a crest 3 feet over flood stage occurred on the lower Embarras River, 4 to 5 feet of flooding on the lower White River, from 5 to 11 feet of flooding along the Little Wabash and minor flooding on the lower Wabash at Mt. Carmel, Ill. On the Ohio River below Louisville, Ky., all reporting stations were over flood stage by May 1 except Evansville where no flooding occurred. Crests ranged up 11 feet over flood stage. At Cairo, where a crest 7 feet over flood stage occurred on the 2d, flooding ended by the 16th.	0	N.A.
	WHITE BASIN		
Black, White and Cache Rivers	Flooding continued from April on the Cache River at Patterson, Ark., and the lower Black and White Rivers. The major crest on the lower Black River at Black Rock, Ark., occurred on the 1st, 3.7 feet over flood stage, and resulted from the heavy rains of late April. These rains also caused minor secondary crests on the Cache and lower White Rivers early in May which were well below the major crests of April. Below normal rainfall during May over much of the basin aided the recession and all streams were below flood stage by the end of May.	0	N.A.
	ARKANSAS BASIN		
Middle Arkansas Basin in Oklahoma	Average monthly rainfall was from 1 to 4 inches above normal with the greatest departures in the north-central part of the State. Severe flash flooding occurred at Stillwater in the Cimarron Basin on the 13th. More than 4 inches of rain occurred in one and one half hours. Cars were washed off roads and carried downstream. About 200 people were evacuated from homes. No deaths	0	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

MAY 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ARKANSAS BASIN-Cont'd		
	were reported. The Cimarron River crested about 2 to 2.5 feet over flood stage from Dover down to Perkins. This storm also caused flooding along Bird Creek, a tributary of the Verdigris River, with crests of 3 to over 6 feet above flood stage. Minor flooding occurred on the North Canadian River at Watonga. There were two other periods of locally heavy rainfall during the month which caused flooding on some streams in the basin. Minor flooding occurred along the Deep Fork and Poteau Rivers from the 5th to the 8th and along Bird Creek and the Cimarron and Little Rivers beginning on the 23d. Most serious flooding during the latter part of the month was on the Deep Fork River with a crest 4.4 feet over flood stage at Beggs. This flooding continued into June.		
	RED BASIN		
Red River tributaries in Oklahoma	Locally heavy rainfall caused minor flooding along the Blue River on the 3d and a crest 3 feet over flood stage at Waurika on Beaver Creek on the 25th.	0	N.A.
Sulphur River	Frequent rainfall occurred over the basin from April 28 to May 7 with several amounts of more than an inch. This resulted in crests 2 feet over flood stage at Hagansport, Tex., on the 3d and 5.2 feet over flood stage at Naples on the 8th. Rains of more than 2 inches over the lower portion of the basin caused minor flooding at Naples on the 21st-22d.	0	N.A.
Ouachita, Black and Lower Red Rivers	Flooding along the Ouachita which began in March ended at Monroe, La., on the 1st. Monthly rainfall totals were above normal with up to 15.5 inches reported over the lower basin for the month. Heavy rainfall of more than 2 inches on the 2d-3d following a wet period caused flooding to begin again on the 3d. A crest 7 feet over flood stage occurred at Camden, Ark., on the 8th. From 2 to 4 feet of flooding was reported downstream in Louisiana which continued into June. Bayou Bartholomew was reported out of banks at many places on the 15th. Flooding continued from April along the Black River with a second crest about 3 feet over flood stage the middle of May. Flooding also continued on the Lower Red River below Alexandria, La. and lasted into June along both streams. Urban flooding was reported in Ruston, La., on the 7th where 2 inches of rain fell in 30 minutes. Urban flooding from a heavy thunderstorm occurred at Bastrop, La., on the 24th where a two-year old child was swept away in a drainage ditch and drowned.	1	20,352

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

MAY 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	RED BASIN-Cont'd		
	Damages indicated are in addition to those reported in April. At the crest of the flooding along these streams 1,059,518 acres were inundated and an additional 95,665 acres were affected by seepage around protective levees. Acreage affected includes 281,665 acres of soybeans and 29,450 acres of cotton. About 16,000 head of cattle were evacuated with more than 4,000 forced into sale. At the end of May 125 families had been able to return to their homes in Avoyelles Parish but 487 families were still displaced from their homes.		
	LOWER MISSISSIPPI BASIN		
St. Francis River	Flooding from the heavy rains of late April continued until May 9 at St. Francis with a crest about 2 feet over flood stage there on the 2d. Locally heavy rain of at least 2 inches on the 11th-12th brought the river up to slightly over flood stage on the 12th-13th.	0	N.A.
Yazoo and Big Black Rivers	Flooding on the Yazoo which began in March continued into May at Yazoo City in recession from the major crest of April. Heavy rainfall during the first half of the month prolonged the flooding until the 28th. Rainfall totals for May ranged up to the 15 inches which occurred over the lower Big Black Basin. Most of this rain fell during the first part of the month with more than 2 inches around the 1st causing the Big Black to go over flood stage again. Flooding persisted most of the month with crests 5 to 7 feet over flood stage on the 11th-12th.	0	G
Lower Mississippi Main Stem	Flooding continued from late April at New Madrid and Caruthersville, Mo., cresting 2 to 3 feet over flood stage early in May and ending about the middle of the month. This flooding resulted from a flood wave moving down from the upper Mississippi which, combined with heavy rainfall over Louisiana and central Mississippi (discussed above), caused minor flooding at Vicksburg and Natchez, Miss, and Donaldsonville, La., and a secondary crest 3.7 feet over flood stage at Red River Landing, La. where flooding had persisted since March. Flooding at Baton Rouge which also began in March ended on the 1st. Severe flash flooding occurred in Tallulah, La., on the 22d resulting from 3 inches of rain in less than 45 minutes. The ground floor levels of several retail and commercial establishments were flooded and about 20 homes were flooded. It was reportedly the worst flooding in 20 years. Widespread urban flooding occurred on the 29th-31st in coastal areas southwest of New Orleans. Clovelly Farms, La., recorded 13.7 inches in 18	0	G

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	LOWER MISSISSIPPI BASIN-Cont'd		
	hours on the 29th-30th. Among the communities affected were Houma and Larose.		
	WEST GULF OF MEXICO DRAINAGE		
Atchafalaya River Basin	Flooding which began at Morgan City, La., in February continued through May into June. The stream was generally in recession from the crest in April which was slowed by excessive rainfall during the month. Morgan City received 7.26 inches of rain in 24 hours on the 29th-30th. Urban flooding occurred in Morgan City, Gibson, and several other communities.	0	N.A.
Calcasieu River	Rainfall was excessive over much of the basin during May ranging from about 6 to 17 inches with the heavier amounts in the headwaters of the stream. Much of this rain occurred during the period April 29 to May 1 resulting in record flooding at Hineston, La. The peak stage of 19.29 there on the 5th was the highest observed in 20 years of record. However, a stage about 2 feet higher was said to have been reached in May 1953 before records began. Downstream flooding was in the range of about 3 to 3.5 feet. Heavy rains on the 24th-25th and again the 29th-30th caused flooding at Hineston which continued into June cresting nearly 4 feet over flood stage on the 31st.	0	N.A.
East Texas Streams	Rainfall was above normal over the area during May with monthly totals of 7 to nearly 11 inches. Locally heavy amounts of 1 to over 5 inches were common. Minor flooding occurred on the upper Sabine River at Emory and Mineola. The lower Sabine was over flood stage much of the month at Bon Weir and Deweyville where two periods of flooding were reported. A crest of 4.4 feet over flood stage occurred at Bon Weir on the 12th resulting from rains of 2 inches April 29 to May 1, more than an inch on the 8th-10th, and releases from Toledo Bend Reservoir. Late in the month rains of 2 to over 3 inches the 29th-30th caused flooding on the lower Sabine which continued into June. In the Neches River Basin minor lowland flooding occurred along Attoyoc Bayou and persisted the entire month on the Angelina River at Lufkin and the Neches River near Diboll, both points having been over flood stage for several months. In the headwaters of the Trinity River rains of up to 2.5 inches on the 20th-21st and from 1 to over 4 inches on the 24th-25th caused serious flooding. Chambers Creek crested 4.4 feet over flood stage at Corsicana and levee failures along the stream inundated 40,000 acres. Downstream the Trinity River crested 4 to 6 feet over flood stage from Trinidad to Long Lake. In Navarro County 25 head of cattle were drowned and agricultural damage totaled $150,000. Flooding continued from	0	N.A.

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	WEST GULF OF MEXICO DRAINAGE-Cont'd		
	April on the lower Trinity with a secondary crest 3.6 feet over flood crest at Moss Bluff. This flooding continued into June prolonged by releases from Lake Livingston and heavy rains which totaled 8.5 inches for the month at Liberty.		
Brazos and Colorado River Basins (Texas)	Amounts of 3 to over 5 inches were reported over the middle portions of the Brazos and Colorado Basins on the 24th-25th. The Navasota River, a tributary of the Brazos, crested 3.8 feet over flood stage at Easterly on the 26th and flooding is believed to have occurred downstream at Bryan but reports are missing. This flooding continued into June. The Colorado River crested 3 feet over flood stage at Columbus on the 26th.	0	N.A.
Lavaca River Basin (Texas)	Rainfall of 3 to over 4 inches on the 23d-24th caused serious flooding on the Navidad River, which crested 8 feet over flood stage at Ganado on the 27th with flooding continuing into June. The Lavaca River crested 2.4 feet over flood stage at Edna, also on the 27th.	0	N.A.
Guadalupe River Basin (Texas)	Two periods of flooding occurred in the basin during May. Rainfall of 1.5 to 3 inches in the Gonzales area and the San Marcos tributary basin caused flooding along the San Marcos with a crest 1.8 feet over flood stage at Luling on the 9th. Downstream on the Guadalupe River flooding occurred from Gonzales to the mouth with crests 2.4 to 6.5 feet over flood stage. Severe flash and urban flooding occurred during the evening of the 24th in the headwaters of the San Marcos River along Plum Creek with the communities of Lytton Springs and Lockhart affected. From 6 to 7 inches of rain fell over Plum Creek with Lockhart reporting 7 inches. Cars were washed off roads and some residents of Lockhart were evacuated. No lives were lost. Elsewhere in the basin 3 and 4 inch amounts were common with serious flooding on the Guadalupe from Gonzales downstream. Crests ranged from 13.6 feet over flood stage at Gonzales to 7 feet over flood stage at Dupont.	0	N.A.
Nueces River Basin (Texas)	Serious flooding developed from the storm of the 24th, which deposited rainfall amounts of 3.5 to 4 inches over the upper Nueces and Frio Basins and an estimated 6 inches over the lower Nueces below Cotulla. The Atascosa River crested 11 feet over flood stage at Whilsett on the 26th and crests on the lower Frio River from Tilden to Calliham ranged from 7 to 14 feet over flood stage. The heavy inflow from the Frio River caused serious flooding on the Nueces River from near Three Rivers to Mathis Bridge with crests 11 to 13 feet over flood stage. Less serious flooding of 2 to 3 feet occurred above and below this reach. Locally heavy rains on the 29th-30th helped to prolong this flooding into June.	0	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

MAY 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	WEST GULF OF MEXICO DRAINAGE-Cont'd		
	Severe flash flooding occurred near Corpus Christi the morning of the 1st. Chapman Ranch reported 7.5 inches of rain in 2 hours. People were rescued from cars and homes in the vicinity of Portland. From 1.5 to 2.5 inches in Corpus Christi caused urban flooding there.		
	GREAT BASIN		
Humboldt River	The snowpack in the headwaters of the Humboldt River was more than 150 percent of normal as of May 1. Melting of this snowpack during May produced minor lowland flooding around Winnemucca, Nevada, late in the month which continued into June. No flood stages have been established along the stream.	0	N.A.
Great Salt Lake Basin	An unseasonably heavy snowpack along the Wasatch Range in north central Utah caused a threat of serious flooding during May. However, only relatively minor flooding resulted due to a favorable temperature pattern during the month. Some residential damage was sustained along Emigration Creek in Salt Lake City and the lower Ogden River in Ogden which was estimated at $75,000. Flood protection costs were estimated at $125,000.	0	200
	PACIFIC SLOPE DRAINAGE		
Columbia River Basin	The spring of 1975 was unusually cool--the second coolest spring in 95 years of record at Spokane, Wash. As a result an unusually heavy snowpack was carried over into May. During the period of the 10th-16th temperatures ranged up to 13° above normal. Significant rises occurred on streams in all parts of the basin with minor farmland flooding along the Colville, Cour d'Lene, and Clark Fork Rivers. The Cour d'Lene River crested at flood stage on the 16th at Cataldo, Id. The Cohill River crested at 8.4 feet at Kettle Falls, Wash., where the established flood stage is 9 feet and the Clark Fork River also crested at 8.4 feet at Drummond, Mt., where no flood stage has been established. The Columbia River crested at 14.3 feet on the 19th at Vancouver, Wa., where flood stage is 16 feet. Due to the favorable temperature regime during the melting season this was the high stage for the year at Vancouver. The average stage at Vancouver was 2.8 feet, below the long term normal for May.	0	N.A.
	ALASKA		
Kuskokwim River	The Kuskokwim began its breakup the first week of May and the ice went out at McGrath on the 12th. An ice jam formed downstream of McGrath the same day causing McGrath to flood. The river crested at 23 feet, 2 feet over flood stage when the jam broke at 9 p.m. of that day. No damage informa-	0	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

MAY 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ALASKA-Cont'd		
	tion is available. The breakup of the ice jam completely flooded the village of Sleetmute downstream. The village runway was 80 percent flooded. On the 15th another major ice jam formed downstream of Aniak causing Aniak to flood. The jam held for 3 days and upon breaking, the resultant release of water flooded Upper Kalskag and Lower Kalskag. Additional jams occurred throughout the lower Kuskokwim as the breakup progressed to the mouth by the last week in May. Minor flooding occurred at Toluksak, Akiachak, Akiak, Kwethluk, Napakiak, Oscarville, and Napaiskak. Major flooding at Bethel raised the stage to 13.25 feet. Flood stage there is 9 feet. A total of 67 homes and 2 businesses in Bethel were flooded; and one home which was flooded also burned; 112 people were evacuated from Oscarville and Napakiak and at one time 135 persons were staying in temporary quarters in Bethel.		
Yukon River Basin	The spring breakup began ine first week in May on tributaries of the Yukon River. The Tenana River was the first to break up and reached bankfull stages along much of its reach but no flooding was reported. The Koyukuk River broke up quickly and uneventfully. No serious ice jams formed and no flooding was reported. The Chena River breakup was a very slow process with the ice melting and moving out of the lower Chena entirely within the first week of May. There were no reported ice jams of any consequence. Unseasonably warm temperatures occurred in the second week of May in the Tanana Valley and Upper Yukon Valleys. As a result, rapid rises were noted in the streams in which the ice had broken up, including the Chena, Chatanika, and Salcha rivers. The Chena River at 38 mile Chena Hot Springs Road rose to a stage of 20.7 feet, the highest recorded since the 1967 Fairbanks flood. Minor flooding and road washouts occurred in that vicinity, closing the road and isolating 2 small construction camps and 2 resort areas. Construction equipment had to be moved to safeguard it and evacuations of 8 individuals was necessary. During the "heat wave," Fairbanks temperature reached 80°, and the average temperature on the 12th was 20° over the normal for the day. Considerable ponding took place as a result of overbank flooding upstream of Fairbanks. A few homesteads were flooded but no buildings were reported damaged by water. The Chena at Fairbanks crested at 10.6 feet, 1.4 feet under flood stage. During the same period, the Salcha River at Salchaket crested at 15.8 feet, flooding a state campground and a few recreational cabins in the upper reaches. Damage was very slight. The Chatanika River also was overbanks and although one family was forced to leave their homestead, the only damage was reported at 50 mile Steese Highway where the road washed out. A campground at 38 mile	0	N.A.

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ALASKA-Cont'd		
	Steese Highway also flooded. Two villages and a resort area were cut off from ground transportation during the washout and flooding. The Yukon River began breakup in Alaska on the 11th. Primarily as a result of the higher than normal temperatures, breakup in the upper Yukon was quite rapid and, with the exception of minor flooding at Fort Yukon, uneventful. An ice jam at Fort Yukon caused a few streets in Fort Yukon to flood for 2 days but no damage was reported. A major ice jam occurred near Holycross on the Yukon River on the 18th of May and dammed the river for 6 days. The village of Anvik was flooded and 37 persons had to be evacuated to Bethel. The power plant, school, and 16 homes were flooded. Residents of Anvik referred to this flooding as the "worst in the history of the village." The previous high flood was in 1972, also from an ice jam at the same location. The water dammed behind the Holycross jam, joined the Yukon River with the Innoko, Bonasila, and Anvik rivers in one large lake estimated at an area of 1000 square miles. Grayling was also flooded by the jam. At Grayling, 2 houses were flooded and six basements filled with water. Eleven houses were surrounded by water and cut off from the remainder of the village. This was also Grayling's highest known flood. On the 24th, 2 ice jams downstream of Pilot Station caused flooding at Pilot Station and 22 houses were in water for 1 day. Ice jams at the mouth of the Yukon caused the villages of Emmonak and Alakanuk to flood on the 29th until the morning of the 31st. During the flooding at Emmonak, the runway was covered (6" at the high end), 36 houses received water damage above the first floor level, and 3 houses had physical damage from ice chunks or floes moving through the village. At Alakanuk 49 houses had water damage, 2 physical damage from ice floes and 5 fishing boats were crushed by ice. Transformers and utilidors of the new power system in Alakanuk were also flooded. A lake also formed on the delta at this time covering approximately 1045 square miles.		
Kobuk River	The town of Kobuk and its airstrip were completely flooded by backwater from ice jams. Residents were evacuated to Shungnak.	0	N.A.

FLOOD STAGE DATA

[illegible]

River and station	Flood stage	Above flood stage —dates From—	To—	Crest Stage	Date
	Ft			Ft.	
[illegible]					
[illegible]					
[illegible]	18	Apr 22	23	23.61	[illegible]
[illegible]	21	B	28	23.77	14
Foxholm 3 E, ND	10	Apr 23	1/	15.69	16
[illegible]	[illegible]	[illegible]	1/	20.35	14
[illegible]	[illegible]	[illegible]	[illegible]	1554.79	15
[illegible]	[illegible]	[illegible]	1/	37.14	14
[illegible]	[illegible]	Apr 28	[illegible]	23.72	[illegible]
[illegible]	1505MSL	B	1/	1508.22	16
Verendrye, ND	[illegible]	B	[illegible]	17.53	15
Bantry 8 E, ND	11	B	1/	[illegible]	26
Westhope 7 NE, ND	10	Apr 18	1	16.54	8
[illegible]					
[illegible]	6	Apr 17	3	10.56	Apr 19
Buffalo River:					
Hawley, MN	[illegible]	Apr 15	1	8.57	Apr 19
[illegible]	12	Apr 14	3	19.68	Apr 18
Wild Rice River:					
[illegible]	17	Apr [illegible]	[illegible]	29.37	Apr 21
[illegible]					
[illegible]	15	Apr 18	[illegible]	#21.30	Apr 19
Two Rivers River:					
[illegible]	[illegible]	Apr 30	[illegible]	804.5	3
[illegible]					
[illegible]	17	Apr 16	[illegible]	27.47	Apr 21
[illegible]	24	Apr 17	3	35.15	Apr 22
[illegible]	[illegible]	Apr 17	10	43.30	Apr 23
[illegible]	28	Apr 18	11	35.95	Apr [illegible]
Drayton, ND	32	Apr 21	17	39.80	5
[illegible]	42	Apr 29	15	#46.40	8
Emerson, Manitoba, Canada	81.5	Apr 30	15	#84.47	8
[illegible]					
Wolf:					
[illegible]	[illegible]	Apr 28	10	9.3	Apr [illegible]
[illegible]					
[illegible]	10	7	10	[illegible]	8,9
Tiffin:					
[illegible]	11	[illegible]	10	11.4	10
Cuyahoga:					
Independence, OH	16	22	22	[illegible]	22
ATLANTIC SLOPE DRAINAGE					
St. John:					
[illegible]	18	[illegible]	[illegible]	E19.5	14
[illegible]					
Chemung, NY	12	7	7	13.35	[illegible]
Roanoke:					
[illegible]	10	Mar [illegible]	[illegible]	12.1	Apr 15-23
Cape Fear:					
Elizabethtown, NC	20	21	21	20.1	21
Lumber:					
[illegible]	[illegible]	19	[illegible]	[illegible]	25
[illegible]					
[illegible]	[illegible]	19	20	[illegible]	19
Peedee, SC	[illegible]	7 21	9 25	19.3 20.7	8 23
Broad:					
Gaffney, SC	16	[illegible] [illegible]	19 [illegible]	10.6 [illegible]	19 30
ATLANTIC SLOPE DRAINAGE-Cont'd					
Broad-Continued:					
Blair, SC	14	[illegible] 17 [illegible] 31	[illegible] 17 20 [illegible]	19.8 16.0 16.1 20.1	[illegible] 17 20 31
South Fork Catawba:					
McAdenville, NC	10	30	31	12.2	30
Wateree:					
Wateree Reservoir, SC	[illegible]	5	[illegible]	101.0	[illegible]
North Fork Edisto:					
Orangeburg, SC	8	12 18	14 [illegible]	8.4 8.8	13 20
Edisto:					
Givhans Ferry, SC	[illegible]	18 20	18 26	[illegible] 10.9	[illegible] 23
Savannah:					
Clyo, GA	11	Jan 18 [illegible]	1 [illegible]	17.8 13.2	Mar 25-31 31
Ogeechee:					
Scarboro, GA	8	[illegible] [illegible]	8 19	8.3 8.0	[illegible] 19
[illegible]	[illegible]	[illegible] 23	14 [illegible]	9.4 9.4	11-12 [illegible]
[illegible]					
East Fork Tombigbee:					
Fulton, MS	16	17	20	17.3	18
Leaf:					
Beaumont, MS	20	8	14	24.1	11
Pascagoula:					
Merrill, MS	22	[illegible]	15	22.8	12
Bogue Chitto:					
[illegible]	11	9	10	16.90	[illegible]
Pearl:					
Jackson, MS	18	1	21	27.7	11
Monticello, MS	19	[illegible]	21	27.6	9
Columbia, MS	17	4	21	23.9	10
Bogalusa, LA	15	2	26	20.33	12
Pearl River, LA	12	5	27	E17.1	14
Upper Mississippi Basin					
South Fork Crow River:					
Delano, MN	8	Apr 23	13	12.70	1
Crow River:					
Rockford, MN	10	Apr 28	[illegible]	12.89	3
Rum River:					
St. Francis, MN	8	[illegible]	8	10.2	3
Minnesota River:					
Jordan, MN	20	[illegible]	11	23.75	[illegible]
Chaska, MN	18	Apr 26	11	21.80	5
Savage, MN	[illegible]	[illegible]	15	705.50	[illegible]
St. Croix River:					
[illegible]	87	Apr 28	4	87.27	Apr 30
Chippewa:					
Durand, WI	11	[illegible]	1	12.1	[illegible]
Trempealeau River:					
Dodge, WI	[illegible]	Apr 26	2	10.1	[illegible]
Black River:					
[illegible]	12	[illegible]	2	[illegible]	Apr 30
Kickapoo:					
Steuben, WI	[illegible]	[illegible]	[illegible]	9.37	Apr 30

FLOOD STAGE DATA

(All dates in May unless otherwise specified)

River and station	Flood stage	Above flood stages --dates		Crest	
		From–	To–	Stage	Date
	Ft.			Ft.	
Upper Mississippi Basin-Cont'd					
Wisconsin River:					
Portage, WI	17	Apr 29	1	17.26	Apr 30
Rock River:					
Afton, WI	9	Mar 20	[illegible]	11.25	Apr 1-2
Joslin, IL	12	1	2	12.0	1-2
Cedar River:					
Conesville, IA	11	Apr 29	9	#12.32	6
Iowa River:					
Marshalltown, IA	13	2	5	#14.00	4
West Fork Des Moines River:					
Humboldt, IA	8	Apr 28	3	9.11	Apr 30
North Raccoon River:					
Jefferson, IA	10	Apr 28	5	#12.8	Apr 28,29
Des Moines River:					
Stratford, IA	14	Apr 30	4	#17.6	1
Des Moines 14th St., IA	21	Apr 29	5	A#23.56	2
Illinois River:					
La Salle, IL	20	Apr 27	4	24.15	Apr 29
Peoria, IL	18	Apr 29	7	#19.7	1
Havana, IL	14	Apr 20	19	#17.0	3
Beardstown, IL	14	Apr 22	21	17.7	9
Meredosia, IL	32	Apr 24	20	#35.1	9
Bourbeuse River:					
Union, MO	15	8	10	18.9	[illegible]
Big River:					
Byrnesville, MO	16	8	9	16.4	8
Meramec River:					
Eureka, MO	18	8	10	#19.3	10
Valley Park, MO	16	8	11	#18.2	10
Mississippi River:					
Libby, MN	13	Apr [illegible]	28	16.08	9-10
Aitkin, MN	15	Apr 23	17	17.95	4
Ft. Ripley, MN	10	Apr 20	16	12.15	[illegible]
St. Paul, MN	14	Apr 29	9	15.50	4
Hastings, MN	15	Apr 25	10	17.10	4
Red Wing, MN	14	Apr [illegible]	7	14.90	1
Lake City, MN	16	Apr [illegible]	8	17.58	1
Wabasha, MN	12	Apr 24	12	14.93	1
Winona, MN	13	Apr 26	12	16.60	2
La Crosse, WI	12	Apr 27	12	14.51	2
McGregor, IA	18	Apr 30	11	21.12	5
Guttenberg, IA (Dam 10 TW)	15	Apr 29	14	19.38	5
Cassville, WI	17	1	[illegible]	19.95	6
Dubuque, IA	17	Apr 29	17	22.8	6
Sabula, IA	16	1	18	19.3	7
Clinton, IA	16	1	19	20.37	7-8
Camanche, IA	17	2	19	20.75	8-9
Le Claire, IA (Dam 14 TW)	11	2	17	14.03	9
Moline, IL (48th St.)	13.5	3	18	16.88	9
Davenport, IA	15	[illegible]	19	19.14	9
Muscatine, IA	16	2	20	[illegible]	9
Keithsburg, IL	12	1	21	17.05	9
Burlington, IA	15	2	21	18.6	9
Keokuk, IA (Dam 19 TW)	16	6	17	17.7	10
Gregory Landing, MO	15	4	21	18.25	10
Quincy, IL	17	4	22	20.9	9
Upper Mississippi Basin-Cont'd					
Mississippi River-Continued:					
Hannibal, MO	16	2	24	20.96	10
Louisiana, MO	15	3	24	19.52	10
Clarksville, MO (Dam 24 TW)	25	2	25	29.84	11
Winfield, MO (Dam 25 TW)	26	5	24	30.40	12
Grafton, IL	18	Apr 24 3	2 24	21.13 22.41	Apr 26 12
Alton, IL (Dam 26 TW)	21	Apr 25 8	1 17	24.49 23.14	Apr 27 11
Chester, IL	27	Apr 26 9	3 16	31.33 28.94	Apr 28 11
Cape Girardeau, MO	32	Apr 26 8	5 16	36.30 34.39	Apr 30 12
Thebes, IL	33	Apr 27 9	3 14	35.90 34.09	Apr 29 12
Missouri Basin					
Shields River:					
Clyde Park, MT	5	13	13	5.06	13
Knife River:					
Hazen, ND	21	Apr 29	1	22.56	1
James River:					
Columbia, SD	11	4	1/	13.18	15
Stratford, SD	14	[illegible]	1/	14.55	June10-11
Little Sioux River:					
Spencer, IA	10	Apr 23	2	13.8	Apr 28
Linn Grove, IA	12	Apr 26 14	5 16	17.85 12.75	Apr 29 15
Peterson, IA	15	Apr 28	2	18.6	Apr 30
Cherokee, IA	17	Apr 28	5	20.7	1
Correctionville, IA	19	Apr 27	3	20.46	2
Platte River:					
Agency, MO	20	30	31	21.38	31
Soldier Creek:					
Delia, KS	17	30	30	18.92	30
Grand River:					
Sumner, MO	26	30	1/	30.24	31
Missouri River:					
St. Charles, MO	25	7	9	25.4	8
Ohio Basin					
Licking:					
Salyersville, KY	18	19	19	#18.19	19
North Fork Kentucky:					
Neon, Ky.	8	23	23	E13.0	23
Green:					
Livermore, KY	20	Apr 28	5	E20.8	2
Calhoun, KY	23	Apr 27	6	E25.7	3
Spottsville, KY	27	Apr 27	7	E32.1	2
Embarras:					
Lawrenceville, IL	11	Apr 24	1	14.07	Apr 29
White:					
Spencer, IN	14	1	2	14.65	1
Edwardsport, IN	15	Apr 25	4	19.2	Apr 29
Petersburg, IN	16	Apr 25	5	20.32	1
Hazelton, IN	16	Apr 25	6	20.75	2
Little Wabash:					
Wilcox, IL	16	Apr 24	1	#20.83	Apr 26
Wabash:					
Mt. Carmel, IL	17	Apr 27	5	18.28	3

FLOOD STAGE DATA

[illegible]	[illegible]	[illegible] —dates		[illegible]	
		[illegible]	[illegible]	[illegible]	[illegible]
[illegible]				[illegible]	
[illegible]					
[illegible]	[illegible]	[illegible]	[illegible]	8.9	[illegible]
Blantyre, NC	[illegible]	[illegible]	[illegible]	#18.5	[illegible]
[illegible]					
[illegible]	[illegible]	[illegible]	[illegible]	#17.5	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	Apr 27	[illegible]	#41.60	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	#41.1	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	#41.8	[illegible]
[illegible]	[illegible]	Apr 28	[illegible]	#40.7	[illegible]
Cairo, IL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
White Basin					
[illegible]					
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
[illegible]					
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
White:					
[illegible]	[illegible]	[illegible]	[illegible]	A31.75	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	24.7	[illegible]
[illegible]	[illegible]	Mar [illegible]	23	A28.55	[illegible]
St. Charles, AR	[illegible]	Mar [illegible]	[illegible]	A26.8	[illegible]
Arkansas Basin					
[illegible]					
Dover, OK	[illegible]	[illegible]	[illegible]	18.90 #17.1	[illegible]
Guthrie, OK	[illegible]	[illegible]	[illegible]	#12.51 [illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Bird Creek:					
Avant, OK	[illegible]	[illegible]	[illegible]	#19.50 #19.8	[illegible]
Sperry, OK	[illegible]	[illegible]	[illegible]	27.37 22.31	[illegible]
Owasso, OK	[illegible]	[illegible]	[illegible]	#28.1 #25.99	[illegible]
Little:					
Tecumseh, OK	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]					
Beggs, OK	[illegible]	[illegible]	[illegible]	18.76 #22.43	[illegible]
North Canadian:					
Watonga, OK	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Poteau:					
Panama, OK	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]					
[illegible]					
Waurika, OK	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Blue:					
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
Sulphur:					
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible] 23.65	[illegible]
[illegible]					
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Camden, AR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	42.24 44.19	[illegible] 18-19
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]	[illegible]	[illegible]		[illegible]	
		[illegible]	[illegible]	[illegible]	[illegible]
[illegible]					
[illegible]					
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Acme, LA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]					
St. Francis:					
St. Francis, AR	[illegible]	[illegible]	[illegible]	[illegible] 18	[illegible]
[illegible]					
[illegible]	[illegible]	[illegible]	[illegible]	33	[illegible]
[illegible]					
[illegible]	[illegible]	[illegible]	[illegible]	17	[illegible]
Bovina, MS	[illegible]	[illegible]	[illegible]	34	[illegible]
Mississippi:					
[illegible]	34	Apr 29	[illegible]	[illegible]	[illegible]
Caruthersville, MO	32	Apr 29	[illegible]	#35	[illegible]
Vicksburg, MS	43	13	[illegible]	[illegible]	[illegible]
Natchez, MS	48	11	[illegible]	48.8	[illegible]
Red River Landing, LA	45	Mar 20	[illegible]	[illegible]	[illegible]
Baton Rouge, LA	35	Mar 24	[illegible]	[illegible]	Apr 14-15
Donaldsonville, LA	[illegible]	[illegible]	[illegible]	28	19-20
[illegible]					
[illegible]					
Morgan City, LA	[illegible]	[illegible]	[illegible]	7	[illegible]
Calcasieu:					
Hineston, LA	[illegible]	[illegible]	[illegible]	[illegible]29 15	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	15.09	[illegible]
Kinder, LA	[illegible]	[illegible]	[illegible]	[illegible]56	[illegible]
Sabine:					
Emory, TX		[illegible]	[illegible]	12.90	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]25	[illegible]
Bon Weir, TX	[illegible]	[illegible]	[illegible]	21.39 17.21	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Attoyac Bayou:					
Chireno, TX (near)	[illegible]	[illegible]	[illegible]		[illegible]
[illegible]					
Lufkin, TX (near)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Neches:					
Alto, TX (near)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Diboll, TX (near)	10	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	4.2	31
East Fork Trinity:					
[illegible]	[illegible]	[illegible]	[illegible]	13.22 13.54 13.99	[illegible]
Chambers Creek:					
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
Trinity:					
[illegible]	[illegible]	[illegible]	[illegible]	32.39	[illegible]
Long Lake, TX	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]					
[illegible]terly, TX (near)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Bryan, TX (near)	[illegible]				
Colorado:					
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

FLOOD STAGE DATA

(All dates in May unless otherwise specified)

River and station	Flood stage	Above flood stages —dates From	Above flood stages —dates To	Crest Stage	Crest Date
	Ft			Ft	
WEST GULF OF MEXICO DRAINAGE-Cont'd					
Navidad:					
Ganado, TX (near)	21	25	1/	28.96	27
Lavaca:					
Edna, TX (near)	21	25	28	23.35	27
San Marcos:					
Luling, TX	24	8	11	25.8	9
Guadalupe:					
Gonzales, TX	20	10 24	12 28	23.1 33.6	11 25
Cuero USGS, TX	20	10 25	15 31	22.4 31.6	13 27
Victoria, TX	21	10 25	17 1/	26.4 28.85	14,15 29
Dupont, TX	20	1 25	23 1/	26.5 27.0	16 30,31
Atascosa:					
Whitsett, TX	20	25	U	31.0	26
Frio:					
Tilden, TX	12	U	U	18.98	28
Calliham, TX	12	U	1/	26.02	27
Nueces:					
Tilden, TX (11S)	14	24 30	28 1/	16.86 17.54	26 June 14
Three Rivers, TX (near)	25	25	31	36.60	28
Mathis Bridge, TX	15	26	1/	28.23	29
Calallen, TX	7	27	1/	9.04	31
PACIFIC SLOPE DRAINAGE					
Coeur D Alene:					
Cataldo, ID	43	16	16	43.0	16
ALASKA					
Kuskokwim:					
McGrath, AK	21	12	12	23.23	12
Aniak, AK	67	15	18	90.60	18
Akiak, AK	95	18	26	U	20
Bethel, AK	9	20	24	13.25	22
Oscarville, AK	U	20	23	[illegible]	21
Yukon:					
Fort Yukon, AK	99	13	15	99.7	15
Grayling, AK	90	20	22	[illegible]	20
Anvik, AK	U	19	26	101.3	22
Pilot Station, AK	92	20	26	99.0	25
Kobuk:					
Kobuk	96	14	16	U	[illegible]

A See Previous Monthly Reports for Additional Crest Information.

B In Flood at Beginning of Month Initial Date Unknown.

RAWINSONDE DATA

Average monthly values

MAY 1975

ALBANY, NY
1000 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	29	96	13.5	11.0	19	1.9
1000	27	143	13.0	8.1	19	1.4
950	29	571	13.7	5.6	23	1.8
900	29	1,026	12.0	3.6	28	3.0
850	29	[illegible]	[illegible]	1.5	30	3.9
800	29	[illegible]	6.0	-1.5	30	4.9
750	29	2,528	3.5	-6.3	30	5.8
700	29	3,085	-.2	-10.6	29	6.3
650	29	3,675	-3.3	-15.7	29	6.9
600	29	4,304	-6.7	-20.4	29	7.9
550	29	4,979	-10.6	-25.2	28	8.8
500	29	5,716	-15.0	-29.8	28	9.7
450	28	6,495	-20.4	-33.6	28	10.6
400	29	7,356	-26.8	-38.7	28	11.9
350	29	8,308	-34.1	-43.3	28	12.9
300	29	9,356	-42.3	-49.4	28	16.6
250	28	10,581	-50.7		29	20.4
200	28	12,011	-57.3		29	20.9
175	28	12,851	-59.1		29	19.8
150	28	13,820	-58.1		28	14.8
125	27	14,963	-58.4		29	15.1
100	26	16,364	-59.6		29	11.8
80	26	17,761	-58.8		30	7.6
70	26	18,601	-58.5		30	5.4
60	23	19,573	-57.7		31	4.2
50	22	20,732	-55.8		03	3.0
40	22	[illegible]	-54.1		05	2.5
30	20	[illegible]	-51.9		08	2.8
25	20	25,196	-50.5		07	3.0
20	19	26,658	-48.7		05	2.6
15	16	28,563	-45.2		09	4.2
10	8	31,301	-39.8			

ALBUQUERQUE, NM
835 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	1,619	[illegible]	-3.4	09	.8
800	31	1,980	[illegible]	-6.0	23	1.7
750	31	2,515	7.7	-9.4	26	3.9
700	31	3,079	3.5	-11.8	27	6.2
650	31	3,675	-1.2	-15.3	26	7.5
600	31	4,307	-6.2	-18.7	25	9.5
550	31	4,981	-11.3	-22.4	25	10.9
500	31	5,706	-16.0	-28.4	25	12.4
450	31	6,491	-21.3	-34.7	25	13.8
400	31	7,349	-27.6	-40.1	25	15.1
350	30	8,299	-34.9	-47.3	25	15.5
300	30	9,353	-43.3		25	17.0
250	30	10,557	-51.6		25	19.5
200	30	11,985	-56.7		26	19.4
175	30	12,828	-57.8		25	18.3
150	30	13,802	-57.7		25	16.8
125	30	14,949	-59.1		25	15.1
100	30	16,345	-60.1		25	10.7
80	30	17,734	-60.9		25	5.2
70	30	18,504	-61.3		24	2.3
60	29	19,525	-60.3		24	.3
50	29	20,667	-58.6		08	1.8
40	29	22,075	-56.5		09	2.2
30	29	23,917	-53.0		08	3.6
25	29	25,098	-51.3		08	3.8
20	28	26,551	[illegible]		08	2.2
15	26	28,454	-45.0		07	1.3
10	21	31,186	-40.2		26	1.5
7	7	33,647	-36.8			

AMARILLO, TX
888 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	[illegible]	[illegible]	[illegible]	22	1.5
850	31	1,464	13.9	[illegible]	22	4.9
800	31	1,973	11.8	-.6	25	6.0
750	31	2,511	8.9	-4.9	25	6.7
700	31	3,078	5.0	-9.9	26	6.6
650	31	3,678	.4	-13.6	25	7.3
600	31	4,314	-4.5	-16.9	25	8.9
550	31	4,993	-9.5	-21.4	25	10.7
500	31	5,722	-14.7	-28.6	25	11.9
450	31	6,511	-20.3	-34.8	25	13.0
400	31	7,372	-27.0	-39.9	25	14.6
350	31	8,323	-34.3	-45.4	24	16.1
300	31	9,381	-42.4		24	17.1
250	30	10,586	-51.1		24	21.6
200	30	12,013	-57.7		24	24.5
175	30	12,852	-59.0		25	22.2
150	30	13,822	-58.2		25	18.9
125	30	14,967	-59.4		25	16.5
100	30	16,359	-60.8		25	10.2
80	29	17,741	-61.8		24	5.5
70	29	18,567	-61.7		24	1.9
60	29	19,524	-60.5		12	1.0
50	28	20,662	-58.7		09	2.4
40	28	22,072	-56.1		08	2.9
30	27	23,915	-52.5		07	2.9
25	26	25,100	-50.6		08	2.2
20	22	26,563	-47.4		05	2.1
15	16	28,471	-43.9		02	2.1
10	7	31,196	-40.5			

• ANCHORAGE, AK
[illegible] MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	65	[illegible]	[illegible]	17	1.6
1000	25	126	[illegible]	-1.3	17	1.5
950	31	517	4.2	-3.2	14	2.4
900	31	955	1.6	-4.7	12	2.9
850	31	1,413	[illegible]	-6.1	12	4.6
800	31	1,892	-5.2	-8.4	13	6.3
750	31	2,397	-8.5	-11.7	13	7.7
700	31	2,929	-11.7	-15.0	14	8.8
650	31	3,493	-15.2	-19.1	13	9.3
600	31	4,094	-18.7	-24.3	14	9.3
550	31	4,737	-23.0	-29.5	14	8.4
500	31	5,429	-27.6	-34.6	14	8.2
450	31	6,179	-32.8	-38.7	14	9.2
400	31	6,998	-38.8	-42.2	15	9.3
350	31	7,905	-45.0		15	9.2
300	31	8,920	-50.2		15	9.8
250	31	10,106	-50.6		17	8.8
200	31	11,573	-47.4		18	6.3
175	31	12,458	-46.9		19	4.8
150	31	13,479	-47.4		19	4.4
125	31	14,686	-47.9		19	4.2
100	31	16,152	-48.7		19	3.7
80	30	17,616	-49.5		18	3.1
70	30	18,490	-49.6		17	3.1
60	30	19,498	-50.3		16	2.8
50	30	20,688	-50.4		14	2.3
40	29	22,142	-50.5		11	3.1
30	29	24,020	-50.4		10	3.9
25	28	25,206	-49.8		09	5.1
20	28	26,670	-48.9		09	5.3
15	26	28,574	-46.7		09	6.6
10	23	31,301	-41.7		09	6.8

• ANNETTE, AK
1012 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	25	37	5.2	2.0	[illegible]	[illegible]
1000	24	142	5.9	2.0	[illegible]	[illegible]
950	25	555	3.2	[illegible]	[illegible]	[illegible]
900	25	992	.0	-2.5	[illegible]	[illegible]
850	25	1,449	-1.8	-6.0	[illegible]	[illegible]
800	25	1,929	-4.5	-9.9	[illegible]	4.9
750	25	2,435	[illegible]	-15.0	[illegible]	4.9
700	25	2,970	-10.1	-19.8	[illegible]	[illegible]
650	25	3,538	-13.4	[illegible]	[illegible]	[illegible]
600	25	4,143	-17.1	-25.1	[illegible]	[illegible]
550	25	4,791	-20.9	-28.4	23	[illegible]
500	25	5,488	-25.5	-32.5	[illegible]	[illegible]
450	25	6,245	[illegible]	-37.5	24	9.4
400	25	[illegible]	-36.0	[illegible]	[illegible]	[illegible]
350	25	[illegible]	-42.0	-42.3	[illegible]	[illegible]
300	25	[illegible]	[illegible]		[illegible]	[illegible]
250	25	10,212	-50.8		[illegible]	14.2
200	25	11,652	[illegible]		[illegible]	[illegible]
175	25	12,533	[illegible]		26	9.9
150	25	13,540	-49.8		26	7.7
125	25	14,730	-50.8		25	6.2
100	25	16,181	[illegible]		25	4.1
80	25	17,620	[illegible]		24	2.5
70	25	18,488	-52.7		22	[illegible]
60	25	19,484	-52.6		[illegible]	[illegible]
50	24	[illegible]	[illegible]		[illegible]	.6
40	24	22,098	-52.6		08	.9
30	22	[illegible]	[illegible]		08	4.0
25	18	[illegible]	[illegible]		09	3.5
20	18	[illegible]	-49.4		[illegible]	[illegible]
15	18	28,505	-46.7		09	[illegible]
10	11	31,235	-42.3			

ATHENS, GA
986 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	246	17.4	15.8	33	.5
1000						
950	31	557	18.9	13.4	25	1.8
900	31	1,031	16.8	11.0	24	3.3
850	31	1,517	13.9	7.0	24	4.2
800	31	2,026	11.0	1.7	25	4.8
750	31	2,562	7.7	-3.6	25	5.1
700	31	3,127	4.1	-8.7	26	6.2
650	31	3,726	.4	-11.7	26	7.0
600	31	4,363	-3.4	-16.1	27	7.5
550	31	5,046	-7.2	-22.4	27	8.0
500	31	5,783	-11.8	-28.8	27	8.3
450	31	6,582	-17.0	-32.2	27	10.1
400	31	7,454	-23.2	-36.4	27	11.3
350	31	8,420	-30.3	-42.3	27	12.3
300	31	9,494	-38.5	-48.7	27	15.4
250	30	10,728	-48.3		27	19.5
200	30	12,104	-57.9		28	23.5
175	30	12,999	-61.2		28	21.5
150	30	13,956	-61.4		28	18.5
125	30	15,063	-62.9		28	17.1
100	30	16,454	-64.4		28	10.9
80	30	17,813	-65.5		29	4.9
70	30	18,627	-64.4		31	3.0
60	30	19,574	-62.7		02	2.0
50	30	20,706	-59.8		06	3.1
40	30	22,110	-57.1		07	3.5
30	30	23,947	-53.4		08	4.0
25	29	25,128	-51.1		09	3.3
20	27	26,587	-48.4		09	2.9
15	25	28,489	-45.6		05	.9
10	19	31,202	-40.7		29	4.5
7	7	33,613	-35.6			

• BARROW, AK
1019 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	8	-8.3	-9.3	08	3.1
1000	30	158	-8.0	-9.2	09	4.7
950	31	553	-6.5	-10.6	09	5.2
900	31	977	-5.2	-13.5	10	4.2
850	31	1,425	-5.5	-15.3	11	3.5
800	31	1,900	-7.3	-17.6	12	3.1
750	31	2,400	-10.0	-19.8	13	3.1
700	31	2,929	-12.8	-22.7	15	2.5
650	31	3,491	-16.1	-25.2	16	2.8
600	31	4,089	-20.0	-28.7	17	3.2
550	31	4,729	-24.3	-33.1	17	3.9
500	30	5,412	-29.3	-38.1	17	4.4
450	30	6,157	-34.5	-41.9	17	5.7
400	30	6,969	-40.5	-45.8	18	6.2
350	30	7,871	-46.1		19	6.9
300	30	8,882	-50.7		20	7.0
250	30	10,070	-50.0		21	5.8
200	30	11,540	-46.7		20	4.4
175	30	12,427	-46.1		20	4.1
150	30	13,452	-46.2		20	3.7
125	30	14,602	-47.0		19	4.2
100	30	16,139	-47.3		19	3.6
80	29	17,619	-46.9		17	2.8
70	29	18,505	-46.8		17	2.7
60	28	19,528	-47.1		15	2.6
50	28	20,736	-47.0		14	3.0
40	24	22,211	-47.2		11	3.0
30	21	24,110	-46.8		10	3.7
25	16	25,326	-46.7		09	4.3
20	8	26,819	-45.9			

BARTER ISLAND, AK
1016 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	15	-6.9	-7.8	08	3.2
1000	29	147	-7.3	-7.5	09	4.6
950	31	538	-4.9	-8.5	10	5.5
900	31	966	-2.3	-12.2	11	4.2
850	31	1,420	-3.0	-12.6	12	3.2
800	31	1,898	-5.0	-14.2	12	2.6
750	31	2,403	-7.8	-16.0	15	1.6
700	31	2,936	-11.0	-19.6	20	1.7
650	31	3,502	-14.3	-22.2	20	1.8
600	31	4,105	-18.0	-27.3	21	2.0
550	31	4,750	-22.2	-30.9	22	2.7
500	31	5,444	-26.9	-35.6	23	3.0
450	31	6,196	-32.4	-39.6	22	4.6
400	31	7,016	-38.6	-45.5	22	4.9
350	31	7,923	-45.0		22	4.8
300	30	8,941	-51.3		23	6.3
250	30	10,121	-51.3		24	7.4
200	30	11,583	-47.4		23	5.6
175	30	12,468	-46.7		23	4.9
150	30	13,491	-46.8		22	4.3
125	30	14,698	-47.5		22	3.4
100	30	16,172	-47.7		21	2.6
80	30	17,647	-47.5		19	2.6
70	30	18,530	-47.4		18	2.3
60	30	19,550	-47.4		16	1.9
50	30	20,755	-47.5		14	2.3
40	30	22,231	-47.4		10	2.5
30	29	24,135	-46.9		09	3.5
25	29	25,344	-46.7		09	4.4
20	29	26,826	-46.2		10	4.9
15	25	28,743	-44.6		09	5.5
10	17	31,504	-39.1		08	7.5
7	7	34,059	-32.7			

BETHEL, AK
1005 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	39	1.3	-.6	34	1.7
1000	20	114	2.4	-1.1	33	1.8
950	31	492	1.6	-3.5	08	1.8
900	31	926	-1.0	-6.6	12	2.6
850	31	1,379	-3.9	-8.7	13	3.3
800	31	1,856	-6.6	-11.6	13	4.7
750	31	2,357	-9.6	-14.4	13	5.0
700	31	2,887	-12.7	-17.9	12	4.9
650	31	3,449	-16.1	-21.6	12	5.3
600	31	4,047	-19.9	-26.7	12	5.9
550	31	4,688	-24.0	-31.2	11	6.2
500	31	5,377	-28.6	-36.8	11	6.4
450	31	6,124	-33.7	-41.6	12	6.9
400	31	6,940	-39.7	-45.7	12	6.2
350	31	7,843	-45.8		12	5.3
300	30	8,850	-50.6		14	4.3
250	30	10,038	-49.6		17	3.1
200	30	11,513	-45.9		19	2.1
175	30	12,402	-46.1		21	2.0
150	30	13,426	-46.6		19	2.0
125	30	14,633	-48.0		20	2.1
100	30	16,101	-48.7		19	2.4
80	30	17,566	-49.3		17	2.3
70	30	18,442	-49.5		17	2.6
60	30	19,452	-49.7		16	2.2
50	30	20,644	-50.1		14	2.8
40	30	22,102	-50.1		12	2.7
30	30	23,982	-50.1		10	3.4
25	29	25,179	-49.5		10	3.6
20	28	26,644	-48.8		10	4.4
15	24	28,561	-46.6		09	4.4
10	14	31,320	-41.0		08	4.7

• BISMARCK, ND
953 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	503	7.1	3.9	05	[illegible]
950	21	556	[illegible]	2.7	02	.6
900	31	976	9.0	1.0	02	.3
850	31	1,448	7.2	-1.5	27	1.9
800	31	1,945	4.3	-3.8	27	2.0
750	31	2,463	1.3	-6.8	25	3.5
700	31	3,019	-2.0	-11.0	25	5.3
650	31	3,605	-5.6	-14.3	25	6.7
600	31	4,229	-9.6	-19.3	25	7.9
550	31	4,895	-14.0	-24.1	25	9.5
500	31	5,612	-18.7	-30.2	25	10.7
450	31	6,390	-24.1	-35.9	25	10.9
400	31	7,230	-30.6	-42.0	25	12.1
350	31	8,175	-37.7	-46.2	25	13.4
300	31	9,219	-45.4		24	15.1
250	31	10,415	-52.4		24	16.0
200	31	11,846	-54.7		24	14.8
175	31	12,701	-54.2		25	11.9
150	31	13,692	-53.6		25	10.2
125	31	14,863	-54.0		25	7.9
100	31	16,292	-55.1		26	5.8
80	31	17,715	-55.9		26	3.9
70	31	18,566	-55.7		27	2.7
60	31	19,547	-56.0		28	1.4
50	31	20,708	-55.2		03	.5
40	30	22,140	-54.1		07	2.1
30	29	23,991	-52.4		07	3.0
25	28	25,179	-50.8		06	3.0
20	26	26,637	-49.2		08	4.3
15	21	28,531	-46.2		07	4.2
10	14	31,272	-41.7			

BOISE, ID
914 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	871	8.0	1.6	23	.4
1000						
950						
900	31	1,000	9.9	-.3	32	1.0
850	31	1,474	8.1	-3.0	32	3.4
800	31	1,971	4.7	-5.3	32	3.7
750	31	2,494	.9	-7.6	32	4.7
700	31	3,045	-2.7	-10.6	31	5.9
650	31	3,629	-6.2	-15.2	30	6.9
600	31	4,251	-9.9	-19.6	30	8.3
550	31	4,917	-14.2	-24.1	29	9.2
500	31	5,633	-19.3	-27.9	29	10.3
450	31	6,408	-24.9	-33.9	29	10.5
400	31	7,253	-31.2	-40.4	29	11.9
350	31	8,189	-38.1	-44.8	29	13.3
300	30	9,226	-45.3		30	15.8
250	30	10,423	-52.2		30	17.9
200	30	11,851	-55.9		30	14.6
175	30	12,702	-55.8		29	12.9
150	30	13,636	-54.9		29	10.8
125	30	14,850	-55.7		29	6.7
100	30	16,266	-56.9		28	5.3
80	30	17,680	-56.8		27	2.3
70	30	18,527	-56.9		28	1.6
60	30	19,506	-56.8		33	.7
50	30	20,659	-57.0		03	1.2
40	30	22,077	-55.4		07	2.6
30	29	23,923	-53.1		07	2.8
25	26	25,106	-51.1		07	3.0
20	24	26,565	-49.0		07	4.1
15	23	28,462	-46.1		08	4.2
10	17	31,186	-40.2		05	2.1

BOOTHVILLE, LA
1013 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	1	22.5	20.9	17	.6
1000	31	117	23.0	19.9	16	1.1
950	31	564	20.8	15.2	18	3.1
900	31	1,030	18.6	9.2	18	3.8
850	31	1,519	16.1	4.6	19	3.7
800	31	2,032	13.4	.8	20	3.5
750	31	2,572	10.3	-3.2	21	4.1
700	31	3,143	6.9	-6.4	23	5.6
650	31	3,749	3.5	-10.5	25	6.0
600	31	4,393	-.7	-14.7	26	7.7
550	31	5,082	-5.3	-19.7	26	9.7
500	31	5,823	-10.8	-22.2	26	10.7
450	31	6,626	-15.7	-28.8	25	11.9
400	31	7,504	-21.6	-35.1	25	14.2
350	30	8,477	-28.3	-39.5	27	17.1
300	30	9,561	-36.7	-46.6	27	19.5
250	29	10,797	-46.5		27	25.1
200	29	12,243	-56.9		27	31.7
175	29	13,081	-61.2		28	31.7
150	29	14,030	-64.0		27	29.0
125	29	15,144	-65.7		27	21.2
100	29	16,491	-68.8		27	11.3
80	29	17,820	-69.9		27	3.8
70	29	18,619	-67.6		21	1.3
60	29	19,556	-64.0		07	2.1
50	28	20,682	-59.9		08	3.4
40	27	22,087	-56.8		07	4.3
30	24	23,924	-53.0		08	6.0
25	22	25,109	-50.4		09	5.8
20	22	26,576	-47.2		10	5.4
15	20	28,498	-43.7		08	4.1
10	14	31,247	-39.3			

• BROWNSVILLE, TX
1009 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	7	24.3	22.0	13	2.3
1000	31	82	24.5	22.9	14	3.3
950	31	532	22.5	18.8	15	7.3
900	31	1,003	21.0	12.0	17	7.3
850	31	1,497	19.5	7.9	18	6.8
800	31	2,017	16.8	3.4	19	[illegible]
750	31	2,564	14.1	-2.5	21	5.1
700	31	3,142	10.2	-5.9	23	4.5
650	31	3,753	5.7	-9.6	24	4.9
600	31	4,402	.9	-12.9	26	6.5
550	31	5,095	-4.5	-17.0	27	8.7
500	31	5,838	-10.1	-21.1	27	10.1
450	31	6,643	-15.0	-26.8	27	10.6
400	31	7,524	-20.9	-32.7	26	14.7
350	31	8,500	-27.9	-39.7	26	19.2
300	31	9,596	-36.0	-48.3	25	22.7
250	30	10,824	-46.0		26	26.6
200	30	12,274	-56.5		26	33.5
175	30	13,112	-61.2		26	33.3
150	30	14,059	-65.3		26	29.7
125	30	15,161	-68.3		26	20.8
100	30	16,492	-71.0		25	10.9
80	30	17,808	-71.6		22	2.1
70	30	18,602	-68.3		11	3.2
60	[illegible]	19,537	-63.9		09	5.7
50	29	20,668	-59.4		09	5.1
40	29	22,074	-56.5		08	5.6
30	28	23,920	-51.7		08	8.8
25	27	25,111	-49.2		09	9.9
20	24	26,584	-46.4		09	8.7
15	17	28,506	-41.7		09	8.2

BUFFALO, NY
989 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	30	218	13.2	10.3	18	1.7
950	30	558	14.6	6.2	23	2.5
900	30	1,014	12.6	3.4	26	2.9
850	30	1,491	9.5	.9	27	3.0
800	30	1,992	6.6	-2.1	26	3.8
750	30	2,519	3.5	-7.4	26	4.5
700	30	3,077	.5	-10.1	26	5.6
650	30	3,668	-2.8	-13.7	27	6.6
600	30	4,298	-6.7	-17.0	27	7.5
550	30	4,973	-10.7	-21.5	27	8.2
500	30	5,699	-15.5	-27.6	27	9.0
450	30	6,487	-20.6	-33.3	27	11.0
400	30	7,368	-26.7	-39.6	27	11.7
350	30	8,300	-34.1	-43.8	27	13.3
300	30	9,357	-42.4	-48.7	27	17.0
250	30	10,566	-51.1		27	20.3
200	30	11,996	-57.2		28	20.1
175	30	12,839	-58.1		28	17.4
150	30	13,812	-57.1		27	15.1
125	30	14,964	-58.0		28	13.1
100	30	16,367	-58.6		29	9.0
80	30	17,767	-59.0		29	7.0
70	30	18,607	-58.3		30	5.1
60	30	19,579	-57.6		32	3.2
50	30	20,734	-56.0		[illegible]	2.4
40	30	22,160	-54.3		06	2.5
30	27	[illegible]	[illegible]		08	3.6
25	27	25,206	-50.3		07	4.4
20	23	[illegible]	-47.9		08	4.5
15	16	28,592	-43.7		08	4.8

CAPE HATTERAS, NC
1015 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	4	18.7	17.3	02	.9
1000	31	131	19.4	15.5	36	.7
950	31	572	17.9	12.2	29	1.0
900	31	1,034	15.3	8.3	29	2.4
850	30	1,517	[illegible]	6.0	29	3.5
800	30	2,024	9.0	2.1	28	4.6
750	30	2,556	6.0	-2.0	28	5.4
700	30	3,121	3.4	-6.6	28	5.9
650	30	3,719	[illegible]	-9.9	28	7.3
600	30	4,357	-3.3	-14.9	28	7.4
550	30	5,040	-7.7	-20.2	28	8.4
500	30	5,776	-11.7	-25.2	28	9.8
450	30	6,575	-16.9	-30.5	28	11.2
400	30	7,449	-22.9	-36.2	28	13.0
350	30	8,415	-30.2	-42.7	28	[illegible]
300	30	9,491	[illegible]	-48.3	28	[illegible]
250	30	10,715	[illegible]		28	[illegible]
200	30	12,149	-58.5		29	18.7
175	29	12,980	-61.5		29	17.6
150	29	13,941	-62.2		28	16.2
125	29	15,068	-62.4		29	13.9
100	29	[illegible]	-63.7		[illegible]	[illegible]
80	28	[illegible]	-63.2		[illegible]	5.3
70	28	[illegible]	-62.0		33	3.5
60	28	19,587	-61.1		[illegible]	2.0
50	28	20,728	-58.1		[illegible]	[illegible]
40	28	[illegible]	-55.7		07	4.2
30	28	[illegible]	[illegible]		[illegible]	[illegible]
25	26	[illegible]	-49.8		[illegible]	3.2
20	24	26,644	-46.0		[illegible]	[illegible]
15	[illegible]	[illegible]	-44.5		[illegible]	[illegible]
10	15	31,310	-39.4		36	[illegible]

RAWINSONDE DATA

Average monthly values

MAY 1975

* CARIBOU, ME
991 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.P.H.
SFC	31	191	7.9	3.8	05	.1
1000						
950	31	540	8.0	1.6	29	.4
900	31	986	6.8	.0	31	2.2
850	31	1,454	4.9	-2.8	32	3.2
800	31	1,948	3.1	-5.7	31	4.0
750	31	2,468	.5	-9.4	31	5.6
700	31	3,020	-2.1	-15.3	31	6.8
650	31	3,606	-4.9	-19.4	30	7.8
600	31	4,231	-8.4	-22.2	30	8.5
550	31	4,901	-12.3	-25.2	29	10.4
500	31	5,623	-17.2	-29.4	29	11.6
450	31	6,404	-22.8	-34.8	29	13.2
400	31	7,257	-29.2	-41.2	29	15.2
350	31	8,200	-36.4	-46.6	29	16.8
300	31	9,248	-44.7		29	18.9
250	30	10,450	-53.0		29	19.7
200	30	11,868	-57.8		29	20.5
175	30	12,712	-56.8		29	14.9
150	30	13,694	-55.1		29	15.0
125	30	14,858	-55.6		30	12.7
100	30	16,277	-56.4		29	9.6
80	30	17,695	-55.9		30	6.8
70	30	18,547	-55.0		31	5.1
60	30	19,533	-54.7		31	2.9
50	29	20,701	-53.8		36	1.0
40	28	22,139	-52.7		07	1.3
30	26	24,000	-51.4		03	2.8
25	26	25,187	-50.5		08	3.8
20	25	26,650	-48.9		10	4.4
15	21	28,543	-45.4		10	2.8
10	19	31,274	-40.0		09	1.6
7						

CENTREVILLE, AL
998 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.P.H.
SFC	31	140	17.9	15.9	05	.6
1000	11	145	18.5	17.2	02	1.4
950	31	505	19.7	13.6	22	2.6
900	31	1,029	16.9	10.6	22	4.4
850	31	1,514	14.2	5.6	23	4.6
800	31	2,025	11.8	.5	24	4.5
750	31	2,562	8.4	-3.8	24	4.1
700	31	3,128	4.7	-7.2	25	4.9
650	31	3,729	1.0	-11.1	25	5.5
600	31	4,368	-2.9	-17.2	26	5.7
550	31	5,052	-7.1	-20.9	27	7.4
500	31	5,788	-11.9	-24.9	27	9.0
450	31	6,587	-17.1	-29.8	27	10.7
400	31	7,459	-23.3	-35.2	26	12.2
350	31	8,425	-30.4	-42.1	26	14.3
300	30	9,502	-38.4	-47.5	27	16.8
250	29	10,733	-48.1		27	21.3
200	29	12,170	-58.1		28	28.7
175	29	13,005	-61.0		28	26.8
150	29	13,960	-61.8		29	23.0
125	29	15,085	-63.2		27	16.3
100	29	16,449	-65.5		27	11.3
80	29	17,800	-66.9		27	4.4
70	29	18,609	-65.4		27	2.3
60	29	19,553	-63.1		04	2.5
50	29	20,683	-59.7		07	4.2
40	29	22,088	-56.9		07	4.3
30	29	23,928	-52.6		08	5.2
25	29	25,112	-50.3		09	4.1
20	28	26,578	-47.5		10	2.6
15	27	28,490	-45.0		08	1.8
10	22	31,220	-40.0		36	2.4
7	7	33,654	-37.3			

CHARLESTON, SC
1014 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.P.H.
SFC	31	13	19.6	18.0	02	.4
1000	31	129	20.7	17.8	25	.6
950	31	574	19.9	13.3	25	2.2
900	31	1,038	17.3	10.3	27	2.5
850	31	1,525	14.2	7.4	27	3.0
800	31	2,034	11.2	1.9	27	3.3
750	31	2,571	8.0	-2.4	27	3.9
700	31	3,137	4.6	-7.8	28	5.4
650	31	3,737	.9	-10.8	28	6.3
600	31	4,376	-2.6	-15.5	28	7.7
550	31	5,061	-6.5	-21.0	28	8.3
500	31	5,799	-11.2	-24.7	28	8.5
450	31	6,600	-16.4	-31.2	28	9.1
400	31	7,475	-22.6	-37.1	27	10.4
350	31	8,444	-29.8	-43.0	27	11.7
300	31	9,521	-38.2	-50.0	28	13.6
250	31	10,750	-48.0		28	15.4
200	31	12,187	-58.4		29	18.5
175	31	13,019	-61.7		29	18.4
150	31	13,970	-63.3		29	17.2
125	31	15,093	-62.8		28	15.5
100	31	16,461	-65.3		29	10.5
80	31	17,816	-65.5		30	5.3
70	30	18,633	-64.4		33	2.5
60	30	19,579	-62.4		02	2.7
50	30	20,714	-59.0		06	4.2
40	30	22,123	-55.8		08	4.1
30	30	23,974	-51.4		09	3.6
25	29	25,161	-49.8		09	3.0
20	29	26,629	-47.5		11	2.6
15	21	28,549	-44.3		07	2.2
10	11	31,304	-38.6			
7						

CHATHAM, MA
1014 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.P.H.
SFC	31	16	11.0	8.9	22	1.1
1000	31	133	11.7	6.6	24	1.5
950	31	565	13.0	1.8	28	2.5
900	31	1,018	11.1	-.2	30	2.8
850	31	1,493	8.2	-1.2	31	2.8
800	31	1,991	5.4	-3.1	30	3.5
750	31	2,517	2.9	-8.4	30	4.8
700	31	3,072	.1	-11.9	30	6.1
650	31	3,663	-3.0	-14.4	29	6.8
600	31	4,293	-6.5	-20.1	29	7.3
550	31	4,968	-10.5	-24.4	28	8.5
500	31	5,695	-15.2	-29.4	28	9.7
450	31	6,483	-20.9	-33.3	28	10.6
400	31	7,344	-27.0	-38.4	28	11.3
350	31	8,297	-34.4	-43.2	29	13.0
300	30	9,357	-42.7	-49.4	28	16.0
250	29	10,555	-51.1		28	19.1
200	29	11,983	-57.6		29	20.2
175	29	12,822	-58.8		29	18.6
150	29	13,790	-58.7		29	15.8
125	29	14,936	-58.7		29	14.2
100	29	16,335	-59.4		29	11.2
80	28	17,733	-59.3		30	7.0
70	28	18,572	-58.7		30	5.0
60	28	19,543	-57.5		31	3.3
50	27	20,696	-56.2		33	1.2
40	27	22,119	-54.5		05	1.4
30	24	23,967	-52.3		06	2.3
25	23	25,147	-50.9		07	2.4
20	22	26,612	-48.6		08	2.3
15	19	28,498	-45.5		06	2.2
10	12	31,203	-40.1		28	1.1
7						

CHIHUAHUA, MEXICO
856 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.P.H.
SFC	31	1,428	14.0	-1.1	25	.6
1000						
950						
900						
850	31	1,482	16.3	-1.6	25	.7
800	31	1,998	15.6	-3.2	25	2.3
750	31	2,541	11.7	-6.3	25	3.4
700	31	3,114	8.0	-10.0	24	5.5
650	31	3,721	3.6	-13.0	23	6.2
600	31	4,365	-1.2	-17.0	23	7.1
550	31	5,052	-6.3	-21.8	23	10.4
500	31	5,790	-11.7	-26.8	24	12.5
450	31	6,586	-17.6	-32.2	25	15.1
400	31	7,459	-23.9	-37.2	25	17.6
350	31	8,422	-31.4	-43.5	25	20.0
300	31	9,492	-39.7	-51.0	25	23.7
250	31	10,715	-48.2		25	29.2
200	31	12,156	-57.2		25	34.4
175	31	12,994	-60.3		25	32.8
150	31	13,953	-61.3		25	27.2
125	31	15,080	-63.5		26	20.7
100	31	16,44[illegible]	-66.1		25	14.2
80	30	17,786	-67.4		25	4.8
70	30	18,594	-66.4		22	.6
60	29	19,533	-63.4		09	2.7
50	28	20,664	-60.2		09	3.4
40	28	22,065	-57.3		09	3.3
30	28	23,902	-53.1		07	4.0
25	26	25,083	-50.7		08	4.5
20	23	26,540	-47.7		10	4.4
15	22	28,459	-44.3		10	2.3
10	11	31,168	-39.4			
7						

* COLD BAY, AK
1002 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.P.H.
SFC	31	30	1.9	.0	24	.6
1000	17	117	1.2	-2.4	33	.7
950	31	461	-.6	-2.4	10	.7
900	31	891	-3.3	-4.7	08	2.3
850	31	1,341	-5.7	-8.9	08	2.2
800	31	1,815	-7.7	-12.5	08	1.7
750	31	2,315	-10.2	-16.6	08	1.2
700	31	2,844	-13.1	-21.3	06	.6
650	31	3,405	-16.3	-24.1	09	.5
600	31	4,004	-19.7	-27.9	20	.8
550	31	4,645	-23.4	-32.5	24	1.1
500	31	5,336	-27.6	-37.1	24	2.3
450	31	6,087	-32.1	-40.2	26	4.2
400	31	6,911	-36.9	-42.9	26	5.9
350	31	7,827	-42.1	-44.7	28	6.0
300	31	8,856	-47.3		28	8.9
250	30	10,055	-48.6		27	9.2
200	30	11,533	-46.0		27	6.1
175	29	12,426	-46.6		27	6.3
150	29	13,447	-47.4		27	6.1
125	29	14,649	-49.1		26	4.6
100	28	16,107	-50.7		25	3.3
80	27	17,559	-50.9		21	1.9
70	27	18,429	-50.8		19	1.6
60	27	19,432	-51.3		17	1.6
50	27	20,617	-51.3		16	2.0
40	26	22,070	-51.5		12	2.2
30	24	23,941	-51.3		11	3.3
25	24	25,128	-50.7		10	3.5
20	21	26,601	-49.5		10	3.9
15	19	28,513	-46.5		09	5.0
10	12	31,216	-42.0		08	5.9

DAYTON, OH
980 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.P.H.
SFC	31	299	13.6	11.1	28	.3
1000						
950	31	561	15.9	3.4	23	1.8
900	31	1,020	13.9	5.1	26	3.7
850	31	1,499	10.9	2.0	27	4.5
800	31	2,003	9.3	-1.9	27	5.4
750	31	2,534	5.2	-4.3	27	6.5
700	31	3,094	1.9	-8.5	27	7.9
650	31	3,688	-1.7	-13.8	27	8.8
600	31	4,321	-5.8	-18.5	27	10.4
550	31	4,998	-9.6	-24.8	27	11.3
500	31	5,727	-14.5	-28.8	27	11.2
450	30	6,525	-19.3	-33.1	27	11.3
400	30	7,390	-25.7	-37.8	27	12.4
350	30	8,347	-32.6	-43.1	27	14.1
300	29	9,409	-40.8	-47.2	27	17.1
250	29	10,626	-49.8		27	21.4
200	29	12,058	-57.8		27	22.4
175	29	12,897	-59.3		27	19.3
150	29	13,864	-58.6		27	15.8
125	29	15,008	-59.4		27	13.5
100	29	16,403	-60.2		27	11.0
80	29	17,791	-61.0		29	6.8
70	29	18,621	-60.9		30	4.6
60	29	19,583	-59.6		31	2.2
50	29	20,728	-57.6		03	1.4
40	29	22,146	-55.3		07	2.4
30	29	23,991	-52.8		07	3.5
25	29	25,174	-50.7		08	4.0
20	27	26,635	-47.9		08	2.6
15	23	28,544	-45.6		06	1.2
10	12	31,257	-39.7		21	1.8

DEL RIO, TX
974 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.P.H.
SFC	31	314	20.3	18.1	10	2.4
1000						
950	31	528	20.3	16.7	12	4.7
900	31	995	18.6	14.6	15	7.0
850	31	1,485	16.9	10.8	18	6.6
800	31	2,001	14.3	5.0	19	6.2
750	31	2,544	11.8	-1.8	21	5.6
700	31	3,117	8.3	-7.9	25	5.1
650	31	3,725	3.9	-12.3	26	5.8
600	31	4,369	-1.3	-15.5	26	7.8
550	31	5,056	-6.3	-20.8	25	11.2
500	31	5,793	-11.6	-27.6	25	13.1
450	31	6,592	-17.0	-32.7	25	16.1
400	31	7,465	-23.6	-38.0	25	18.9
350	31	8,430	-30.8	-44.0	25	21.7
300	30	9,500	-39.1	-50.6	25	26.0
250	30	10,726	-47.9		25	31.5
200	30	12,167	-57.3		25	37.1
175	30	13,004	-60.9		25	35.3
150	30	13,959	-62.4		25	30.8
125	30	15,081	-63.8		25	24.6
100	30	16,440	-66.5		26	13.6
80	30	17,783	-68.3		25	5.6
70	30	18,587	-67.0		21	1.0
60	30	19,525	-63.9		12	1.2
50	29	20,650	-60.6		11	2.8
40	29	22,050	-57.4		09	2.6
30	29	23,886	-53.4		08	4.0
25	28	25,063	-51.2		09	4.2
20	26	26,518	-48.2		10	4.5
15	24	28,438	-44.8		10	1.9
10	17	31,163	-40.8		22	1.2

DENVER, CO
835 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.P.H.
SFC	31	1,611	6.7	.5	20	1.7
1000						
950						
900						
850						
800	31	1,961	6.3	-2.9	26	2.5
750	31	2,492	5.8	-6.4	29	3.3
700	31	3,053	1.9	-9.5	28	3.6
650	31	3,647	-2.2	-13.1	28	4.5
600	30	4,278	-6.8	-17.1	27	5.7
550	30	4,951	-11.7	-21.8	26	7.1
500	30	5,673	-17.0	-26.4	25	7.7
450	30	6,455	-22.8	-32.8	25	8.5
400	29	7,308	-29.3	-40.7	25	10.3
350	29	8,251	-36.6	-45.7	25	11.4
300	29	9,297	-44.5		25	12.7
250	29	10,497	-52.1		25	14.1
200	29	11,921	-57.1		25	14.9
175	29	12,765	-56.8		25	14.1
150	29	13,745	-56.1		25	11.9
125	29	14,902	-57.1		25	8.7
100	28	16,309	-57.9		24	6.6
80	28	17,712	-59.1		24	4.3
70	28	18,549	-59.3		25	2.5
60	28	19,516	-58.7		24	1.2
50	28	20,663	-57.8		09	.7
40	26	22,075	-56.1		07	1.9
30	24	23,916	-53.2		07	3.0
25	24	25,096	-51.4		07	3.4
20	20	26,561	-49.3		08	3.1
15	17	28,452	-45.5		07	1.9
10						

DODGE CITY, KS
921 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.P.H.
SFC	31	791	12.2	7.2	19	2.4
1000						
950						
900	31	985	13.9	4.9	20	4.4
850	31	1,468	13.7	-.1	22	7.5
800	31	1,977	11.2	-2.6	23	7.2
750	31	2,512	7.8	-6.8	24	6.9
700	31	3,070	3.6	-10.0	24	6.2
650	31	3,673	-.6	-13.2	25	6.9
600	31	4,307	-5.3	-17.0	25	8.1
550	31	4,984	-10.1	-22.1	25	9.8
500	31	5,712	-15.3	-29.0	25	10.7
450	31	6,500	-20.7	-34.6	25	11.7
400	31	7,359	-27.3	-39.4	25	13.7
350	30	8,307	-34.8	-45.2	24	16.1
300	29	9,357	-43.2		24	18.0
250	29	10,561	-51.8		23	21.1
200	29	11,986	-57.7		24	21.3
175	29	12,827	-58.3		25	20.8
150	29	13,799	-57.4		25	17.8
125	29	14,950	-58.4		25	13.8
100	29	16,350	-59.6		25	10.5
80	29	17,740	-60.9		24	6.1
70	29	18,572	-60.4		24	3.3
60	29	19,534	-59.7		21	.5
50	29	20,677	-58.5		10	1.4
40	28	22,091	-56.1		09	2.4
30	26	23,933	-53.1		08	2.8
25	25	25,117	-51.1		08	1.8
20	20	26,565	-49.2		07	3.0
15	18	28,462	-46.1		05	2.4
10	10	31,221	-40.2			

EL PASO, TX
679 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.P.H.
SFC	31	1,193	13.2	-3.7	29	.7
1000						
950						
900						
850	31	1,478	16.6	-3.3	28	1.6
800	31	1,991	13.8	-6.6	27	3.6
750	31	2,531	9.9	-9.8	26	5.3
700	31	3,099	5.3	-13.2	25	6.8
650	31	3,699	.6	-16.1	24	8.9
600	31	4,336	-4.2	-19.3	24	11.2
550	31	5,015	-9.1	-23.2	24	11.5
500	31	5,745	-14.4	-29.3	24	12.9
450	31	6,535	-20.1	-34.3	24	15.0
400	31	7,397	-26.7	-40.4	25	17.3
350	30	8,347	-34.0	-46.6	25	20.1
300	30	9,406	-42.1		25	23.2
250	30	10,618	-50.5		25	26.6
200	30	12,047	-57.9		25	28.9
175	30	12,886	-59.4		25	27.2
150	30	13,851	-59.4		25	25.4
125	30	14,989	-60.8		25	21.7
100	30	16,372	-62.8		25	13.9
80	30	17,743	-63.9		25	6.3
70	30	18,562	-63.5		25	2.0
60	30	19,512	-61.9		10	1.7
50	29	20,645	-59.8		09	2.6
40	29	22,046	-57.7		09	2.8
30	29	23,851	-53.3		07	4.3
25	29	25,161	-51.1		07	4.0
20	28	26,521	-48.1		09	3.4
15	23	28,427	-44.8		05	1.1
10	11	31,172	-40.0			

ELY, NV
807 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.P.H.
SFC	31	1,908	1.9	-3.2	22	2.2
1000						
950						
900						
850						
800	27	1,994	4.8	-2.3	21	1.6
750	31	2,503	3.9	-5.9	29	1.8
700	31	3,060	.2	-10.1	31	4.3
650	31	3,650	-4.1	-13.0	31	5.4
600	31	4,276	-8.3	-19.2	31	5.8
550	31	4,945	-12.8	-23.1	30	6.9
500	31	5,666	-17.8	-28.5	29	7.4
450	31	6,445	-23.6	-33.5	30	8.1
400	31	7,295	-30.0	-38.8	30	6.9
350	31	8,235	-37.0	-44.6	30	9.8
300	31	9,281	-44.5		30	10.7
250	30	10,479	-52.2		3[illegible]	12.6
200	29	11,900	-57.7		29	13.5
175	29	12,743	-57.3		29	11.8
150	29	13,718	-57.3		29	10.5
125	29	14,870	-57.8		28	8.0
100	28	16,271	-59.4		27	5.9
80	27	17,670	-58.8		27	2.9
70	26	18,509	-53.6		25	1.9
60	25	19,482	-58.5		16	.5
50	23	20,624	-58.6		08	1.4
40	22	22,030	-56.6		08	1.9
30	22	23,803	-54.4		09	2.5
25	22	25,038	-52.3		09	2.1
20	22	26,493	-49.0		08	2.4
15	17	28,384	-45.0		05	2.0
10	13	31,101	-40.5			

EMPALME, MEXICO
1010 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.P.H.
SFC	30	12	15.3	8.9	03	1.0
1000	30	95	19.6	9.1	02	1.0
950	30	538	20.8	1.4	01	.8
900	30	1,003	18.7	-1.8	30	.1
850	30	1,491	15.8	-4.9	19	2.2
800	30	2,002	13.1	-8.7	20	4.5
750	30	2,541	9.9	-11.1	20	6.0
700	30	3,110	6.3	-14.8	21	7.1
650	30	3,713	3.0	-17.8	22	8.4
600	30	4,357	-.8	-20.8	23	9.7
550	30	5,045	-5.8	-24.5	24	11.4
500	30	5,785	-10.9	-28.4	24	13.1
450	30	6,585	-17.0	-33.3	25	15.6
400	30	7,457	-23.6	-38.3	25	18.4
350	30	8,422	-31.0	-45.2	25	21.2
300	30	9,494	-39.3	-52.2	25	25.0
250	30	10,719	-47.8		25	31.1
200	29	12,162	-56.4		25	35.3
175	29	13,004	-59.1		25	33.7
150	29	13,966	-60.7		26	29.8
125	29	15,094	-63.4		26	23.6
100	29	16,456	-65.7		26	15.7
80	29	17,808	-66.6		26	6.4
70	28	18,616	-65.6		28	1.7
60	27	19,558	-62.8		07	1.7
50	26	20,689	-59.5		09	4.3
40	26	22,094	-56.5		10	2.9
30	26	23,934	-53.2		08	4.2
25	26	25,116	-50.5		08	6.1
20	25	26,580	-47.1		09	5.5
15	16	28,514	-43.6		11	4.8
10						

* FAIRBANKS, AK
993 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.P.H.
SFC	30	135	8.5	.1	34	1.3
1000	5	170	6.2	-1.7		
950	30	501	6.9	-3.8	05	.8
900	30	943	4.1	-5.3	17	1.5
850	30	1,405	.7	-7.1	19	2.1
800	30	1,889	-3.1	-8.4	19	2.4
750	30	2,397	-6.8	-11.3	19	3.0
700	30	2,931	-10.8	-15.9	19	3.6
650	30	3,497	-14.3	-20.5	17	4.2
600	30	4,100	-18.2	-25.4	18	4.7
550	30	4,744	-22.8	-30.2	18	5.4
500	30	5,436	-27.8	-35.1	18	5.8
450	30	6,185	-33.0	-39.3	18	6.2
400	30	7,003	-39.1	-43.1	18	6.8
350	30	7,909	-45.3		18	6.9
300	30	8,922	-50.7		19	7.8
250	30	10,105	-51.7		19	7.0
200	29	11,567	-48.9		17	6.6
175	29	12,448	-47.4		18	5.4
150	29	13,469	-47.3		18	4.5
125	29	14,672	-48.0		18	4.2
100	28	16,137	-48.3		18	3.4
80	28	17,606	-48.5		17	2.9
70	28	18,484	-48.7		16	2.8
60	28	19,497	-49.0		15	2.7
50	27	20,695	-49.2		13	2.9
40	25	22,166	-49.2		12	3.6
30	24	24,052	-49.1		10	4.3
25	23	25,241	-48.8		09	5.1
20	23	26,710	-48.3		09	5.[illegible]
15	16	28,643	-45.5		09	7.4
10	8	31,381	-39.6			

FLINT, MI
980 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.P.H.
SFC	31	236	12.0	9.1	29	.0
1000						
950	31	552	14.2	6.2	25	1.7
900	31	1,007	11.9	4.3	27	3.1
850	31	1,484	8.9	1.6	26	3.4
800	31	1,984	6.3	-2.8	26	3.4
750	31	2,511	3.5	-8.0	26	4.4
700	31	3,067	.1	-11.1	26	6.4
650	31	3,658	-3.2	-14.9	26	7.4
600	31	4,287	-6.8	-18.9	26	7.9
550	31	4,961	-10.9	-24.0	27	9.2
500	31	5,687	-15.6	-29.3	26	10.1
450	31	6,474	-21.2	-33.5	26	11.2
400	31	7,333	-27.2	-39.1	27	12.6
350	31	8,284	-34.3	-43.7	26	13.2
300	31	9,342	-42.2	-48.1	27	17.0
250	31	10,553	-50.6		27	19.9
200	30	11,991	-56.7		27	21.2
175	30	12,836	-57.4		27	17.3
150	30	13,812	-57.0		27	14.4
125	29	14,963	-57.3		27	12.0
100	29	16,371	-57.8		28	9.1
80	29	17,775	-58.7		29	6.2
70	29	18,614	-58.5		30	4.8
60	29	19,589	-57.7		31	2.9
50	28	20,743	-56.4		35	2.0
40	26	22,164	-54.2		05	1.8
30	25	24,017	-52.2		07	3.2
25	25	25,206	-50.4		07	3.5
20	24	26,661	-48.2		08	2.2
15	15	28,535	-45.0		06	2.1
10						

RAWINSONDE DATA

Average monthly values

MAY

GLASGOW, MT 931 MB

Standard isobaric surface (mb)	No. of observations	Dynamic height	Temperature	Dew point	Resultant wind direction	Resultant wind speed
SFC	31	646	7.0	3.9	07	1.4
1000						
950						
900	31	976	8.5	2.1	02	.5
850	31	1,448	6.4	-.9	[illegible]	[illegible]
800	31	1,943	3.2	-3.2	[illegible]	[illegible]
750	31	2,463	-.3	-6.3	29	3.2
700	31	3,011	-3.6	-11.5	[illegible]	4.0
650	31	3,594	-7.1	-16.1	27	[illegible]
600	31	4,213	-11.0	-22.0	27	6.1
550	31	4,876	-15.3	-26.3	26	7.4
500	31	5,549	-20.1	-30.2	26	8.2
450	31	6,362	-25.4	-34.5	25	8.8
400	31	7,206	-31.6	-40.3	25	9.9
350	31	[illegible]	-38.6	-45.2	24	10.2
300	31	9,179	-46.5		24	10.8
250	31	10,372	-52.2		25	11.7
200	31	11,810	-53.5		25	10.1
175	31	12,673	-51.9		25	9.1
150	31	13,673	-52.0		26	7.4
125	31	14,851	-53.1		27	6.1
100	31	16,285	-54.2		26	3.6
80	31	17,714	-54.8		27	3.0
70	31	18,568	-54.9		28	1.8
60	31	19,553	-55.1		32	.6
50	31	20,718	-54.9		05	1.0
40	30	22,150	-53.8		06	1.8
30	29	23,999	-51.7		08	3.6
25	26	25,190	-50.7		08	4.4
20	24	26,657	-48.7		08	4.9
15	16	28,555	-45.8		09	5.0
10	7	31,263	-40.6			

GRAND JUNCTION, CO

Standard isobaric surface (mb)	No. of observations	Dynamic height	Temperature	Dew point	Resultant wind direction	Resultant wind speed
SFC	31	[illegible]	[illegible]	-.9	[illegible]	1.8
850	17	1,499	10.0	[illegible]	12	3.1
800	31	1,969	8.7	-3.8	17	2.1
750	31	2,499	5.1	-6.3	[illegible]	3.3
700	31	3,058	1.0	-8.3	25	4.5
650	31	[illegible]	-3.5	-11.0	25	5.9
600	31	4,277	-7.9	-16.0	25	[illegible]
550	31	[illegible]	[illegible]	[illegible]	25	7.3
500	31	5,668	[illegible]	[illegible]	25	8.2
450	31	6,447	-23.5	-32.3	25	8.6
400	31	7,247	-30.0	[illegible]	25	9.7
350	30	8,234	-36.8	[illegible]	26	10.0
300	30	9,261	-44.7		[illegible]	10.6
250	30	[illegible]	-52.1		26	12.3
200	30	11,908	-56.7		26	13.9
175	30	12,755	-55.9		26	12.6
150	30	13,738	-56.1		26	10.3
125	30	[illegible]	-57.4		26	9.2
100	30	[illegible]	[illegible]		25	6.9
80	30	[illegible]	-58.5		25	4.9
70	30	[illegible]	-58.9		25	2.6
60	30	[illegible]	-59.0		23	.4
50	30	[illegible]	-58.2		[illegible]	.2
40	30	[illegible]	[illegible]		[illegible]	1.3
30	28	[illegible]	-53.8		08	2.9
25	27	25,076	[illegible]		[illegible]	2.9
20	25	26,526	[illegible]		[illegible]	3.2
15	23	28,433	-46.1		05	1.0
10	9	31,131	-42.2			

GREAT FALLS, MT

Standard isobaric surface (mb)	No. of observations	Dynamic height	Temperature	Dew point	Resultant wind direction	Resultant wind speed
SFC	31	[illegible]	5.4	[illegible]	25	3.1
850	31	1,456	[illegible]	-2.6	[illegible]	4.1
800	31	[illegible]	[illegible]	[illegible]	29	4.1
750	31	2,470	-.5	-7.0	29	[illegible]
700	31	[illegible]	[illegible]	[illegible]	[illegible]	4.4
650	31	3,598	-7.7	-14.5	29	5.5
600	31	[illegible]	-11.3	-18.4	28	5.8
550	31	[illegible]	-15.9	-23.6	28	6.4
500	31	5,591	-20.6	-29.4	[illegible]	7.9
450	31	6,363	-25.9	-35.4	[illegible]	9.4
400	31	7,205	[illegible]	[illegible]	28	10.1
350	30	[illegible]	[illegible]	[illegible]	29	11.4
300	[illegible]	9,175	-46.8		29	12.1
250	30	10,368	-52.3		[illegible]	11.7
200	30	11,804	[illegible]		[illegible]	10.9
175	30	[illegible]	-52.7		[illegible]	8.8
150	30	13,663	-52.0		27	6.7
125	[illegible]	14,839	[illegible]		26	5.6
100	30	16,270	-54.6		26	3.8
80	[illegible]	17,698	-55.3		27	2.3
70	29	18,554	-55.4		30	1.6
60	28	[illegible]	[illegible]		35	1.2
50	26	20,705	-55.1		07	1.4
40	[illegible]	[illegible]	-54.4		[illegible]	2.2
30	26	[illegible]	[illegible]		07	3.3
25	25	25,165	-51.0		[illegible]	3.9
20	21	26,619	-49.5		08	[illegible]
15	[illegible]	28,519	-46.5		08	[illegible]
10	[illegible]	31,245	-41.3			

[illegible]

Standard isobaric surface (mb)	No. of observations	Dynamic height	Temperature	Dew point	Resultant wind direction	Resultant wind speed
SFC	[illegible]	[illegible]	[illegible]	7.6	30	[illegible]
950	31	540	13.3	4.2	27	[illegible]
900	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
850	[illegible]	[illegible]	[illegible]	-1.6	[illegible]	2.9
800	31	1,968	5.6	-4.7	[illegible]	3.2
750	[illegible]	[illegible]	[illegible]	-8.5	[illegible]	4.9
700	31	3,048	-1.1	-11.5	[illegible]	6.3
650	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7.0
600	31	4,262	-8.4	-17.5	[illegible]	6.3
550	31	4,932	-12.5	-22.1	[illegible]	9.4
500	[illegible]	5,653	-17.1	-28.7	[illegible]	10.8
450	31	6,435	-22.3	-34.1	[illegible]	11.9
400	30	7,291	[illegible]	[illegible]	27	[illegible]
350	[illegible]	8,237	-35.4	[illegible]	27	14.8
300	[illegible]	[illegible]	-43.3	-48.1	[illegible]	16.8
250	30	10,495	-51.3		26	18.6
200	30	11,926	-56.3		27	17.4
175	30	12,772	-57.2		27	15.3
150	30	13,751	-55.9		27	12.8
125	[illegible]	[illegible]	[illegible]		[illegible]	11.6
100	30	16,323	-57.7		27	[illegible]
80	[illegible]	[illegible]	[illegible]		26	6.8
70	[illegible]	[illegible]	[illegible]		[illegible]	4.6
60	30	19,543	-57.6		[illegible]	2.6
50	30	20,696	-56.6		[illegible]	1.5
40	29	22,119	-54.8		04	1.6
30	28	23,970	-52.3		[illegible]	3.2
25	27	25,156	-50.9		[illegible]	3.2
20	[illegible]	[illegible]	-48.9		09	3.6
15	20	28,508	-46.7		07	3.3
10	10	31,247	-40.8		[illegible]	1.7

[illegible]

Standard isobaric surface (mb)	No. of observations	Dynamic height	Temperature	Dew point	Resultant wind direction	Resultant wind speed
SFC	[illegible]	[illegible]	15.0	[illegible]	[illegible]	.3
950	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.5
900	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.0
850	29	1,514	12.6	[illegible]	[illegible]	4.1
800	[illegible]	[illegible]	9.0	[illegible]	[illegible]	5.8
750	[illegible]	[illegible]	[illegible]	-1.5	28	6.7
700	29	3,117	[illegible]	[illegible]	[illegible]	7.6
650	[illegible]	[illegible]	-.5	-12.5	27	8.5
600	[illegible]	[illegible]	-4.1	-16.7	27	9.4
550	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
500	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.2
450	[illegible]	[illegible]	-17.6	-30.5	27	[illegible]
400	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14.3
350	[illegible]	[illegible]	-31.2	-43.1	27	[illegible]
300	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18.6
250	[illegible]	[illegible]	[illegible]		[illegible]	21.0
200	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
175	28	12,954	[illegible]		[illegible]	21.6
150	[illegible]	[illegible]	[illegible]		[illegible]	19.3
125	27	15,047	[illegible]		[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]		[illegible]	7.4
70	[illegible]	[illegible]	[illegible]		[illegible]	4.1
60	26	19,590	[illegible]		[illegible]	[illegible]
50	26	20,732	-56.4		04	2.7
40	[illegible]	[illegible]	[illegible]			[illegible]
30	[illegible]	[illegible]	[illegible]			3.5
25	[illegible]	[illegible]	-50.6			[illegible]
20	21	26,640	[illegible]			[illegible]
15	[illegible]	[illegible]	[illegible]			1.8
10	8	31,312	[illegible]			

GUADALUPE IS., MEXICO 1013 MB

Standard isobaric surface (mb)	No. of observations	Dynamic height	Temperature	Dew point	Resultant wind direction	Resultant wind speed
SFC	31	23	13.5	10.0	[illegible]	[illegible]
1000	31	[illegible]	12.7	9.4	32	[illegible]
950	31	558	11.1	5.6	32	5.2
900	31	1,013	14.3	-5.5	34	[illegible]
850	31	1,494	13.1	-9.3	33	4.2
800	31	[illegible]	11.4	-11.3	33	3.6
750	31	[illegible]	9.0	-13.4	31	[illegible]
700	31	3,106	6.2	-15.3	30	4.9
650	31	3,709	2.9	-17.8	30	5.1
600	31	[illegible]	-1.1	-21.5	29	[illegible]
550	31	5,040	-5.7	-25.3	29	7.2
500	31	5,779	-11.1	-29.7	29	8.4
450	30	6,577	-17.3	-34.3	[illegible]	[illegible]
400	30	7,447	-24.2	-40.6	28	[illegible]
350	30	8,409	-31.8	-46.7	28	13.7
300	30	9,477	-40.5	-52.3	27	15.4
250	30	10,695	-49.4		27	19.7
200	29	12,124	-57.7		[illegible]	23.8
175	29	12,961	-60.1		26	22.8
150	29	13,922	-60.7		26	19.3
125	29	15,052	-62.4		26	17.3
100	29	16,422	-64.4		26	12.9
80	28	17,782	-65.0		26	[illegible]
70	27	18,596	-64.3		32	.4
60	27	19,543	-62.5		08	2.9
50	27	20,671	-60.8		[illegible]	3.6
40	26	22,071	-57.4		07	3.9
30	24	[illegible]	-53.4		07	[illegible]
25	22	[illegible]	-51.4		08	[illegible]
20	19	26,553	-48.8		07	[illegible]
15	8	28,452	-45.1			
10						

GUAM, MARIANA IS. 999 MB

Standard isobaric surface (mb)	No. of observations	Dynamic height	Temperature	Dew point	Resultant wind direction	Resultant wind speed
SFC	31	111	25.0	22.4	[illegible]	2.8
1000	6	112	[illegible]	22.9		
950	31	553	22.7	20.0	[illegible]	6.6
900	31	1,023	[illegible]	[illegible]	10	6.3
850	31	1,516	17.7	10.3	[illegible]	5.1
800	31	2,032	15.2	5.2	[illegible]	4.2
750	31	2,577	12.7	-.1	09	3.9
700	31	3,153	9.6	-3.0	08	3.1
650	31	3,765	6.5	-8.4	07	3.0
600	31	4,418	2.8	-11.5	[illegible]	3.0
550	31	5,117	-.9	[illegible]	08	2.9
500	31	5,871	-5.5	-21.4	07	2.7
450	31	6,691	-10.4	-25.7	05	2.0
400	31	7,587	-16.5	-32.6	02	2.0
350	31	8,580	-23.6	-36.7	33	2.7
300	31	9,685	-31.9	-45.8	29	5.2
250	31	10,947	-42.0		27	7.6
200	30	12,417	-54.3		27	9.1
175	30	13,260	-60.9		28	9.3
150	30	14,203	-67.6		29	6.9
125	30	15,283	-74.1		34	4.1
100	29	16,565	[illegible]		05	6.4
80	28	17,834	[illegible]		[illegible]	9.4
70	28	18,602	-74.4		08	10.5
60	28	19,515	-67.7		09	12.2
50	27	20,630	[illegible]		09	15.0
40	[illegible]	[illegible]	-59.6		[illegible]	16.1
30	27	23,837	-54.4		[illegible]	13.6
25	26	25,015	-50.7		[illegible]	10.6
20	24	26,479	-47.2		08	8.3
15	23	28,399	-44.0		08	7.8
10	17	31,164	-40.4		08	9.6

HILO, HI 1018 MB

Standard isobaric surface (mb)	No. of observations	Dynamic height	Temperature	Dew point	Resultant wind direction	Resultant wind speed
SFC	31	10	19.5	16.6	23	2.1
1000	31	161	19.8	[illegible]	[illegible]	1.4
950	31	602	16.7	14.2	[illegible]	2.3
900	31	[illegible]	13.4	11.7	10	3.5
850	31	[illegible]	10.2	8.8	10	3.8
800	31	2,044	9.1	-1.3	09	4.5
750	31	2,579	9.1	-8.6	09	3.9
700	31	3,149	7.6	-14.3	09	2.8
650	31	3,756	4.5	-16.7	07	1.7
600	31	4,403	.6	-20.2	05	1.2
550	31	5,095	-3.7	-23.5	03	1.0
500	31	5,841	-8.5	-27.1	36	1.2
450	31	6,650	-14.1	-31.7	32	1.8
400	31	7,532	-20.5	-36.7	31	3.4
350	31	8,508	-28.3	-43.1	30	5.3
300	31	[illegible]	-37.0	-50.8	28	7.6
250	31	10,827	-46.6		28	11.9
200	31	12,272	-57.5		28	18.5
175	31	13,104	-63.2		28	21.1
150	31	14,040	-68.1		28	20.1
125	31	15,125	-70.8		28	16.1
100	[illegible]	16,445	-70.6		27	8.3
80	[illegible]	17,771	-69.7		24	1.5
70	28	18,570	[illegible]		[illegible]	2.4
60	28	19,503	[illegible]		[illegible]	[illegible]
50	28	20,622	-61.7		09	8.3
40	28	[illegible]	[illegible]		[illegible]	10.0
30	28	[illegible]	[illegible]		[illegible]	12.4
25	[illegible]	25,012	-52.3		[illegible]	13.2
20	[illegible]	26,465	-48.8		09	12.5
15	21	[illegible]	-43.7		10	10.3
10	13	[illegible]	[illegible]		[illegible]	10.0

HUNTINGTON, WV

Standard isobaric surface (mb)	No. of observations	Dynamic height	Temperature	Dew point	Resultant wind direction	Resultant wind speed
SFC	31	246	14.7	12.6	20	.8
1000						
950	31	560	17.4	10.1	25	2.5
900	31	1,021	15.0	7.4	27	4.5
850	31	1,502	12.0	4.3	27	5.2
800	31	2,008	9.3	-.8	27	[illegible]
750	31	2,541	6.0	-4.2	27	6.9
700	31	3,102	2.3	-8.5	27	7.7
650	31	3,697	-1.1	-13.8	27	8.2
600	31	4,331	-4.8	-18.0	26	9.4
550	31	5,010	-9.0	-23.0	26	10.8
500	31	5,742	-13.5	-28.1	27	11.6
450	31	6,535	-18.7	-31.9	27	12.0
400	31	7,402	-24.9	-36.7	27	13.4
350	31	8,362	-32.0	-42.1	27	15.4
300	31	9,431	-40.1	[illegible]	27	17.7
250	31	10,651	-48.9		27	22.0
200	31	12,088	-57.3		27	25.0
175	31	12,928	-59.3		[illegible]	21.2
150	31	[illegible]	[illegible]		27	16.6
125	31	15,034	[illegible]		27	14.2
100	31	16,427	-60.5		[illegible]	10.8
80	31	17,813	-61.3		30	6.6
70	31	18,643	-60.6		31	3.7
60	31	19,606	-59.5		31	1.8
50	30	20,747	-57.5		36	1.4
40	27	22,169	-55.1		[illegible]	2.7
30	24	24,026	-52.1		08	4.4
25	24	25,213	-49.8		[illegible]	3.7
20	24	26,681	-47.7		[illegible]	2.9
15	22	28,594	-44.4		[illegible]	[illegible]
10	13	31,338	[illegible]			

INTERNATIONAL FALLS, MN

Standard isobaric surface (mb)	No. of observations	Dynamic height	Temperature	Dew point	Resultant wind direction	Resultant wind speed
SFC	31	[illegible]	7.1	4.3	[illegible]	.3
1000						
950	31	[illegible]	[illegible]	3.5	20	[illegible]
900	31	981	[illegible]	[illegible]	[illegible]	3.0
850	31	1,451	6.2	-3.7	[illegible]	[illegible]
800	31	[illegible]	[illegible]	-6.0	[illegible]	4.4
750	31	2,466	.4	-10.0	[illegible]	5.0
700	31	3,017	[illegible]	[illegible]	[illegible]	6.0
650	31	[illegible]	-6.5	-18.8	[illegible]	[illegible]
600	31	4,222	-10.4	[illegible]	[illegible]	6.9
550	31	[illegible]	-14.4	-27.3	[illegible]	[illegible]
500	31	5,604	[illegible]	-32.1	[illegible]	[illegible]
450	31	6,381	-24.3	[illegible]	[illegible]	10.3
400	31	7,228	-30.6	-43.6	27	11.3
350	31	[illegible]	[illegible]	-47.1	[illegible]	[illegible]
300	31	9,210	-45.1		[illegible]	16.2
250	31	10,409	-52.0		[illegible]	16.0
200	31	11,839	[illegible]		[illegible]	15.4
175	31	[illegible]	-54.2		[illegible]	13.5
150	31	13,683	-53.3		[illegible]	[illegible]
125	31	14,855	-54.2		[illegible]	[illegible]
100	31	[illegible]	-55.0		[illegible]	[illegible]
80	31	[illegible]	-55.0		[illegible]	4.2
70	31	18,553	-55.9		[illegible]	[illegible]
60	29	19,542	-55.5		[illegible]	1.5
50	[illegible]	20,706	-55.0		01	1.0
40	[illegible]	22,145	-53.4		06	3.1
30	26	24,006	-51.7		[illegible]	3.2
25	[illegible]	[illegible]	-50.7		[illegible]	[illegible]
20	[illegible]	[illegible]	-48.8		09	4.6
15	23	[illegible]	-46.0		08	4.9
10	12	31,243	-40.3		[illegible]	4.0

ISLE DEL CISNE 1011 MB

Standard isobaric surface (mb)	No. of observations	Dynamic height	Temperature	Dew point	Resultant wind direction	Resultant wind speed
SFC	31	[illegible]	26.5	23.0	12	5.4
1000	31	[illegible]	26.2	23.0	12	[illegible]
950	31	559	22.2	20.3	13	[illegible]
900	31	[illegible]	19.6	15.3	[illegible]	[illegible]
850	31	1,519	16.9	9.6	13	[illegible]
800	31	[illegible]	14.7	3.0	12	[illegible]
750	31	[illegible]	11.8	[illegible]	12	[illegible]
700	31	3,152	9.0	-7.8	11	[illegible]
650	31	3,762	5.6	-11.7	10	[illegible]
600	31	4,412	2.4	-15.3	[illegible]	[illegible]
550	31	[illegible]	[illegible]	-19.4	03	[illegible]
500	31	[illegible]	-5.7	-24.6	36	[illegible]
450	30	[illegible]	[illegible]	-29.0	34	[illegible]
400	30	[illegible]	-17.4	-33.9	34	[illegible]
350	30	[illegible]	-24.5	-38.9	33	[illegible]
300	30	9,665	-33.0	-47.2	32	[illegible]
250	29	[illegible]	-42.8		[illegible]	12.2
200	29	[illegible]	-54.3		[illegible]	13.4
175	29	[illegible]	-60.4		[illegible]	13.2
150	29	[illegible]	-66.9		31	11.9
125	29	15,265	-72.7		[illegible]	[illegible]
100	29	[illegible]	-75.3		[illegible]	[illegible]
80	29	[illegible]	-75.1		07	[illegible]
70	[illegible]	18,636	-71.1		08	[illegible]
60	29	19,561	[illegible]		09	[illegible]
50	29	20,684	-60.7		[illegible]	[illegible]
40	29	22,080	-58.0		[illegible]	[illegible]
30	27	23,913	-53.4		[illegible]	[illegible]
25	[illegible]	25,092	-50.4		09	[illegible]
20	[illegible]	26,563	-46.5		09	[illegible]
15	[illegible]	[illegible]	-42.5		09	[illegible]
10	[illegible]	31,280	-37.8			

[illegible]

Standard isobaric surface (mb)	No. of observations	Dynamic height	Temperature	Dew point	Resultant wind direction	Resultant wind speed
SFC	31	[illegible]	18.3	17.3	15	[illegible]
1000	24	129	18.5	17.0	[illegible]	[illegible]
950	31	[illegible]	19.9	[illegible]	[illegible]	[illegible]
900	31	1,025	[illegible]	10.6	20	[illegible]
850	31	[illegible]	15.1	[illegible]	[illegible]	4.4
800	31	[illegible]	12.4	.8	[illegible]	4.7
750	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
700	31	3,130	5.6	-8.0	[illegible]	[illegible]
650	31	[illegible]	1.9	[illegible]	26	[illegible]
600	31	4,373	-2.4	-14.1	26	[illegible]
550	31	5,058	[illegible]	-17.5	[illegible]	[illegible]
500	31	[illegible]	[illegible]	[illegible]	26	[illegible]
450	31	6,593	-17.1	-28.0	[illegible]	[illegible]
400	31	7,466	-23.2	[illegible]	26	[illegible]
350	31	8,434	-29.9	-39.9	26	[illegible]
300	31	9,510	[illegible]	-47.3	[illegible]	[illegible]
250	31	10,740	-47.5		26	[illegible]
200	31	12,181	-57.6		27	[illegible]
175	31	[illegible]	[illegible]		27	[illegible]
150	31	13,970	-62.2		27	[illegible]
125	31	[illegible]	[illegible]		27	[illegible]
100	31	16,462	-65.6		26	[illegible]
80	31	17,812	-67.1		26	[illegible]
70	31	18,621	-65.4		26	[illegible]
60	31	19,564	-63.1		05	[illegible]
50	31	[illegible]	[illegible]		08	[illegible]
40	31	22,102	-56.8		[illegible]	[illegible]
30	31	23,947	-52.1		[illegible]	[illegible]
25	31	25,134	-50.0		[illegible]	[illegible]
20	[illegible]	26,606	-47.2		[illegible]	[illegible]
15	25	[illegible]	[illegible]		06	[illegible]
10	5	31,290	-39.2			

JOHN F. KENNEDY INT. AP NY 1015 MB

Standard isobaric surface (mb)	No. of observations	Dynamic height	Temperature	Dew point	Resultant wind direction	Resultant wind speed
SFC	27	5	[illegible]	[illegible]	24	.2
1000	27	131	[illegible]	[illegible]	01	.4
950	27	565	13.8	7.5	36	.8
900	27	1,020	[illegible]	4.4	29	.9
850	27	[illegible]	[illegible]	[illegible]	[illegible]	1.9
800	27	[illegible]	[illegible]	[illegible]	[illegible]	3.6
750	27	[illegible]	[illegible]	-3.6	[illegible]	5.1
700	27	[illegible]	[illegible]	[illegible]	[illegible]	5.9
650	27	3,678	-2.1	-10.4	29	7.7
600	27	[illegible]	[illegible]	[illegible]	[illegible]	7.7
550	27	4,987	-9.7	-19.9	29	8.1
500	27	5,716	-14.5	-26.9	29	9.4
450	27	6,507	-19.7	-32.6	[illegible]	10.9
400	27	7,371	-26.1	-38.8	[illegible]	11.4
350	27	8,325	-33.4	-44.3	[illegible]	13.9
300	27	9,387	-41.4	-48.4	[illegible]	16.0
250	27	10,601	-50.2		29	19.3
200	[illegible]	[illegible]	[illegible]		[illegible]	20.3
175	[illegible]	12,874	-58.6		[illegible]	18.4
150	[illegible]	[illegible]	[illegible]		[illegible]	16.6
125	[illegible]	14,991	-59.0		28	14.8
100	[illegible]	[illegible]	[illegible]		29	11.6
80	[illegible]	17,783	[illegible]		30	9.1
70	[illegible]	18,620	-58.7		30	6.5
60	[illegible]	19,590	-58.0		31	4.9
50	[illegible]	20,733	-56.0		[illegible]	3.0
40	[illegible]	22,160	-53.9		06	1.2
30	[illegible]	24,014	-51.5		[illegible]	1.7
25	[illegible]	[illegible]	[illegible]		[illegible]	1.5
20	[illegible]	26,690	-47.3			
15	[illegible]	28,593	-43.7			
10						

JOHNSTON IS., PACIFIC AREA

Standard isobaric surface (mb)	No. of observations	Dynamic height	Temperature	Dew point	Resultant wind direction	Resultant wind speed
SFC	31	3	24.8	[illegible]	09	6.8
1000	31	131	[illegible]	18.9	09	7.7
950	31	578	19.6	16.9	09	8.9
900	31	1,042	16.5	12.9	09	8.8
850	31	1,527	[illegible]	7.7	[illegible]	7.8
800	31	2,038	13.1	-1.0	[illegible]	6.2
750	31	2,579	11.2	-6.9	[illegible]	4.1
700	31	[illegible]	[illegible]	[illegible]	[illegible]	2.2
650	31	[illegible]	[illegible]	[illegible]	12	1.0
600	31	[illegible]	[illegible]	[illegible]	[illegible]	.6
550	31	5,104	-2.5	-19.6	28	[illegible]
500	31	5,856	-7.5	-23.5	27	2.2
450	31	6,666	[illegible]	[illegible]	27	3.2
400	31	7,553	-18.9	-33.6	27	5.8
350	[illegible]	[illegible]	-26.2	-40.1	27	9.8
300	31	9,630	-34.5	-47.6	27	15.5
250	31	10,878	[illegible]		27	20.4
200	31	12,334	[illegible]		26	25.1
175	[illegible]	[illegible]	[illegible]		27	26.5
150	31	14,107	-68.4		27	26.1
125	[illegible]	[illegible]	[illegible]		27	[illegible]
100	31	16,486	-74.2		27	11.4
80	30	17,796	[illegible]		28	1.4
70	[illegible]	[illegible]	-69.0		09	2.6
60	30	19,519	[illegible]		[illegible]	[illegible]
50	[illegible]	20,636	[illegible]		[illegible]	11.0
40	[illegible]	[illegible]	[illegible]		09	13.7
30	29	[illegible]	[illegible]		09	14.5
25	[illegible]	25,016	-52.1		[illegible]	13.5
20	28	[illegible]	[illegible]		08	12.1
15	28	28,387	-44.2		[illegible]	11.4
10	[illegible]	[illegible]	-40.4		[illegible]	[illegible]

KEY WEST, FL

Standard isobaric surface (mb)	No. of observations	Dynamic height	Temperature	Dew point	Resultant wind direction	Resultant wind speed
SFC	[illegible]	3	25.9	22.0	16	[illegible]
1000	30	127	25.1	20.7	16	2.6
950	[illegible]	[illegible]	21.6	17.7	16	3.4
900	30	1,044	[illegible]	12.0	17	[illegible]
850	30	1,533	15.9	8.7	18	1.4
800	[illegible]	[illegible]	13.0	3.9	21	1.8
750	30	2,586	[illegible]	[illegible]	[illegible]	1.6
700	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.7
650	[illegible]	[illegible]	4.1	-10.3	29	[illegible]
600	30	4,410	[illegible]	[illegible]	[illegible]	4.2
550	[illegible]	[illegible]	-4.1	-18.0	31	5.2
500	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
450	30	6,655	-14.0	-27.3	30	7.8
400	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
350	29	8,517	[illegible]	[illegible]	[illegible]	[illegible]
300	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14.1
250	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
200	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
175	[illegible]	[illegible]	-60.7		29	[illegible]
150	[illegible]	[illegible]	-64.5		29	[illegible]
125	[illegible]	[illegible]	-68.5		29	[illegible]
100	[illegible]	[illegible]	[illegible]		30	8.5
80	[illegible]	[illegible]	[illegible]		33	1.9
70	[illegible]	[illegible]	-69.5			1.7
60	[illegible]	[illegible]	-64.7			
50	[illegible]	[illegible]	-60.4		[illegible]	[illegible]
40	[illegible]	[illegible]	-56.9			[illegible]
30	[illegible]	[illegible]	[illegible]			[illegible]
25	23	25,111	-50.7		[illegible]	10.2
20	23	26,577	[illegible]			10.2
15	19	[illegible]	-43.2		09	9.2
10	[illegible]	[illegible]	[illegible]		08	[illegible]

RAWINSONDE DATA

Average monthly values

KING SALMON, AK — 1006 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	15	1.7	-1.0	10	2.0
1000	21	94	2.6	-2.1	13	1.4
950	31	476	1.2	-3.0	11	4.6
900	31	909	-1.1	-5.7	11	5.0
850	31	1,363	-3.8	-8.9	12	6.3
800	31	1,839	-6.4	-11.7	13	7.1
750	31	2,342	-9.3	-15.1	13	7.3
700	31	2,872	-12.4	-17.4	13	6.9
650	31	3,434	-15.9	-21.1	13	6.7
600	31	4,[illegible]33	-19.5	-25.6	12	6.3
550	31	4,675	-23.6	-30.1	12	6.8
500	31	5,365	-28.2	-35.2	13	7.8
450	31	6,113	-33.3	-40.1	13	7.2
400	31	6,931	-39.0	-44.0	13	7.3
350	31	7,839	-44.2		14	5.9
300	31	8,859	-48.3		18	4.1
250	31	10,060	-47.8		21	5.4
200	31	11,538	-45.4		21	4.7
175	31	12,429	-45.6		21	3.4
150	31	13,453	-46.4		22	3.4
125	31	14,653	-47.8		21	3.2
100	31	16,133	-48.6		20	2.5
80	31	17,547	-49.3		19	2.4
70	31	18,473	-49.7		18	2.3
60	31	19,461	-49.9		16	2.4
50	31	20,673	-50.2		15	2.2
40	29	22,130	-50.5		13	2.0
30	29	24,[illegible]06	-50.5		11	3.2
25	28	25,2[illegible]1	-49.9		10	3.5
20	25	26,666	-49.2		10	4.7
15	15	28,594	-46.9		09	5.2
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◆ KOROR, CAROLINE IS. — 1007 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	30	28.1	24.6	09	3.0
1000	31	87	26.8	23.5	09	3.3
950	31	540	23.6	21.3	10	5.0
900	31	1,012	20.6	18.0	10	5.4
850	31	1,505	17.7	14.9	10	4.9
800	31	2,023	15.5	11.6	10	4.4
750	31	2,570	12.8	8.3	09	4.7
700	31	3,147	9.7	4.6	09	4.8
650	31	3,761	6.4	.9	09	4.9
600	31	4,414	2.5	-2.7	09	4.8
550	31	5,113	-1.2	-6.5	09	4.4
500	31	5,869	-5.2	-13.7	09	3.5
450	31	6,690	-9.7	-21.0	09	3.6
400	31	7,590	-15.0	-27.4	10	3.1
350	31	8,589	-21.9	-34.1	10	1.7
300	31	9,702	-30.4	-41.7	15	.7
250	31	10,971	-40.6	-50.8	22	2.2
200	30	12,450	-53.3		25	4.1
175	30	13,296	-60.1		26	5.7
150	30	14,241	-67.8		28	5.6
125	30	15,319	-74.6		32	2.6
100	30	16,597	-79.8		06	6.3
80	30	17,861	-79.3		07	9.9
70	30	18,633	-73.3		08	11.4
60	29	19,547	-67.6		09	14.8
50	29	20,659	-62.4		09	19.9
40	28	22,052	-53.0		09	15.6
30	28	23,893	-51.6		08	6.1
25	28	25,083	-49.1		09	2.5
20	26	26,557	-46.3		24	1.1
15	23	28,487	-42.7		20	3.0
10	13	31,257	-39.6		12	3.5

KOTZEBUE, AK — 1012 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	5	-3.5	-5.5	30	2.6
1000	29	109	-.4	-5.1	32	2.2
950	31	513	.8	-6.2	06	1.3
900	31	946	-1.1	-8.3	14	1.3
850	31	1,400	-3.8	-9.8	15	2.1
800	31	1,877	-6.5	-12.1	16	2.4
750	31	2,378	-9.4	-15.3	17	2.6
700	31	2,908	-12.7	-20.0	17	3.1
650	31	3,470	-16.2	-23.5	17	3.0
600	31	4,068	-20.1	-28.7	18	3.1
550	31	4,707	-24.4	-32.5	18	3.3
500	31	5,395	-29.2	-37.9	17	3.2
450	31	6,140	-34.6	-40.5	17	3.0
400	31	6,953	-40.6	-44.5	17	3.9
350	31	7,853	-46.2		17	4.6
300	31	8,865	-50.4		17	4.4
250	30	10,048	-50.1		16	4.6
200	30	11,517	-46.9		17	3.8
175	30	12,402	-46.8		17	3.5
150	30	13,425	-46.8		17	3.7
125	30	14,631	-47.7		17	3.2
100	30	16,104	-48.0		16	3.0
80	30	17,574	-48.3		16	3.0
70	30	18,454	-48.3		15	3.0
60	29	19,470	-48.3		14	3.2
50	28	20,673	-48.4		12	3.4
40	28	22,142	-48.5		12	3.3
30	27	24,034	-48.6		11	4.2
25	26	25,231	-48.3		10	4.9
20	23	26,713	-47.5		09	5.6
15	11	28,683	-44.6			
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LAKE CHARLES, LA — 1012 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	5	20.8	20.1	11	1.3
1000	31	107	21.8	20.2	14	1.9
950	31	552	19.9	16.9	17	4.1
900	31	1,017	17.6	11.8	18	4.2
850	31	1,505	15.7	5.5	19	4.7
800	31	2,018	13.4	2.0	21	4.5
750	31	2,559	10.2	-1.5	23	4.9
700	31	3,129	6.3	-6.0	25	5.5
650	31	3,732	2.3	-10.7	26	7.0
600	31	4,375	-1.5	-18.1	26	8.9
550	31	5,061	-6.2	-22.0	26	10.3
500	31	5,800	-11.2	-25.2	26	10.9
450	31	6,601	-16.3	-29.8	26	13.4
400	31	7,477	-22.4	-35.1	26	16.0
350	31	8,447	-29.2	-40.1	26	17.6
300	31	9,527	-37.4	-48.4	26	21.1
250	31	10,762	-46.5		26	26.6
200	31	12,208	-57.2		27	33.3
175	31	13,044	-61.4		27	32.0
150	31	13,995	-63.5		26	27.7
125	31	15,109	-65.0		26	21.7
100	31	16,464	-67.5		26	11.5
80	31	17,802	-68.6		23	2.6
70	31	18,606	-66.3		18	1.3
60	30	19,549	-63.3		07	2.2
50	30	20,678	-59.9		08	3.5
40	29	22,080	-56.8		08	4.8
30	27	23,923	-52.3		08	5.2
25	24	25,113	-49.9		09	5.6
20	22	26,586	-46.2		10	3.7
15	18	28,497	-44.0		10	3.7
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LANDER, WY — 827 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	1,697	4.6	-1.3	20	1.4
1000						
950						
900						
850						
800	31	1,961	5.8	-4.7	25	1.2
750	31	2,486	2.3	-7.6	29	2.2
700	31	3,040	-1.6	-11.0	29	3.6
650	31	3,626	-5.6	-13.9	28	4.9
600	31	4,248	-10.0	-17.4	28	6.6
550	31	4,914	-14.0	-23.6	27	8.8
500	31	5,631	-18.6	-28.5	25	9.6
450	31	6,409	-23.8	-33.3	25	10.8
400	31	7,258	-30.4	-39.9	24	10.6
350	31	8,196	-37.9	-46.7	25	11.0
300	31	9,238	-45.6		26	12.6
250	31	10,434	-52.4		26	12.8
200	31	11,860	-56.4		26	12.2
175	31	12,710	-55.5		26	12.0
150	31	13,696	-54.5		26	10.1
125	31	14,860	-56.0		26	8.2
100	30	16,275	-56.7		26	5.9
80	30	17,690	-57.0		24	2.5
70	29	18,534	-57.4		27	2.0
60	29	19,508	-57.6		30	.6
50	29	20,660	-57.2		07	.9
40	29	22,076	-55.8		08	1.7
30	28	23,914	-53.6		07	3.3
25	28	25,091	-52.0		08	3.9
20	26	26,546	-49.8		07	3.6
15	22	28,455	-46.6		07	4.2
10	12	31,173	-42.1			

*** LIHUE KAUAI, HI — 1015 MB**

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	30	35	22.4	18.6	07	4.4
1000	30	104	21.5	16.8	08	5.4
950	30	607	17.8	15.6	08	6.4
900	30	1,068	14.3	11.7	08	5.9
850	30	1,549	11.2	8.4	08	5.3
800	30	2,055	9.8	-1.6	08	5.4
750	30	2,591	9.6	-9.7	08	4.5
700	30	3,161	7.8	-13.2	08	2.4
650	30	3,769	4.7	-16.1	09	1.9
600	30	4,416	1.1	-19.0	09	1.7
550	30	5,110	-3.3	-23.1	05	1.4
500	30	5,856	-8.6	-26.9	04	.5
450	30	6,665	-14.0	-30.8	02	.7
400	30	7,548	-20.2	-36.7	33	1.7
350	30	8,525	-27.9	-43.3	31	2.5
300	30	9,610	-36.9	-50.0	29	3.7
250	30	10,844	-47.1		30	4.8
200	30	12,283	-58.4		29	8.4
175	30	13,113	-63.6		28	11.7
150	30	14,[illegible]48	-68.3		28	14.0
125	30	15,137	-70.0		28	11.5
100	30	16,462	-70.1		27	6.1
80	30	17,796	-68.0		25	1.9
70	30	18,600	-67.1		07	1.2
60	30	19,536	-64.4		09	4.9
50	30	20,659	-61.6		10	6.8
40	27	22,055	-58.5		09	7.7
30	24	23,878	-54.9		09	10.8
25	24	25,051	-52.2		09	11.6
20	24	26,505	-49.1		09	12.1
15	21	28,408	-45.3		09	10.8
10	17	31,134	-41.3		08	12.3

LITTLE ROCK, AR — 1004 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	79	17.9	15.0	01	.3
1000	25	122	18.7	15.3	36	.3
950	31	554	19.1	13.7	21	1.6
900	31	1,018	16.9	10.8	23	3.0
850	31	1,503	14.0	7.2	24	4.4
800	31	2,013	11.5	1.9	24	4.5
750	31	2,550	8.2	-3.4	25	5.1
700	31	3,116	4.4	-9.1	26	6.1
650	31	3,716	.6	-11.8	25	6.6
600	31	4,354	-3.4	-17.2	25	7.6
550	31	5,036	-7.9	-21.8	25	8.6
500	31	5,770	-12.9	-25.7	25	9.7
450	31	6,505	-18.2	-30.6	25	9.9
400	30	7,436	-24.2	-37.6	25	13.3
350	30	8,399	-31.1	-43.6	25	16.8
300	30	9,471	-39.4	-49.7	25	19.5
250	30	10,695	-43.7		25	21.6
200	30	12,131	-57.8		25	26.7
175	30	12,968	-59.8		26	27.0
150	30	13,929	-60.6		26	23.1
125	30	15,064	-60.9		26	17.6
100	30	16,445	-62.6		25	11.8
80	30	17,812	-64.5		23	6.2
70	30	18,630	-63.6		25	1.8
60	30	19,581	-61.8		09	1.1
50	30	20,716	-59.3		09	2.5
40	30	22,124	-55.5		07	4.1
30	30	23,968	-52.3		08	4.4
25	30	25,154	-49.8		08	3.4
20	29	26,621	-47.3		08	2.6
15	21	28,522	-44.7		06	2.9
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MCGRATH, AK — 997 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	103	3.6	-1.8	27	.3
1000	11	145	5.0	-1.9	26	1.3
950	31	496	5.1	-4.1	19	.7
900	31	935	2.3	-5.4	16	1.3
850	31	1,394	-1.3	-6.9	15	2.1
800	31	1,874	-4.7	-10.5	15	3.1
750	31	2,379	-8.3	-12.7	15	3.8
700	31	2,911	-11.8	-16.6	16	4.1
650	31	3,476	-15.1	-20.2	15	4.4
600	31	4,076	-19.0	-24.3	15	5.0
550	31	4,719	-23.3	-28.4	15	5.6
500	31	5,409	-28.1	-34.2	15	6.3
450	31	6,157	-33.7	-38.1	15	6.1
400	31	6,973	-39.5	-43.4	15	6.8
350	31	7,878	-45.6		15	7.3
300	31	8,890	-50.6		15	8.0
250	31	10,075	-50.8		16	7.5
200	31	11,541	-47.1		17	6.0
175	30	12,428	-46.6		17	4.2
150	30	13,451	-46.8		17	3.9
125	29	14,659	-47.7		17	3.7
100	29	16,130	-48.2		16	3.2
80	28	17,602	-49.0		16	3.3
70	27	18,482	-49.4		15	3.0
60	27	19,492	-49.5		14	2.8
50	25	20,688	-49.8		13	3.2
40	25	22,148	-49.7		12	3.6
30	24	24,036	-49.2		10	4.0
25	24	25,232	-49.0		10	4.6
20	22	26,712	-47.9		09	5.4
15	18	28,638	-44.8		10	5.6
10	8	31,471	-38.2			

◆ MAJURO, MARSHALL IS. — 1011 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	3	28.2	24.6	08	4.2
1000	31	96	26.9	23.1	08	5.7
950	31	549	23.5	20.8	08	8.2
900	31	1,020	20.8	17.7	09	9.1
850	31	1,514	18.1	13.7	09	9.1
800	31	2,033	15.8	11.0	09	9.1
750	31	2,580	13.2	6.9	09	8.3
700	31	3,158	10.5	2.4	09	6.9
650	31	3,772	6.9	.4	09	5.5
600	31	4,427	3.3	-4.9	09	3.9
550	31	5,128	-.5	-8.3	09	2.8
500	31	5,885	-4.7	-13.6	11	1.6
450	31	6,708	-9.0	-22.3	10	.6
400	31	7,610	-14.5	-28.9	22	1.5
350	31	8,612	-21.5	-35.5	24	3.2
300	31	9,726	-29.8	-42.3	25	5.0
250	30	10,997	-40.2	-51.1	26	7.7
200	30	12,480	-52.6		26	11.1
175	30	13,329	-59.5		26	12.8
150	30	14,276	-67.3		26	13.8
125	30	15,357	-74.3		26	14.6
100	30	16,640	-78.1		27	10.1
80	30	17,918	-75.4		04	.6
70	30	18,699	-71.4		09	7.6
60	30	19,622	-66.6		09	14.3
50	30	20,740	-61.1		09	19.3
40	30	22,146	-55.6		09	14.3
30	30	24,002	-50.4		14	1.6
25	27	25,200	-47.0		26	2.9
20	25	26,691	-44.4		26	5.2
15	20	28,625	-41.8		27	3.5
10	5	31,415	-36.2			

*** MEDFORD, OR — 971 MB**

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	401	7.0	2.4	01	.5
1000						
950	31	585	9.7	2.5	30	.7
900	31	1,033	8.6	.3	30	1.1
850	31	1,504	6.1	-3.0	31	1.6
800	31	1,999	4.1	-8.8	32	2.8
750	31	2,521	1.4	-11.1	31	3.8
700	31	3,074	-1.6	-14.5	30	5.9
650	31	3,661	-4.5	-20.4	30	7.7
600	31	4,287	-8.0	-23.5	30	10.0
550	31	4,959	-12.0	-26.5	31	11.9
500	31	5,681	-16.7	-30.2	31	13.2
450	31	6,466	-22.3	-35.0	31	14.6
400	31	7,319	-28.0	-39.5	30	16.6
350	31	8,265	-35.6	-43.6	31	17.9
300	31	9,317	-43.6		31	19.4
250	31	10,519	-52.4		31	20.1
200	31	11,938	-58.9		30	20.4
175	31	12,775	-59.0		30	18.2
150	31	13,746	-57.1		30	15.8
125	31	14,897	-58.3		30	10.5
100	31	16,299	-58.6		29	7.1
80	30	17,709	-58.2		28	3.3
70	29	18,548	-57.2		29	1.7
60	29	19,523	-57.2		34	.7
50	29	[illegible],677	-57.0		04	1.4
40	28	22,093	-55.7		06	2.5
30	25	23,937	-54.0		08	3.4
25	24	25,110	-51.9		08	3.6
20	23	26,569	-49.6		07	3.3
15	21	28,458	-46.7		07	3.6
10	20	31,170	-41.2		06	2.5
	9	33,597	-37.5			

MERIDA, MEXICO — 1010 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	11	23.8	22.1	11	2.3
1000	31	97	24.1	21.6	13	5.4
950	31	547	22.9	18.2	14	11.7
900	31	1,019	22.8	9.9	14	9.7
850	31	1,515	20.5	7.1	13	6.5
800	31	2,036	17.2	3.9	12	3.8
750	31	2,584	13.8	-1.9	11	2.0
700	31	3,162	10.2	-6.6	09	1.0
650	31	3,774	6.3	-12.0	04	.7
600	31	4,425	2.2	-15.8	35	.7
550	31	5,122	-2.0	-19.3	34	2.5
500	31	5,873	-6.6	-23.4	33	3.2
450	31	6,689	-11.8	-27.2	31	3.7
400	31	7,580	-17.9	-33.0	30	5.2
350	31	8,568	-24.9	-38.8	29	7.3
300	31	9,667	-33.5	-46.3	29	9.6
250	31	10,922	-42.9		29	13.0
200	31	12,391	-54.2		28	14.4
175	30	13,[illegible]43	-60.3		28	15.2
150	30	14,179	-66.8		28	15.1
125	30	15,266	-72.0		29	12.6
100	30	16,569	-75.1		30	8.8
80	30	17,862	-74.4		32	4.1
70	30	18,647	-70.7		03	2.5
60	30	19,572	-65.5		06	3.8
50	29	20,697	-60.3		07	5.9
40	29	22,098	-57.5		08	7.9
30	27	23,935	-53.2		09	10.6
25	26	25,117	-50.4		09	11.5
20	25	26,579	-46.8		10	11.0
15	23	28,513	-4[illegible].9		11	9.9
10	8	31,235	-38.2			

MIAMI, FL — 1015 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	30	4	23.0	21.4	25	.7
1000	30	133	24.3	20.2	21	1.0
950	30	532	21.6	17.5	19	2.5
900	30	1,050	18.9	12.1	20	2.2
850	30	1,539	15.8	3.7	21	1.3
800	30	2,052	12.8	4.7	21	.9
750	30	2,592	10.0	-.4	22	1.1
700	30	3,163	7.1	-5.1	27	2.5
650	30	3,709	3.8	-7.9	29	3.3
600	30	4,415	.1	-12.7	29	4.3
550	30	5,107	-4.3	-17.2	30	5.4
500	30	5,852	-8.9	-21.3	30	6.5
450	30	6,600	-14.0	-27.1	30	7.8
400	30	7,543	-20.3	-32.5	29	9.1
350	29	8,521	-27.5	-38.5	29	10.7
300	29	9,608	-36.0	-46.6	29	13.5
250	29	10,849	-45.7		30	16.5
200	29	12,301	-56.0		30	20.8
175	29	13,142	-60.2		30	22.9
150	29	14,096	-63.8		30	19.3
125	29	15,203	-67.5		30	16.1
100	29	16,539	-70.1		31	9.7
80	29	17,862	-70.7		32	2.5
70	29	18,659	-68.2		04	1.8
60	29	19,594	-63.3		06	4.3
50	29	20,726	-59.9		07	4.9
40	29	22,133	-55.7		09	5.9
30	28	23,980	-52.1		09	7.5
25	28	25,165	-50.2		09	7.5
20	26	26,640	-45.9		10	8.5
15	21	28,574	-42.8		08	8.7
10	5	31,313	-39.9			

MIDLAND, TX — 913 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	874	15.0	10.5	16	1.1
1000						
950						
900	31	995	16.7	9.7	16	2.4
850	31	1,482	16.1	4.2	19	5.2
800	31	1,996	14.2	-.9	22	5.1
750	31	2,538	10.9	-5.7	24	5.0
700	31	3,108	6.6	-9.9	26	5.6
650	31	3,712	2.1	-12.8	26	6.5
600	31	4,352	-2.9	-15.2	25	8.4
550	31	5,034	-8.3	-19.9	25	11.4
500	31	5,767	-13.3	-26.8	25	13.3
450	31	6,560	-18.8	-32.5	25	14.8
400	31	7,426	-25.4	-39.9	25	17.3
350	31	8,384	-32.8	-45.8	25	19.7
300	31	9,448	-40.7	-51.5	25	22.0
250	31	10,665	-49.6		25	25.8
200	30	12,101	-58.0		25	30.7
175	30	12,937	-60.2		25	31.3
150	29	13,897	-60.2		25	27.7
125	28	15,029	-61.5		25	22.2
100	27	16,408	-63.6		26	13.8
80	26	17,776	-64.8		25	5.2
70	26	18,592	-64.1		22	.4
60	26	19,542	-61.6		12	1.2
50	25	20,679	-59.2		09	2.7
40	24	22,090	-55.9		08	3.5
30	24	23,934	-52.7		07	4.3
25	22	25,117	-50.4		08	3.2
20	20	26,581	-46.7		07	3.2
15	16	28,505	-43.3		07	2.6
10	6	31,250	-38.3			

MONTERREY, MEXICO — 959 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	30	423	21.7	19.3	01	.3
1000						
950	30	532	21.7	19.1	08	.5
900	30	1,002	20.3	16.6	14	2.5
850	30	1,495	18.8	11.3	17	4.0
800	30	2,015	17.0	5.0	18	3.5
750	30	2,563	14.3	-.5	23	3.8
700	30	3,142	10.6	-4.9	26	4.8
650	30	3,756	5.9	-8.7	26	5.3
600	30	4,404	.7	-12.5	26	7.1
550	30	5,095	-4.8	-14.2	25	8.5
500	30	5,837	-10.1	-22.1	26	10.8
450	30	6,641	-15.4	-28.2	26	13.2
400	30	7,520	-21.0	-34.3	25	16.2
350	30	8,495	-28.3	-40.7	25	19.0
300	30	9,580	-36.4	-47.8	25	22.7
250	30	10,819	-45.8		25	28.6
200	30	12,270	-56.2		25	32.0
175	30	13,109	-60.9		25	32.0
150	30	14,058	-65.0		25	29.2
125	30	15,161	-68.0		25	23.2
100	30	16,495	-70.3		25	11.8
80	30	17,817	-70.7		23	3.7
70	30	18,614	-68.0		14	1.6
60	30	19,550	-63.7		10	3.2
50	30	20,680	-60.2		09	4.7
40	28	22,083	-56.7		08	5.0
30	26	23,920	-53.2		08	7.1
25	24	25,103	-50.7		08	7.5
20	23	26,572	-47.1		09	6.8
15	17	28,501	-43.0		07	7.4
10	5	31,310	-38.9			

MONETT, MO — 962 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	438	14.3	11.9	14	1.9
1000						
950	31	548	16.6	12.0	16	2.2
900	31	1,010	16.1	8.1	23	4.0
850	31	1,494	13.7	3.2	25	5.2
800	31	2,003	10.7	-.8	25	5.9
750	31	2,538	7.3	-5.1	25	5.6
700	31	3,102	3.6	-9.3	25	5.9
650	31	3,699	-.4	-12.6	25	6.8
600	31	4,335	-4.3	-17.4	25	7.9
550	31	5,015	-8.8	-22.9	24	8.9
500	31	5,746	-13.9	-28.4	25	10.7
450	31	6,538	-19.3	-32.7	25	11.1
400	31	7,403	-26.1	-38.8	25	12.3
350	30	8,360	-33.1	-43.6	25	14.3
300	29	9,424	-40.9	-46.4	25	16.4
250	29	10,639	-50.1		25	19.7
200	29	12,067	-58.5		25	23.8
175	28	12,906	-60.4		25	20.8
150	28	13,870	-58.9		25	18.5
125	28	15,009	-60.2		26	14.2
100	28	16,396	-61.8		25	10.3
80	27	17,770	-63.0		25	5.0
70	27	18,598	-62.3		25	2.2
60	27	19,554	-61.1		11	.3
50	27	20,692	-59.2		10	2.0
40	27	22,100	-56.5		08	3.1
30	26	23,934	-53.3		09	3.9
25	25	25,117	-51.2		09	2.9
20	22	26,571	-48.4		08	3.1
15	17	28,476	-44.7		04	1.4
10	12	31,215	-39.0			

RAWINSONDE DATA

Average monthly values

MAY 1972

NASHVILLE, TN 994 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	180	16.3	15.0	16	.6
1000						
950	31	564	17.8	13.3	24	2.2
900	31	1,026	15.4	10.1	26	2.7
850	31	1,509	12.7	5.6	26	3.3
800	31	2,016	10.3	.8	26	4.9
750	31	2,551	7.1	-3.5	25	5.6
700	31	3,115	3.6	-8.1	25	6.6
650	31	3,712	-.2	-11.6	26	7.4
600	31	4,348	-4.3	-16.3	26	7.6
550	31	5,029	-8.5	-22.8	26	8.9
500	31	5,761	-13.4	-27.6	26	9.1
450	31	6,556	-18.4	-32.4	27	10.9
400	31	7,424	-24.7	-37.8	27	12.9
350	31	8,385	-31.7	-42.6	26	14.4
300	31	9,453	-40.1	-47.6	26	17.8
250	31	10,673	-49.4		26	21.2
200	31	12,106	-58.2		26	24.9
175	31	12,941	-60.5		27	22.3
150	31	13,901	-60.5		27	18.4
125	31	15,037	-61.1		27	14.5
100	31	16,417	-63.0		27	10.8
80	30	17,784	-63.8		28	4.9
70	29	18,609	-63.1		30	2.4
60	29	19,562	-61.2		03	1.9
50	29	20,699	-59.2		08	2.2
40	27	22,107	-56.5		07	3.9
30	27	23,949	-52.7		08	3.9
25	25	25,136	-50.5		09	3.1
20	25	26,599	-48.4		09	2.8
15	25	28,509	-44.5		09	1.7
10	9	31,215	-39.8			

• NOME, AK 1010 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	5	-.3	-2.9	36	2.0
1000	29	95	1.9	-4.6	02	2.0
950	31	501	.7	-6.2	08	1.8
900	31	934	-1.6	-7.6	11	1.5
850	31	1,387	-4.1	-10.1	13	1.7
800	31	1,853	-6.7	-12.8	13	2.3
750	31	2,355	-9.6	-15.5	13	2.9
700	31	2,894	-12.8	-18.6	13	3.3
650	31	3,456	-16.3	-23.1	13	3.3
600	31	4,054	-20.1	-27.4	13	2.9
550	31	4,694	-24.4	-30.9	13	3.6
500	31	5,381	-29.2	-36.0	13	3.8
450	31	6,125	-34.7	-40.7	13	4.2
400	31	6,938	-40.8	-45.4	13	4.5
350	31	7,838	-46.5		13	4.8
300	31	8,847	-51.0		14	5.3
250	31	10,032	-50.3		15	5.0
200	31	11,501	-47.0		16	3.3
175	31	12,387	-46.5		17	2.5
150	31	13,410	-46.9		16	2.4
125	31	14,616	-47.9		18	2.7
100	31	16,086	-48.4		17	2.5
80	31	17,554	-48.6		16	3.0
70	31	18,433	-48.6		15	2.7
60	31	19,446	-48.9		14	3.5
50	30	20,639	-48.9		13	3.1
40	30	22,105	-49.0		13	3.5
30	29	23,993	-49.1		10	4.2
25	26	25,198	-48.3		10	5.1
20	25	26,574	-47.4		09	5.0
15	21	28,589	-45.1		09	5.6
10	9	31,377	-39.8			

NORTH PLATTE, NE 914 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	847	7.6	4.9	35	.8
1000						
950						
900	29	987	10.6	4.3	18	.9
850	31	1,455	11.2	.1	21	3.9
800	31	1,960	9.3	-2.7	22	4.1
750	31	2,492	6.0	-7.2	23	4.1
700	31	3,053	2.2	-11.7	24	4.3
650	31	3,647	-2.2	-14.0	25	5.3
600	31	4,277	-6.8	-17.6	25	6.7
550	31	4,950	-11.8	-22.3	25	7.9
500	31	5,674	-16.8	-27.8	25	9.5
450	31	6,457	-22.0	-35.0	25	10.8
400	31	7,312	-28.4	-41.1	25	12.2
350	31	8,258	-35.5	-45.3	25	13.7
300	31	9,310	-43.7		24	15.3
250	31	10,513	-52.1		23	18.5
200	31	11,937	-57.6		24	19.2
175	31	12,781	-56.7		25	16.6
150	31	13,761	-56.3		25	13.6
125	31	14,919	-56.7		25	10.6
100	31	16,331	-57.5		24	8.3
80	31	17,737	-58.7		25	5.3
70	31	18,576	-58.7		25	3.4
60	30	19,544	-58.2		23	1.4
50	30	20,695	-57.0		03	.9
40	29	22,114	-55.4		07	1.5
30	29	23,961	-53.3		08	3.0
25	28	25,133	-51.5		08	3.4
20	27	26,587	-49.1		07	2.6
15	22	28,489	-46.0		08	3.3
10	13	31,206	-41.3		10	.9

OAKLAND, CA 1014 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	6	11.[illegible]	[illegible].2	25	1.[illegible]
1000	31	125	11.[illegible]	7.0	29	1.6
950	31	554	12.[illegible]	1.7	32	2.9
900	31	1,010	14.2	-5.1	34	4.5
850	31	1,490	12.3	-7.7	34	4.3
800	31	1,995	9.6	-10.2	34	4.4
750	31	2,528	6.[illegible]	-13.8	33	5.0
700	31	3,089	2.7	-17.9	33	5.9
650	31	3,684	-1.2	-2[illegible].4	33	7.0
600	31	4,318	-5.[illegible]	-23.7	33	[illegible]
550	31	4,995	-9.6	-27.5	32	11.4
500	31	5,724	-14.6	-31.5	32	12.5
450	31	6,514	-20.1	-35.7	32	13.8
400	31	7,375	-26.7	-41.1	32	12.8
350	31	8,328	-34.0	-47.4	32	14.4
300	31	9,387	-42.2	-53.7	32	16.1
250	31	10,595	-51.6		32	18.1
200	31	12,014	-59.5		31	17.8
175	31	12,847	-60.2		31	15.6
150	31	13,810	-59.6		30	14.3
125	31	14,949	-60.5		30	11.0
100	31	16,337	-60.8		29	8.0
80	30	17,725	-6[illegible]		29	4.4
70	30	18,562	-59.[illegible]		29	3.0
60	30	19,530	-58.6		30	1.2
50	30	20,677	-58.1		08	1.5
40	30	22,086	-56.9		07	2.5
30	29	23,918	-54.[illegible]		08	3.9
25	25	25,089	-52.3		08	2.8
20	23	26,537	-50.5		08	2.1
15	11	28,436	-47.3		05	1.5
10						

OMAHA, NE 965 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	[illegible]	13.[illegible]	[illegible]	[illegible]	[illegible]
1000						
950	31	570	[illegible]	[illegible]	[illegible]	[illegible]
900	31	980	14.3	4.3	[illegible]	[illegible]
850	31	[illegible]	[illegible]	.0	[illegible]	[illegible]
800	31	[illegible]	9.3	-4.4	25	[illegible]
750	31	2,505	5.8	-8.5	[illegible]	[illegible]
700	31	[illegible]	.9	[illegible]	[illegible]	5.2
650	31	[illegible]	[illegible]	-14.[illegible]	[illegible]	[illegible]
600	31	[illegible]	-6.[illegible]	-18.3	[illegible]	[illegible]
550	31	4,965	[illegible]	-22.5	[illegible]	[illegible]
500	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
450	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
400	31	7,338	[illegible]	[illegible]	25	[illegible]
350	31	8,280	-34.9	[illegible]	25	15.4
300	31	9,341	[illegible]	[illegible]	25	[illegible]
250	31	[illegible]	[illegible]		25	[illegible]
200	31	[illegible]	-57.5		25	[illegible]
175	31	[illegible]	-57.6		25	[illegible]
150	31	[illegible]	[illegible]		25	[illegible]
125	30	[illegible]	-57.0		25	[illegible]
100	29	16,359	[illegible]		25	[illegible]
80	29	[illegible]	-59.1		[illegible]	[illegible]
70	29	18,598	-59.3		[illegible]	[illegible]
60	29	[illegible]	[illegible]		[illegible]	[illegible]
50	29	[illegible]	-57.3		[illegible]	[illegible]
40	27	[illegible]	-55.0		[illegible]	[illegible]
30	27	[illegible]	-52.3		[illegible]	[illegible]
25	25	[illegible]	-50.6		[illegible]	[illegible]
20	23	[illegible]	-47.8		[illegible]	[illegible]
15	17	28,543	-44.8		[illegible]	[illegible]
10	12	31,280	-39.5			

PAGO PAGO, AMERICAN SAMOA + 1012 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	5	28.3	23.9	09	6.1
1000	31	109	26.3	22.2	09	6.4
950	31	561	22.7	20.2	09	7.2
900	31	1,031	19.3	17.4	08	7.1
850	31	1,521	16.7	14.3	08	6.4
800	31	2,038	14.6	10.9	07	4.8
750	31	2,583	12.4	5.3	07	3.4
700	31	3,159	9.4	1.7	07	2.5
650	31	3,771	6.0	-1.6	08	2.1
600	31	4,423	2.2	-5.7	06	1.0
550	31	5,121	-1.4	-12.3	07	.3
500	31	5,875	-5.6	-17.0	02	.4
450	31	6,694	-10.6	-23.1	27	.9
400	31	7,591	-16.2	-28.9	26	2.4
350	31	8,587	-22.8	-36.3	25	3.3
300	31	9,695	-31.4	-45.0	24	6.2
250	31	10,959	-41.6		25	8.4
200	30	12,430	-53.8		24	10.5
175	30	13,274	-60.4		24	10.9
150	30	14,219	-67.2		25	8.6
125	30	15,299	-74.4		25	6.4
100	30	16,581	-78.5		24	3.3
80	30	17,859	-75.8		13	.7
70	30	18,638	-72.1		10	3.0
60	29	19,559	-66.8		09	6.2
50	28	20,675	-61.8		08	8.1
40	28	22,065	-59.3		08	8.6
30	27	23,886	-54.3		09	6.0
25	27	25,064	-50.8		08	3.0
20	26	26,529	-46.8		28	1.7
15	22	28,459	-42.7		27	6.2
10	13	31,223	-38.0		27	10.1

• PEORIA, IL 990 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	200	12.5	10.3	13	.8
1000						
950	31	553	15.1	7.4	22	1.5
900	31	1,010	13.3	5.6	26	3.3
850	31	1,489	10.5	1.4	27	4.1
800	31	1,993	8.3	-3.2	27	4.9
750	31	2,523	5.3	-7.3	26	5.5
700	31	3,083	1.5	-10.1	26	6.4
650	31	3,676	-2.0	-13.8	26	7.8
600	31	4,308	-6.0	-18.5	26	8.3
550	31	4,984	-10.5	-23.4	26	8.7
500	31	5,711	-15.2	-28.9	26	9.7
450	31	6,498	-20.8	-34.3	26	10.8
400	31	7,359	-26.8	-40.3	26	12.7
350	31	8,312	-33.9	-45.4	26	14.2
300	31	9,370	-42.3	-48.9	26	16.8
250	31	10,580	-50.9		26	22.0
200	31	12,006	-58.1		26	23.8
175	31	12,846	-58.3		26	20.5
150	31	13,819	-57.6		26	16.3
125	31	14,966	-58.6		26	12.4
100	31	16,366	-59.6		26	10.1
80	31	17,758	-60.6		27	6.4
70	30	18,591	-60.5		28	3.9
60	30	19,552	-57.6		30	2.3
50	29	20,701	-58.0		02	1.4
40	28	22,115	-56.1		07	2.3
30	26	23,963	-52.9		08	3.0
25	24	25,147	-51.3		07	3.6
20	24	26,605	-48.9		08	3.0
15	20	28,518	-45.1		06	1.8
10	9	31,298	-39.5			

• PITTSBURGH, PA 973 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	30	359	13.8	8.8	20	.8
1000						
950	30	558	15.1	9.5	21	1.7
900	30	1,017	13.7	6.6	25	3.2
850	30	1,496	10.6	4.0	26	4.5
800	30	1,999	7.6	.4	26	5.9
750	30	2,528	4.7	-4.6	27	6.5
700	30	3,088	1.5	-9.9	27	7.3
650	30	3,681	-1.8	-13.4	27	8.4
600	30	4,313	-5.7	-16.3	27	9.0
550	30	4,990	-9.9	-21.9	27	9.4
500	30	5,719	-14.7	-28.3	27	9.9
450	30	6,509	-19.8	-32.5	27	10.7
400	30	7,372	-25.9	-38.3	27	12.2
350	30	8,328	-33.1	-43.3	27	14.1
300	30	9,391	-41.2	-47.2	27	16.9
250	29	10,606	-50.0		28	19.2
200	29	12,038	-57.6		28	20.2
175	29	12,877	-59.5		28	16.9
150	29	13,843	-59.1		27	14.3
125	29	14,985	-59.4		28	12.3
100	29	16,379	-60.1		29	9.7
80	28	17,771	-60.9		29	6.6
70	28	18,602	-60.4		30	4.5
60	28	19,566	-59.3		33	2.5
50	28	20,713	-57.4		36	1.5
40	28	22,130	-55.3		07	2.9
30	28	23,979	-52.6		08	3.4
25	26	25,166	-50.8		09	3.9
20	24	26,624	-48.2		08	3.7
15	15	28,509	-45.7		07	1.8
10						

PONAPE, CAROLINE IS. + 1005 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	39	28.6	24.4	07	3.1
1000	31	80	27.0	22.9	08	3.5
950	31	534	23.6	21.0	09	7.0
900	31	1,005	20.5	17.9	09	8.4
850	31	1,498	17.8	13.6	09	8.3
800	31	2,016	15.9	9.7	09	7.8
750	31	2,563	13.4	5.3	09	7.0
700	31	3,141	9.8	2.6	10	6.6
650	31	3,754	6.4	-.9	10	6.8
600	31	4,407	2.7	-4.0	09	6.7
550	31	5,107	-1.0	-7.2	10	4.6
500	31	5,863	-5.0	-14.0	10	3.2
450	31	6,684	-9.8	-19.5	10	2.3
400	31	7,584	-15.4	-25.7	10	1.8
350	31	8,583	-22.[illegible]	-33.1	16	1.3
300	31	9,695	-30.4	-41.3	23	2.3
250	31	10,965	-40.7	-48.6	24	4.5
200	31	12,443	-53.[illegible]		25	7.9
175	31	13,291	-6[illegible]		26	9.2
150	31	14,235	-67.[illegible]		26	9.8
125	31	15,313	-74.[illegible]		25	9.1
100	31	16,590	-80.2		27	5.6
80	30	17,856	-77.8		07	1.8
70	30	18,629	-72.9		09	6.9
60	30	19,544	-67.9		09	13.8
50	30	20,656	-62.3		09	19.5
40	29	22,053	-57.3		09	15.3
30	29	23,896	-52.[illegible]		09	3.7
25	29	25,083	-48.8		29	.8
20	28	26,563	-45.5		26	3.8
15	22	28,491	-42.[illegible]		25	3.3
10	5	31,265	-40.1			

PORTLAND, ME 1014 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	20	10.9	7.4	32	[illegible]
1000	31	131	11.5	[illegible]	31	[illegible]
950	31	5[illegible]	[illegible]	3.5	29	1.5
900	31	1,01[illegible]	10.2	.5	28	[illegible]
850	31	1,487	[illegible]	-1.4	29	[illegible]
800	31	1,984	[illegible]	-2.9	3[illegible]	[illegible]
750	31	2,509	2.1	-7.7	3[illegible]	[illegible]
700	31	3,063	[illegible]	-12.1	30	[illegible]
650	31	3,651	-3.0	-15.9	30	7.2
600	31	4,279	-7.3	-19.8	29	7.8
550	31	4,952	-11.4	-24.8	29	[illegible]
500	31	5,677	-16.0	-29.5	29	[illegible]
450	31	6,462	-21.3	-33.4	29	[illegible]
400	30	7,320	-27.3	-39.7	29	[illegible]
350	30	8,270	-34.0	-43.9	29	[illegible]
300	30	9,332	-43.0	-49.6	29	[illegible]
250	30	10,530	-52.[illegible]		29	[illegible]
200	30	11,962	-57.2		[illegible]	[illegible]
175	30	12,805	-57.9		29	[illegible]
150	30	13,779	-57.0		29	[illegible]
125	30	14,933	-57.0		29	[illegible]
100	30	16,340	-58.3		29	[illegible]
80	30	17,745	-5[illegible]		3[illegible]	[illegible]
70	30	18,590	-56.9		3[illegible]	[illegible]
60	30	19,556	-56.0		3[illegible]	[illegible]
50	29	20,733	-54.7		[illegible]	[illegible]
40	29	22,163	-53.4		[illegible]	[illegible]
30	28	24,022	-51.7		[illegible]	[illegible]
25	27	[illegible]	-50.[illegible]		[illegible]	[illegible]
20	25	26,069	-48.4		[illegible]	[illegible]
15	23	[illegible]	[illegible]		[illegible]	[illegible]
10	13	[illegible]	-38.0		[illegible]	[illegible]

• QUILLAYUTE, WA 1011 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	58	7.1	5.5	10	.4
1000	30	155	7.6	5.3	07	.3
950	31	570	6.9	1.9	21	1.4
900	31	1,013	4.8	-.8	23	2.6
850	31	1,478	2.9	-5.9	23	2.9
800	31	1,967	.6	-9.2	26	3.5
750	31	2,483	-2.1	-12.5	27	4.4
700	31	3,028	-4.8	-15.6	27	5.7
650	31	3,608	-7.7	-19.4	27	7.2
600	31	4,227	-11.5	-23.2	28	8.4
550	31	4,889	-15.5	-26.6	28	9.9
500	31	5,601	-20.2	-30.3	28	12.1
450	31	6,375	-25.3	-35.1	29	14.3
400	31	7,219	-31.3	-39.6	29	17.4
350	31	8,155	-37.7	-44.2	29	18.6
300	31	9,199	-45.2		29	21.1
250	31	10,395	-52.7		29	21.9
200	31	11,820	-56.5		29	18.4
175	31	12,669	-55.6		29	15.8
150	31	13,655	-54.7		28	12.[illegible]
125	31	14,820	-55.5		28	8.4
100	30	16,235	-55.9		27	4.[illegible]
80	29	17,659	-55.7		25	2.4
70	29	18,515	-55.8		26	1.3
60	28	19,497	-55.8		15	.2
50	28	20,657	-55.8		07	.9
40	27	22,079	-55.2		07	1.8
30	26	23,927	-53.8		08	3.3
25	[illegible]	25,104	-52.5		08	3.9
20	[illegible]	26,565	-50.4		07	4.7
15	17	28,447	-47.3		06	4.9
10	[illegible]	31,201	[illegible]			
7						

RAPID CITY, SD 902 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	966	6.9	3.3	32	2.3
1000						
950						
900	21	1,014	7.4	2.3	3[illegible]	2.0
850	31	1,453	8.5	.4	3[illegible]	1.3
800	31	1,953	6.3	-2.7	25	1.4
750	31	2,479	3.2	-5.6	24	2.4
700	31	3,035	-.3	-8.8	24	3.9
650	31	3,624	-4.3	-12.1	24	5.1
600	31	4,250	-8.6	-18.1	24	6.9
550	31	4,919	-13.1	-23.0	24	7.5
500	31	5,638	-18.2	-27.7	24	8.7
450	31	6,417	-23.6	-35.[illegible]	25	10.0
400	31	7,266	-30.3	-4[illegible].7	25	11.1
350	31	8,205	-37.3	-45.7	25	12.7
300	31	9,249	-45.2		25	14.7
250	31	10,447	-52.6		24	15.5
200	31	11,875	-55.7		24	14.8
175	30	12,728	-54.1		25	13.2
150	30	13,716	-54.4		25	11.1
125	30	14,883	-55.2		25	8.1
100	30	16,304	-56.1		25	6.1
80	30	17,721	-56.7		25	4.0
70	29	18,572	-57.[illegible]		25	2.5
60	28	19,543	-57.5		25	1.1
50	28	20,698	-56.6		15	[illegible]
40	28	22,118	-55.2		06	[illegible]
30	27	23,960	-52.9		06	2.5
25	26	25,142	-5[illegible]		[illegible]	3.6
20	25	26,598	-49.4		[illegible]	3.2
15	23	28,496	-4[illegible]		06	2.6
10	17	31,239	-41.1		[illegible]	3.5
7	6	33,760	-36.5			

ST CLOUD, MN 977 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	316	8.9	6.7	05	.5
1000						
950	31	546	11.8	4.7	15	.8
900	31	999	11.1	1.4	21	2.2
850	31	1,473	8.2	-2.1	25	3.[illegible]
800	31	1,972	5.3	-3.0	25	4.5
750	31	2,496	2.5	-8.3	25	5.8
700	31	3,051	-.9	-11.9	25	6.6
650	31	3,639	-4.4	-16.8	25	7.7
600	31	4,265	-8.2	-21.3	26	8.9
550	31	4,935	-12.5	-26.1	26	9.8
500	31	5,656	-17.5	-31.1	26	10.2
450	31	6,436	-23.1	-36.2	26	11.3
400	31	7,288	-29.6	-4[illegible]	26	12.2
350	31	8,230	-36.6	-44.2	26	13.9
300	31	9,277	-44.5		26	15.[illegible]
250	31	10,476	-52.4		25	17.[illegible]
200	31	11,900	-5[illegible]		25	18.[illegible]
175	31	12,748	-55.9		25	15.[illegible]
150	31	13,733	-54.9		26	12.[illegible]
125	31	14,896	-55.8		2[illegible]	[illegible]
100	31	16,314	-56.4		25	7.[illegible]
80	3[illegible]	17,721	-57.6		27	4.8
70	3[illegible]	18,565	-57.4		27	[illegible]
60	3[illegible]	19,540	-57.3		26	1.2
50	26	20,698	-56.4		[illegible]	.4
40	27	[illegible]	-54.6		[illegible]	1.5
30	26	[illegible]	[illegible]		[illegible]	3.4
25	24	25,142	-50.9		[illegible]	[illegible]
20	22	[illegible]	-49.0		[illegible]	[illegible]
15	18	28,490	-46.0		[illegible]	2.[illegible]
10	11	[illegible]	-41.1			

• ST PAUL ISLAND, AK 101[illegible] MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	2[illegible]	[illegible]	-.9	-1.8	[illegible]3	2.1
1000	17	110	-1.0	-2.9	[illegible]3	1.9
950	2[illegible]	495	-3.1	-5.5	[illegible]2	[illegible].5
900	2[illegible]	[illegible]22	-5.[illegible]	-7.3	[illegible]2	[illegible].3
850	2[illegible]	1,368	-7.[illegible]	[illegible]	[illegible]	[illegible]
800	2[illegible]	1,839	-9.[illegible]	-14.6	1[illegible]	.8
750	2[illegible]	2,335	[illegible]	-16.7	1[illegible]	[illegible]
700	2[illegible]	2,861	[illegible]	-20.0	30	.5
650	19	3,423	-16.9	-24.2	33	1.2
600	19	4,020	-20.4	-2[illegible]	33	1.4
550	19	4,659	-24.3	-32.2	32	[illegible]
500	19	5,348	-28.5	-37.[illegible]	29	3.2
450	19	6,096	-33.[illegible]	-41.0	29	6.0
400	19	6,916	-37.9	-45.7	28	[illegible]
350	19	7,827	-43.6		28	12.9
300	19	8,849	-48.[illegible]		28	15.6
250	19	10,046	-49.[illegible]		27	11.4
200	19	11,520	[illegible]		27	8.7
175	19	12,407	[illegible]		26	7.9
150	19	13,428	-47.[illegible]		26	6.0
125	19	14,631	-48.5		25	5.2
100	19	16,095	-49.6		25	4.0
80	19	[illegible]	-50.1		23	3.[illegible]
70	19	18,427	-50.0		22	2.6
60	19	19,433	-50.3		2[illegible]	1.9
50	1[illegible]	[illegible]	-50.2		[illegible]	2.7
40	18	22,086	-50.4		[illegible]	1.5
30	18	23,964	-50.1		[illegible]	2.6
25	17	25,151	-50.0		[illegible]	2.8
20	16	26,618	-49.5		[illegible]	3.0
15	1[illegible]	[illegible]	-47.2		[illegible]	[illegible]
10	10	31,225	-4[illegible]			

SALEM, IL 993 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	3[illegible]	[illegible]74	15.0	12.0	11	[illegible]
1000						
950	3[illegible]	550	[illegible]	[illegible]	[illegible]	[illegible]
900	3[illegible]	1,016	[illegible]	[illegible]	[illegible]	[illegible]
850	3[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
800	3[illegible]	2,004	[illegible]	-2.[illegible]	26	[illegible]
750	3[illegible]	2,537	[illegible]	[illegible]	[illegible]	[illegible]
700	3[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
650	3[illegible]	3,690	-.5	[illegible]	[illegible]	7.1
600	30	4,331	-4.6	-19.0	25	8.3
550	3[illegible]	[illegible]	-9.0	-24.1	25	8.7
500	30	5,741	[illegible]	[illegible]	[illegible]	[illegible]
450	30	6,533	[illegible]	-33.0	[illegible]	10.7
400	30	7,398	[illegible]	-39.[illegible]	[illegible]	[illegible]
350	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
300	[illegible]	[illegible]	[illegible]	[illegible]	26	[illegible]
250	30	10,635	[illegible]		26	[illegible]
200	[illegible]	[illegible]	[illegible]		26	[illegible]
175	30	12,90[illegible]	[illegible]		[illegible]	21.7
150	30	13,[illegible]	[illegible]		[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
50	29	20,724	[illegible]		[illegible]	[illegible]
40	28	22,142	[illegible]		[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
10						

RAWINSONDE DATA

Average monthly values

SALEM, OR
1012 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	[illegible]	7.1	[illegible]	[illegible]	1.1
1000	30	159	9.7	5.1	21	.4
950	31	580	8.4	2.0	27	1.4
900	31	[illegible]	6.4	.5	28	2.4
850	31	1,493	4.3	-5.2	24	3.3
800	31	[illegible]	2.2	-7.3	24	4.6
750	31	[illegible]	-.2	-12.1	29	5.7
700	31	[illegible]	-3.0	-15.5	29	7.2
650	31	3,637	-6.3	-20.1	29	8.6
600	31	4,259	-9.8	-24.2	30	10.4
550	31	4,925	-13.5	-27.3	[illegible]	12.0
500	31	5,643	-18.5	-31.2	[illegible]	13.7
450	31	[illegible]	-23.6	-35.7	30	16.1
400	31	7,271	-29.7	-40.3	30	18.2
350	31	[illegible]	-36.4	-44.9	31	20.8
300	30	[illegible]	-44.3		31	22.6
250	30	[illegible]	-52.4		31	22.4
200	30	[illegible]	-57.8		31	21.5
175	30	12,724	-57.0		30	17.6
150	30	[illegible]	[illegible]		30	13.7
125	30	[illegible]	-56.8		30	10.0
100	30	16,276	-56.5		30	[illegible]
80	30	[illegible]	-56.6		29	2.3
70	30	18,538	-56.8		30	1.1
60	30	19,516	-56.5		[illegible]	.7
50	30	20,673	-56.5		04	.9
40	29	[illegible]	-55.5		06	2.2
30	28	23,939	-53.3		08	3.5
25	28	[illegible]	-51.9		08	3.6
20	24	26,572	-49.6		06	3.8
15	[illegible]	28,474	-46.7		08	4.5
10	[illegible]	31,170	-42.1		05	2.2
7						

SALT LAKE CITY, UT
859 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	1,288	7.7	1.5	15	2.6
1000						
950						
900						
850	31	1,473	9.1	-2.1	17	3.2
800	31	1,973	5.4	-5.1	[illegible]	3.1
750	31	2,500	3.1	-7.5	24	2.5
700	31	3,055	-1.3	[illegible]	25	4.1
650	31	3,641	-5.4	-13.9	27	5.7
600	31	4,263	-9.8	-16.9	29	7.7
550	31	4,930	-14.2	-22.7	28	[illegible]
500	31	5,547	-19.0	-28.8	28	8.7
450	31	6,423	-24.4	-34.4	28	9.0
400	31	7,270	[illegible]	-39.7	28	9.3
350	31	8,208	-37.3	-45.5	28	10.6
300	31	9,253	-44.9		28	12.4
250	31	10,451	-52.2		29	12.7
200	31	11,878	-56.6		29	12.0
175	31	12,725	-56.4		28	10.9
150	31	13,703	-56.1		27	9.7
125	31	14,862	-56.6		27	8.3
100	31	16,272	-57.8		26	5.6
80	31	17,678	-58.3		26	3.5
70	31	18,519	-58.0		25	1.7
60	31	19,490	-58.4		27	.2
50	30	20,637	-57.7		05	.6
40	30	22,049	-56.4		05	1.7
30	30	23,889	-53.5		07	2.5
25	29	25,067	-52.0		06	3.0
20	29	26,519	-49.9		07	3.5
15	27	28,407	-47.0		07	2.7
10	22	31,140	-41.6		05	2.8
7						

SAN DIEGO, CA
999 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	124	12.5	10.8	21	.3
1000	12	130	12.5	10.2	01	.4
950	31	542	[illegible]	5.0	22	.4
900	31	995	13.0	-2.9	31	1.1
850	31	1,475	13.4	-7.2	32	2.9
800	31	1,983	10.9	-9.7	32	2.5
750	31	2,517	7.5	-13.3	31	1.8
700	31	3,081	3.6	-16.3	31	2.4
650	31	3,678	-.1	-19.2	30	4.5
600	31	4,315	-3.8	-22.9	30	6.1
550	31	4,996	-8.3	-26.7	30	7.5
500	31	5,728	-13.2	-30.9	30	9.4
450	31	6,522	-18.8	-35.6	30	10.6
400	31	7,389	-25.5	-41.7	29	11.1
350	31	8,345	-33.3	-47.9	29	11.7
300	31	9,405	-42.0	-53.7	30	13.3
250	31	[illegible]	-50.7		30	15.3
200	30	[illegible]	-58.1		28	16.2
175	30	12,882	-59.6		28	16.3
150	30	13,845	-60.1		27	16.6
125	30	14,982	[illegible]		27	15.1
100	30	16,367	-61.5		27	11.4
80	30	17,748	-62.1		26	6.6
70	30	18,574	-61.7		27	3.8
60	30	19,531	-60.7		26	.4
50	30	20,669	-59.6		08	1.9
40	30	22,072	-57.3		08	2.9
30	27	23,902	-53.6		07	3.9
25	26	25,077	-51.8		08	3.7
20	26	26,532	-49.2		08	3.2
15	26	28,432	-46.2		10	1.8
10	18	31,171	-40.6		06	3.1
7	6	33,642	-38.4			

SAN JUAN, P. R.
1016 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	6	24.4	21.2	12	1.9
1000	31	143	23.6	20.2	12	3.7
950	31	591	20.8	17.5	12	6.5
900	31	1,057	17.9	13.1	13	6.8
850	31	1,545	[illegible]	9.0	12	6.3
800	31	2,057	12.5	3.2	12	5.3
750	31	2,597	10.3	-.7	11	4.4
700	31	3,169	7.7	-6.6	12	2.4
650	31	3,776	4.7	-11.4	13	1.0
600	31	4,424	1.0	-15.4	21	.4
550	31	5,118	-3.0	-20.1	28	1.2
500	31	5,866	-7.7	-23.9	28	2.5
450	31	6,678	-12.9	-28.3	28	4.0
400	31	7,566	-19.1	-33.2	28	5.8
350	31	8,549	-26.2	-39.1	29	8.2
300	31	9,642	-34.3	-46.5	29	10.9
250	31	10,891	[illegible]		28	16.2
200	30	12,354	-55.4		28	19.7
175	30	13,195	-61.0		28	21.6
150	29	14,139	-66.5		29	19.8
125	29	15,230	-71.2		29	15.6
100	29	16,541	-75.6		31	8.3
80	29	17,845	-72.6		35	3.3
70	29	18,636	-69.2		05	3.3
60	27	19,571	-64.4		09	7.0
50	27	20,697	-60.3		10	10.0
40	26	22,099	-57.7		10	14.3
30	24	23,931	-54.1		11	17.0
25	24	25,108	-51.1		11	15.1
20	23	26,574	-46.3		11	13.1
15	22	28,507	-41.7		10	11.9
10	14	31,296	-36.9		10	13.0
7						

* SAULT STE MARIE, MI
987 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	221	8.4	7.1	06	.4
1000						
950	31	543	12.3	5.2	21	.3
900	31	990	11.3	3.0	26	2.0
850	31	1,472	8.3	.9	26	2.8
800	31	1,970	5.2	-2.5	26	3.6
750	31	2,494	1.7	-6.0	26	4.8
700	31	3,047	-1.4	-11.1	26	5.2
650	31	3,634	-4.8	-14.0	26	5.9
600	31	4,260	-8.5	-17.9	25	7.0
550	31	4,929	-12.9	-22.2	25	7.0
500	31	5,650	-17.6	-27.8	25	7.5
450	31	6,431	-23.1	-33.1	25	8.4
400	31	7,282	-29.4	-38.8	25	9.2
350	31	8,225	-36.4	-42.6	25	11.2
300	31	9,274	-43.9	-48.4	26	13.6
250	31	10,478	-51.5		26	15.4
200	31	11,909	-56.1		27	15.5
175	31	12,757	-56.3		27	13.6
150	31	13,739	-55.1		27	11.8
125	31	14,903	-56.1		27	10.6
100	31	16,318	-57.0		28	8.5
80	31	17,729	-57.4		28	5.3
70	31	18,574	-57.2		29	4.5
60	31	19,551	-56.3		31	2.7
50	31	20,711	-55.4		34	1.3
40	31	22,139	-54.1		05	1.8
30	31	23,995	-52.1		07	3.3
25	29	25,183	-50.7		09	4.2
20	27	26,630	-49.1		08	4.3
15	25	28,536	-45.7		08	4.1
10	11	31,227	-41.2			
7						

* SHREVEPORT, LA
1003 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	79	18.7	16.9	14	.8
1000	26	116	19.5	16.8	16	.8
950	31	549	19.2	14.5	19	3.2
900	31	1,014	17.4	11.2	22	4.2
850	31	1,501	14.9	6.7	23	4.2
800	31	2,012	12.7	.9	24	4.2
750	31	2,551	9.4	-2.9	24	4.7
700	31	3,120	5.6	[illegible]	25	5.8
650	31	3,722	1.6	-12.3	25	6.5
600	31	4,302	-2.4	-17.0	26	8.0
550	31	5,046	-7.1	-21.5	25	9.4
500	31	[illegible]	-12.2	-27.4	25	10.3
450	31	6,579	-17.8	-32.0	26	12.3
400	31	7,450	-23.5	-37.3	26	14.2
350	30	[illegible]	-30.3	-43.5	26	17.1
300	30	9,491	-38.6	-50.2	25	20.8
250	30	10,719	-47.7		26	23.4
200	30	12,160	-57.2		26	27.5
175	30	12,997	-60.8		26	28.3
150	30	13,952	-62.1		26	24.3
125	30	15,076	-63.4		26	20.2
100	29	16,445	-64.7		26	[illegible]
80	28	17,797	-66.8		25	[illegible]
70	28	[illegible]	-65.2		24	1.4
60	28	19,551	[illegible]		09	[illegible]
50	29	[illegible]	-59.4		08	3.8
40	26	22,088	-56.4		08	4.0
30	28	23,930	-52.5		08	4.0
25	28	25,112	-49.7		08	3.4
20	27	26,581	-47.2		08	2.2
15	17	28,443	-44.3		09	[illegible]
10	[illegible]	31,261	-38.4			
7						

SPOKANE, WA
930 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	[illegible]	7.0	2.4	19	2.5
1000						
950						
900	31	994	3.7	-.9	22	3.2
850	31	1,466	6.7	-4.4	25	3.1
800	31	1,961	3.1	-5.7	26	3.2
750	31	2,480	-1.0	-7.1	27	3.7
700	31	3,027	-5.0	-10.9	28	3.8
650	31	3,606	-8.3	-16.1	29	4.8
600	31	4,223	-11.9	-22.7	28	5.5
550	31	4,884	-15.8	-27.4	29	6.5
500	31	5,596	-20.2	-31.2	29	7.7
450	31	6,368	-25.6	-36.4	29	8.6
400	31	7,212	-31.9	-41.0	28	9.0
350	31	8,146	-38.3	-43.5	28	9.8
300	31	9,168	-45.5		29	12.6
250	31	10,384	-52.3		29	15.8
200	31	11,817	-54.5		29	15.1
175	31	12,676	-53.3		29	10.6
150	31	13,669	-53.1		29	8.9
125	31	14,842	-53.7		28	6.3
100	30	16,273	-54.7		27	4.0
80	30	17,701	-54.7		27	2.1
70	30	18,554	-55.5		29	1.5
60	31	19,537	-55.4		33	.8
50	30	20,700	-55.3		06	1.0
40	30	22,127	-54.2		06	2.2
30	29	23,979	-52.7		07	4.0
25	29	25,160	-51.3		07	4.3
20	26	26,604	-49.8		07	4.0
15	25	28,505	-46.4		07	4.0
10	11	31,204	-41.4			
7						

TAMPA, FL
1014 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	8	22.1	20.5	11	.9
1000	31	130	22.9	20.1	16	1.3
950	31	578	21.2	15.8	20	2.5
900	31	1,045	18.8	10.9	21	2.4
850	31	1,534	15.8	6.4	22	2.2
800	31	2,046	12.9	2.2	23	2.1
750	31	2,586	9.9	-1.9	23	2.0
700	31	3,156	6.7	-6.8	26	2.3
650	31	3,761	3.2	-11.3	28	3.5
600	31	4,405	-.5	-15.6	28	5.5
550	31	5,095	-5.0	-19.0	28	7.3
500	31	5,837	-9.9	-23.2	29	9.3
450	31	6,643	-15.1	-28.6	28	9.9
400	31	7,523	-21.1	-33.9	28	11.1
350	31	8,498	-28.4	-40.0	28	13.1
300	31	9,581	-36.8	-48.1	29	15.6
250	31	10,818	-46.3		29	18.7
200	31	12,268	-56.3		29	21.5
175	31	13,107	-60.6		29	24.1
150	31	14,059	-63.6		29	21.1
125	31	15,171	-66.5		29	16.1
100	31	16,514	-69.2		29	10.0
80	31	17,840	-70.1		31	3.4
70	31	18,638	-68.6		34	1.0
60	31	19,572	-64.2		05	2.5
50	31	20,701	-59.7		07	4.4
40	31	22,107	-56.4		08	4.9
30	30	23,951	-52.1		09	5.8
25	27	25,131	-50.2		10	4.9
20	28	26,594	-47.2		10	5.7
15	21	28,515	-43.7		09	5.2
10	12	31,242	-40.2		08	1.6
7	5	33,692	-37.5			

TOPEKA, KS
981 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	268	13.7	11.6	15	1.0
1000						
950	31	539	16.5	9.4	20	3.3
900	31	1,000	15.3	5.1	22	5.6
850	31	1,482	12.9	.5	24	6.1
800	31	1,989	10.0	-2.8	24	5.8
750	31	2,523	6.7	-7.0	25	6.1
700	31	3,085	2.9	-10.4	26	6.5
650	31	3,681	-1.1	-13.5	26	6.6
600	31	4,314	-5.6	-17.5	26	6.5
550	31	4,991	-10.3	-23.4	25	7.1
500	31	5,718	-15.0	-29.2	26	8.9
450	31	6,507	-20.4	-34.2	25	10.1
400	30	7,367	-26.8	-40.3	26	11.2
350	30	8,319	-34.0	-45.4	25	13.0
300	30	9,377	-42.4	-48.8	25	16.4
250	30	10,585	-51.3		25	20.8
200	30	12,013	-57.4		25	22.0
175	30	12,855	-57.5		25	20.0
150	30	13,829	-57.4		25	16.6
125	30	14,979	-58.3		25	13.2
100	30	16,383	-59.2		25	9.1
80	30	17,777	-60.4		24	5.1
70	30	18,610	-60.1		25	2.5
60	30	19,573	-59.6		24	.9
50	30	20,718	-57.8		08	1.4
40	30	22,135	-55.2		08	2.7
30	30	23,986	-51.7		08	3.6
25	30	25,173	-50.3		08	3.1
20	30	26,638	-47.9		07	2.7
15	27	28,546	-44.4		05	1.2
10	7	31,308	-38.3			
7						

* TRUK, CAROLINE IS.
1010 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	2	28.3	24.5	06	3.6
1000	31	95	27.2	23.9	07	4.3
950	31	549	23.8	21.2	08	7.1
900	31	1,021	20.9	17.2	09	7.7
850	31	1,514	18.1	14.0	09	7.6
800	31	2,033	15.7	10.8	09	7.6
750	31	2,580	13.1	6.6	09	7.7
700	31	3,158	9.8	2.7	10	6.9
650	31	3,771	6.6	-.2	10	5.9
600	31	4,424	2.7	-3.5	10	5.4
550	31	5,124	-.9	-7.4	10	4.5
500	30	5,881	-4.9	-13.1	10	2.8
450	30	6,703	-9.5	-19.0	10	2.0
400	30	7,604	-15.0	-25.6	06	.7
350	30	8,604	-21.9	-32.5	32	.2
300	30	9,717	-30.2	-40.3	21	2.2
250	30	10,986	-40.8	-47.6	21	4.5
200	30	12,464	-53.4		24	5.9
175	30	13,310	-60.3		26	7.7
150	30	14,254	-67.8		27	9.2
125	30	15,331	-75.0		27	8.0
100	30	16,606	-79.8		30	3.0
80	30	17,876	-77.0		07	5.2
70	30	18,652	-72.6		09	8.3
60	30	19,568	-67.8		09	13.9
50	29	20,680	-62.8		09	19.3
40	29	22,071	-57.9		09	16.7
30	28	23,912	-51.5		09	5.6
25	28	25,102	-48.8		10	1.0
20	26	26,577	-46.0		26	2.5
15	24	28,503	-42.5		22	1.7
10	15	31,270	-38.7		17	3.1
7						

* TUCSON, AZ
921 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	789	14.1	-3.2	16	2.0
1000						
950						
900	31	988	18.7	-3.5	18	1.7
850	31	1,476	16.3	-5.6	26	1.3
800	31	1,988	12.4	-8.3	28	1.8
750	31	2,524	8.1	-10.8	25	3.1
700	31	3,039	3.9	-13.8	23	5.5
650	31	3,687	.0	-17.5	22	7.2
600	31	4,323	-4.4	-21.8	23	8.1
550	31	[illegible]	-9.1	-26.6	24	9.0
500	31	5,732	-14.0	-31.1	25	10.3
450	31	6,524	-19.7	-34.9	25	12.2
400	31	7,387	-26.3	-41.1	25	13.5
350	31	8,340	-33.8	-47.7	25	15.0
300	31	9,399	-42.3	-53.8	25	16.0
250	31	10,609	-50.6		26	19.7
200	31	12,042	-57.3		26	21.6
175	31	12,884	[illegible]		26	22.5
150	31	13,854	-58.6		26	20.8
125	30	14,994	-60.6		26	18.1
100	30	16,378	-62.1		26	14.3
80	29	17,754	-62.9		[illegible]	[illegible]
70	29	18,577	-62.3		[illegible]	[illegible]
60	29	19,531	-61.8		[illegible]	1.8
50	29	20,664	-59.9		[illegible]	2.2
40	29	22,067	-56.9		[illegible]	3.8
30	28	23,900	-53.7		[illegible]	2.7
25	28	[illegible]	-51.2		[illegible]	[illegible]
20	24	26,543	-47.6		[illegible]	[illegible]
15	[illegible]	28,446	-45.2		09	1.1
10	[illegible]	31,217	-39.5			
7						
5						

* VANDENBERG AFB, CA
1003 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	28	100	9.9	8.5	33	1.6
1000	24	131	9.6	8.1	33	2.0
950	28	553	11.5	2.6	35	4.8
900	28	1,008	14.5	-3.6	01	5.2
850	28	1,490	13.1	-5.9	36	4.7
800	28	1,997	10.5	-9.7	34	4.8
750	28	2,531	7.6	-13.5	33	5.2
700	28	3,096	4.7	-16.2	33	6.4
650	28	3,696	1.1	-19.1	33	7.0
600	28	4,335	-3.3	-21.5	32	7.1
550	28	5,016	-8.1	-25.1	32	7.5
500	28	5,749	-13.6	-30.4	31	8.0
450	28	6,541	-19.6	-35.9	31	8.8
400	28	7,404	-26.5	-41.4	31	11.0
350	28	8,357	-33.9	-47.3	31	12.8
300	28	9,415	-42.3		31	14.6
250	28	10,624	-51.5		31	14.9
200	27	12,041	-59.4		30	15.9
175	27	12,875	[illegible]		30	14.6
150	27	13,838	-59.9		29	13.0
125	26	14,970	-61.1		28	12.3
100	26	16,350	-62.5		28	10.4
80	25	17,729	-61.2		27	6.3
70	25	18,560	-60.8		27	3.4
60	24	19,518	-60.2		16	.0
50	24	20,659	-58.9		09	1.2
40	24	22,065	-57.3		09	2.5
30	24	23,898	[illegible]		08	3.5
25	24	25,074	-51.9		09	3.9
20	[illegible]	26,526	-49.2		07	2.4
15	20	28,423	-46.0		06	1.6
10	[illegible]	31,149	-40.8		27	.9
7	10	33,613	-35.8			
5	[illegible]	[illegible]	-32.5			

VICTORIA, TX
1007 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	33	21.2	19.9	09	1.6
1000	30	93	22.1	20.8	11	2.0
950	31	538	21.4	17.6	15	4.8
900	31	1,006	19.4	12.4	17	4.9
850	31	1,497	17.6	7.5	19	4.5
800	31	2,013	14.6	3.4	21	4.3
750	31	2,556	11.9	-3.2	24	4.3
700	31	3,130	8.4	-8.3	25	5.2
650	31	3,738	4.0	-11.8	26	6.3
600	31	4,383	-.7	-15.2	26	7.8
550	31	5,072	-5.7	-19.9	26	9.8
500	31	5,812	-10.9	-24.5	26	11.6
450	31	6,613	-16.3	-29.4	26	13.8
400	31	7,489	-22.3	-34.4	26	16.3
350	31	8,459	-29.5	-41.1	26	20.8
300	31	9,537	-37.9	-49.2	26	24.6
250	31	10,770	-46.8		26	29.9
200	31	12,214	-57.4		26	36.4
175	31	13,050	-61.1		26	35.6
150	30	14,000	-63.8		26	30.5
125	30	15,113	-65.6		26	22.5
100	30	16,460	-68.5		26	12.2
80	30	17,791	-69.5		24	3.0
70	30	18,593	-67.2		16	1.6
60	30	19,529	-64.0		10	2.3
50	30	20,659	-59.5		08	4.2
40	28	22,060	-56.7		08	4.2
30	27	23,900	-52.5		08	5.1
25	26	25,086	-49.6		09	5.2
20	26	26,559	-46.1		09	4.1
15	22	28,478	-43.5		08	3.3
10	10	31,193	-38.9			
7						
5						

* WAKE IS., PACIFIC AREA
1015 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	5	25.6	21.8	09	3.3
1000	31	132	25.0	21.0	09	4.0
950	31	581	21.4	19.0	10	4.9
900	31	1,049	18.5	14.5	10	5.0
850	31	1,539	15.7	11.2	10	4.9
800	31	2,052	13.4	7.4	09	5.0
750	31	2,594	11.1	2.0	09	4.8
700	31	3,168	8.6	-4.9	08	3.9
650	31	3,778	5.7	-9.7	07	3.4
600	31	4,428	2.0	-14.0	07	3.0
550	31	5,125	-2.3	-18.8	06	2.6
500	31	5,875	-6.9	-23.2	04	2.0
450	31	6,689	-12.3	-27.9	02	1.4
400	31	7,578	-18.5	-34.1	35	1.1
350	31	8,563	-25.8	-41.0	32	1.3
300	31	9,657	-34.6	-47.2	28	4.2
250	31	10,905	-44.6		27	5.9
200	31	12,360	-56.3		28	9.2
175	31	13,197	-62.3		28	10.4
150	30	14,133	-68.4		28	11.6
125	30	15,215	-72.7		29	8.2
100	30	16,517	-74.8		33	3.4
80	28	17,813	-73.5		04	3.5
70	27	18,603	-70.3		06	4.4
60	27	19,531	-65.7		08	7.0
50	27	20,649	-62.2		09	8.5
40	27	22,039	-59.1		09	10.7
30	26	23,859	-54.8		09	12.8
25	25	25,031	-52.5		09	13.2
20	24	26,490	-48.5		08	11.9
15	21	28,396	-44.2		09	11.4
10	15	31,135	-41.7		09	10.6
7	6	33,579	-36.3			
5						

* WALLOPS ISLAND, VA NASA
1015 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed (m.p.h.)
SFC	31	4	15.9	13.7	10	.3
1000	31	131	16.9	11.5	30	.8
950	31	569	16.3	9.2	31	1.2
900	31	1,027	13.8	6.0	31	2.2
850	31	1,507	11.3	3.0	30	3.2
800	31	2,012	8.0	-.5	30	4.4
750	31	2,543	5.7	-4.5	29	6.3
700	31	3,105	2.5	-8.2	29	6.9
650	31	3,700	-.7	-11.0	29	7.7
600	31	4,336	-4.3	-16.4	29	8.4
550	31	5,017	-8.2	-22.3	29	9.3
500	31	5,750	-13.1	-26.5	29	10.1
450	31	6,545	-18.4	-31.7	28	12.0
400	31	7,413	-24.5	-36.9	28	13.4
350	30	8,370	-31.8	-42.9	29	15.6
300	30	9,438	-40.2	-49.0	29	17.9
250	30	10,657	-49.6		29	20.4
200	30	12,088	-58.6		29	20.7
175	30	12,924	-60.8		29	18.3
150	30	13,881	-60.8		28	17.0
125	30	15,017	-60.5		29	14.4
100	30	16,403	-61.7		29	10.4
80	30	17,786	-61.5		31	6.7
70	30	18,615	-60.9		32	4.2
60	29	19,576	-60.2		35	2.5
50	29	20,720	-57.7		04	2.3
40	29	22,135	-55.9		07	2.8
30	29	23,980	-52.4		08	4.2
25	28	25,166	-50.4		08	3.8
20	27	26,633	-47.9		08	3.0
15	17	28,535	-44.9		07	1.5
10						
7						
5						

RAWINSONDE DATA

Average monthly values

[illegible] 1975

WASHINGTON DULLES INT, VA
1015 MB

		Dynamic [illegible]			Resultant Wind	
	N					Speed
SFC	31	85	14.2	12.3	31	.1
1000	29	136	14.8	12.2	23	.3
950	31	560	15.3	[illegible]	24	1.5
900	31	1,0[illegible]4	13.6	[illegible]	26	2.7
850	31	1,5[illegible]4	11.0	[illegible]	2[illegible]	3.2
800	31	2,[illegible]8	8.2	.5	2[illegible]	3.9
750	31	2,[illegible]	5.1	-3.3	29	4.9
700	31	3,[illegible]	1.8	-6.2	2[illegible]	6.2
650	31	3,693	-1.5	-10.7	28	7.3
600	31	4,3[illegible]	-5.1	-16.8	27	8.1
550	31	5,005	-9.1	-22.1	27	9.4
500	3[illegible]	5,[illegible]85	-13.8	-27.4	27	10.7
450	3[illegible]	6,[illegible]8	-19.0	-3[illegible].8	27	11.8
400	3[illegible]	7,[illegible]	-25.1	-37.5	27	13.4
350	3[illegible]	8,354	-32.[illegible]	-4[illegible].4	27	14.7
300	30	9,419	-40.8	-48.7	27	17.7
250	30	1[illegible],5[illegible]6	-50.0		2[illegible]	20.5
200	30	12,066	-57.9		2[illegible]	20.7
175	30	12,904	-59.9		2[illegible]	18.1
150	30	13,865	-59.9		2[illegible]	19.7
125	30	15,005	-59.7		2[illegible]	13.2
100	30	16,396	-61.1		2[illegible]	10.3
80	29	17,797	-60.9		30	4.5
70	2[illegible]	18,617	-6[illegible]		31	4.7
60	2[illegible]	19,579	-59.6		33	2.4
50	29	20,728	-57.2		3[illegible]	1.4
40	29	22,147	-55.2		04	2.0
30	28	23,996	-52.3		07	3.2
25	2[illegible]	25,[illegible]	-50.6		07	3.2
20	28	26,651	-48.0		09	3.7
15	2[illegible]	28,557	-44.8		08	2.5
10	19	31,312	-39.3		09	2.5

WAYCROSS, GA
[illegible] MB

					Wind	
					Direction	
SFC	31	44	19.1	18.1	19	.5
1000	31	122	21.[illegible]	18.3	21	1.[illegible]
950	31	568	21.3	13.9	21	2.7
900	31	1,035	18.4	11.6	22	2.2
850	31	1,523	15.2	8.2	2[illegible]	1.9
800	31	2,035	12.1	[illegible]	2[illegible]	1.8
750	31	2,573	[illegible]	-[illegible]	24	[illegible]
700	31	3,141	[illegible]	-7.2	20	4.6
650	31	3,743	[illegible]	-10.6	26	5.8
600	31	4,384	-1.6	-1[illegible]	27	7.5
550	31	5,072	-5.5	-20.9	2[illegible]	8.6
500	31	5,813	-10.5	-25.9	28	9.5
450	31	6,[illegible]	-[illegible]	-[illegible]	28	11.1
400	31	7,493	-22.2	-35.3	28	12.4
350	30	8,466	-29.2	-4[illegible]	28	12.[illegible]
300	30	9,547	-37.4	-48.4	2[illegible]	13.7
250	29	10,777	-47.0		28	1[illegible].5
200	28	12,218	-5[illegible]		[illegible]9	12.5
175	28	13,[illegible]34	-61.0		29	12.[illegible]
150	28	1[illegible]	-62.5		[illegible]	1[illegible].3
125	28	[illegible]	-64.7		28	10.7
100	28	[illegible]	-66.4		29	[illegible]
80	28	17,833	[illegible]		29	4.[illegible]
70	28	1[illegible]	-65.5		3[illegible]	1.7
60	2[illegible]	[illegible]	-63.1		03	[illegible]
50	26	20,722	-59.1		07	4.3
40	25	22,134	-55.9		08	4.4
30	25	23,983	-51.4		[illegible]	4.8
25	24	25,173	-49.6		09	4.2
20	21	26,643	-46.4		1[illegible]	4.5
15	17	28,568	-43.4		[illegible]	3.2
10	1[illegible]	31,306	-38.6			

[illegible]
[illegible] MB

SFC	31	1,312	5.3	-5.7	[illegible]2	.4
1000						
950						
900						
850	31	1,479	[illegible]	-3.9	35	1.2
800	31	1,980	6.9	-6.1	33	2.6
750	31	2,507	3.2	-9.1	32	3.8
700	31	3,062	-.7	-11.8	3[illegible]	5.3
650	31	3,[illegible]	-4.4	-15.3	30	6.7
600	31	4,276	-8.4	-19.9	3[illegible]	7.5
550	31	4,945	-1[illegible]	-[illegible]	3[illegible]	[illegible]
500	31	5,665	-17.9	-[illegible]	3[illegible]	[illegible]
450	31	6,444	-[illegible]	-[illegible]	30	11.0
400	31	7,294	-30.2	-39.3	30	12.1
350	31	8,234	-36.9	-44.1	30	12.6
300	31	9,[illegible]	-44.4		31	1[illegible]
250	31	10,484	-51.6		31	15.9
200	31	11,911	-57.7		31	16.9
175	29	12,745	-57.6		30	14.6
150	29	13,720	-57.1		30	12.5
125	29	14,[illegible]3	-5[illegible]		2[illegible]	8.6
100	2[illegible]	16,[illegible]	-58.7		2[illegible]	5.8
80	2[illegible]	17,682	-5[illegible]		27	3.0
70	2[illegible]	18,524	-57.9		27	1.7
60	2[illegible]	[illegible]	-58.0		30	.7
50	28	[illegible]	-58.0		06	1.3
40	27	[illegible]	-56.3		07	1.9
30	2[illegible]	23,893	-54.1		07	2.5
25	25	25,064	-52.3		07	2.5
20	22	26,518	-49.7		[illegible]4	1.9
15	20	28,431	-46.2		[illegible]	1.8
10	10	31,141	-41.5			

[illegible], AZ
[illegible]

				Po[illegible]		
SFC	31	1,[illegible]	[illegible]	-[illegible]	[illegible]	1.7
1000						
950						
900						
850	17	1,505	[illegible]	-[illegible]	19	1.1
800	31	1,[illegible]	1[illegible]	-5.1	24	2.3
750	31	2,[illegible]	7.1	-[illegible]	[illegible]	3.1
700	31	3,[illegible]	2.5	-[illegible]	[illegible]	4.4
650	31	3,[illegible]	-[illegible]	-14.7	[illegible]	5.4
600	31	4,308	-6.6	-19.6	25	7.[illegible]
550	31	4,[illegible]2	-1[illegible]	-25.1	2[illegible]	8.5
500	31	5,[illegible]7	-1[illegible]	-31.5	26	8.8
450	31	6,491	-21.6	-3[illegible]	26	10.8
400	31	7,348	-28.4	-41.7	26	11.5
350	3[illegible]	[illegible]	-3[illegible]	-4[illegible]	26	14.6
300	29	9,348	-43.6		27	14.2
250	28	10,559	-51.9		[illegible]	15.5
200	2[illegible]	1[illegible]	-5[illegible]		[illegible]	17.0
175	28	12,826	-58.0		[illegible]	15.3
150	2[illegible]	13,[illegible]	-5[illegible]		[illegible]	14.1
125	28	14,962	-59.6		26	13.4
100	27	16,335	-60.2		26	10.6
80	27	17,725	-61.1		26	5.9
70	27	18,555	-60.8		24	2.5
60	2[illegible]	1[illegible]	-6[illegible]		[illegible]	.8
50	2[illegible]	[illegible]54	-5[illegible]		06	1.4
40	22	22,054	-57.0		08	[illegible]
30	20	23,896	-53.3		08	3.7
25	20	25,076	-51.5		08	3.2
20	18	26,527	-48.9		09	2.7
15	17	28,438	-45.4		1[illegible]	1.5
10	[illegible]	31,146	-39.[illegible]			

[illegible]
1013 [illegible]

				Po[illegible]	Wind	
SFC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
950	30	534	[illegible]	-[illegible]	13	[illegible]
900	[illegible]	[illegible]	[illegible]	-3.2	[illegible]	[illegible]
850	[illegible]	[illegible]	[illegible]	-[illegible]	[illegible]	[illegible]
800	[illegible]	[illegible]	[illegible]	-[illegible]	[illegible]	[illegible]
750	30	2,413	-[illegible]	-[illegible]	[illegible]	[illegible]
700	[illegible]	[illegible]	-10.9	-[illegible]	[illegible]	[illegible]
650	30	3,513	-[illegible]	-[illegible]	16	[illegible]
600	30	4,110	-17.[illegible]	-2[illegible]	16	[illegible]
550	30	4,76[illegible]	-[illegible]	-2[illegible]	16	[illegible]
500	[illegible]	[illegible]	-[illegible]	-3[illegible]	16	[illegible]
450	[illegible]	[illegible]	-31.5	-38.9	[illegible]	[illegible]
400	30	7,037	-37.4	-42.3	17	[illegible]
350	[illegible]	[illegible]	-[illegible]	-4[illegible]	[illegible]	[illegible]
300	[illegible]	[illegible]	-49.5		18	[illegible]
250	[illegible]	[illegible]	-[illegible]		[illegible]	[illegible]
200	30	11,617	-48.7		[illegible]	[illegible]
175	[illegible]	[illegible]	-48.1		[illegible]	[illegible]
150	30	13,513	-48.1		[illegible]	[illegible]
125	30	14,713	-4[illegible]		20	[illegible]
100	30	16,176	-49.8		[illegible]	[illegible]
80	[illegible]	[illegible]	-50.5		[illegible]	[illegible]
70	[illegible]	[illegible]	-[illegible]		[illegible]	[illegible]
60	30	19,505	-51.5		[illegible]	[illegible]
50	30	20,690	-51.1		[illegible]	[illegible]
40	[illegible]	[illegible]	-51.0		12	[illegible]
30	[illegible]	[illegible]	-[illegible]		[illegible]	[illegible]
25	2[illegible]	[illegible]	-4[illegible]		09	[illegible]
20	29	26,67[illegible]	-48.5		[illegible]	[illegible]
15	24	[illegible]	-4[illegible]		09	[illegible]
10	[illegible]	31,405	-38.5			

YAP, CAROLINE IS.
1008 MB

SFC	31	1[illegible]	28.7	24.2	09	4.[illegible]
1000	31	88	27.3	23.2	09	4.[illegible]
950	31	541	23.5	20.8	09	[illegible].4
900	31	1,013	20.7	17.2	09	[illegible]
850	31	1,506	18.1	13.0	09	5.6
800	31	2,025	15.7	[illegible].8	09	5.2
750	31	2,571	12.8	6.2	1[illegible]	4.7
700	31	3,148	9.9	1.4	09	4.8
650	31	3,[illegible]1	6.6	-2.4	09	4.9
600	31	4,415	3.0	-6.5	09	4.1
550	31	5,115	-.8	-10.8	09	3.9
500	31	5,[illegible]1	-5.2	-15.7	09	3.[illegible]
450	31	6,692	-9.8	-20.9	09	3.[illegible]
400	31	7,591	-15.5	-2[illegible].3	[illegible]	1.[illegible]
350	31	8,5[illegible]9	-22.4	-35.0	10	.4
300	31	9,699	-30.9	-42.7	26	1.4
250	31	10,966	-41.2		24	3.[illegible]
200	31	12,441	-53.7		2[illegible]	[illegible].1
175	31	13,286	-6[illegible].5		27	7.[illegible]
150	31	14,229	-67.9		2[illegible]	[illegible]
125	31	15,307	-74.8		34	2.[illegible]
100	31	16,583	-79.9		06	[illegible].4
80	30	17,845	-79.1		07	1[illegible].1
70	30	18,616	-72.7		[illegible]	11.[illegible]
60	30	19,534	-67.1		[illegible]	1[illegible].1
50	[illegible]	20,650	-62.2		09	1[illegible].7
40	2[illegible]	22,042	-58.2		09	17.1
30	28	23,877	-53.0		09	[illegible].9
25	27	25,063	-49.5		[illegible]9	[illegible]
20	2[illegible]	26,535	-46.4		10	3.[illegible]
15	2[illegible]	28,471	-42.1		13	4.[illegible]
10	17	31,229	-38.7			

YUCCA FLAT, NV
878 MB

SFC	31	1,198	[illegible].2	-4.2	3[illegible]	.7
1000						
950						
900						
850	31	1,459	13.7	-3.3	34	2.0
800	31	1,977	[illegible].7	-5.2	32	1.2
750	31	2,511	6.8	-7.6	31	2.0
700	31	3,073	2.4	-10.6	31	2.3
650	31	3,668	-2.0	-13.5	31	2.9
600	31	4,298	-6.6	-17.9	31	4.1
550	31	4,972	-11.2	-23.[illegible]	[illegible]	5.3
500	31	5,697	-16.3	-28.7	31	6.9
450	31	6,481	-21.7	-34.[illegible]	31	8.7
400	31	7,337	-28.4	-40.4	31	10.8
350	31	8,284	-35.4	-45.5	3[illegible]	11.5
300	31	9,338	-43.0	-50.9	3[illegible]	12.9
250	31	10,544	-51.1		31	14.6
200	31	11,972	-57.6		3[illegible]	15.2
175	31	12,813	-58.3		29	15.1
150	31	13,78[illegible]	-57.4		29	12.5
125	31	14,935	-58.9		2[illegible]	10.3
100	31	16,330	-5[illegible].4		27	7.5
80	31	17,724	-59.4		26	4.8
70	31	18,561	-59.2		27	2.6
60	31	19,527	-59.3		24	.6
50	3[illegible]	[illegible]71	-5[illegible].4		07	1.0
40	30	22,073	-57.7		08	2.5
30	[illegible]	23,[illegible]	-54.6		07	3.0
25	29	25,[illegible]	-52.8		[illegible]	2.8
20	29	26,526	-50.5		08	2.9
15	25	28,405	-47.4		06	1.1
10	12	31,117	-43.6			

SOLAR RADIATION INTENSITIES

Tabulated in langleys per minute on a surface normal to the direction of the sun.

MAY 1975

ALBUQUERQUE, N. MEX.

	Sun's zenith distance								
Date	A M				*	P M			
	78.7°	75.7°	70.7°	60.0°		60.0°	70.7°	75.7°	78.7°
	Air mass								
	4.19	3.35	2.51	1.67	*	1.67	2.51	3.35	4.19
1-----	.59	.70	.90	1.11	1.28	----	----	----	----
2-----	.45	.56	.77	.60	1.26	----	.83	.65	.54
3-----	.67	.76	.93	1.10	1.30	----	----	----	----
4-----	.50	.62	.83	1.07	1.31	----	(.79)	(.58)	----
5-----	.65	.78	.92	1.11	----	.81	.54	.43	.32
6-----	.86	.98	1.09	1.22	1.34	1.15	.93	.75	.64
7-----	.81	.95	1.07	1.24	1.42	1.18	.97	.82	.71
8-----	.76	.88	1.04	1.20	1.37	1.08	.79	.61	----
9-----	.67	.83	.95	1.13	----	1.14	.90	.75	.60
10----	----	----	----	(1.15)	(1.37)	1.11	.93	.79	.65
11----	.67	.80	.95	1.13	1.36	1.07	.87	.74	.59
12----	.53	.74	.91	1.10	(1.35)	----	(.64)	(.45)	(.27)
13----	.68	.82	.95	1.11	1.40	1.13	1.02	.89	.80
14----	.86	.96	1.07	1.21	1.40	1.16	.99	.88	.77
15----	----	----	.99	1.15	1.36	----	----	----	----
16----	.74	.87	.99	1.17	----	----	----	----	----
18----	----	----	----	----	1.40	1.15	1.00	.89	.76
19----	.67	.79	----	1.05	----	----	----	----	----
20----	.74	----	.98	1.17	1.34	1.05	.84	.68	.59
21----	.78	.89	1.01	1.17	1.34	----	----	----	----
22----	.66	.76	.90	----	----	.99	.85	.67	.59
23----	.78	.89	.97	1.15	1.35	1.08	----	.79	.71
24----	.69	.81	.94	1.12	1.37	1.03	.85	.69	.63
25----	.79	.86	.95	1.15	1.35	.79	.58	.47	.11
26----	.65	.74	(.89)	1.07	1.31	1.27	----	----	.67
27----	.67	----	----	----	1.30	----	----	----	----
30----	----	----	----	----	----	1.10	.93	(.80)	.67
31----	.81	.88	1.02	1.13	1.36	(.98)	----	----	----
Averages	.70	.81	.96	1.12	1.35	1.08	.86	.72	.63

MADISON, WIS.

	Air mass								
	4.69	3.75	2.81	1.88	*	1.88	2.81	3.75	4.69
1-----	M .53	S .75	S .90	S 1.07	----	----	----	----	----
4-----	----	----	----	----	----	S 1.07	S .84	S .71	S .62
10----	M .56	M .70	S .85	M 1.15	----	----	----	----	----
13----	S .67	S .79	S .95	M 1.10	----	----	----	----	----
16----	S .66	S .75	S .87	S 1.00	----	S 1.02	S .82	S .69	S .58
17----	S .52	S .63	M .83	M .97	----	M .94	M .77	M .63	M .53
18----	M .48	M .58	M .73	M .93	S 1.13	----	----	----	----
20----	I .35	I .47	----	----	----	----	----	----	----
22----	----	----	----	----	S 1.20	----	----	----	----
27----	M .75	S .84	S .97	S 1.14	S 1.34	----	----	----	----
Averages	.56	.69	.87	1.05	1.22	1.01	.81	.68	.58

OMAHA, NEBR.

	Air mass								
	4.78	3.82	2.87	1.91	*	1.91	2.87	3.82	4.78
1-----	HM .72	HS .84	HS .96	HS1.10	----	----	----	----	----
3-----	----	(.51)	HM .42	HS .94	----	----	----	----	----
4-----	----	HM(.61)	HM .79	HM1.04	HM1.08	HM1.02	HM .79	HM .62	HM .48
5-----	HS .54	HS .64	HS .79	HS .95	HM1.18	----	----	HM .55	HM .41
12----	----	HM .69	HM .81	HM1.03	----	----	----	----	----
14----	.64	.74	.87	1.09	1.26	1.05	.62	.42	.33
15----	.73	.83	.97	1.11	1.42	1.10	.80	.62	.52
16----	.61	.81	.95	1.09	1.21	1.10	.90	.75	.60
19----	----	----	----	----	----	.95	.76	.60	.46
20----	.41	.56	----	----	----	----	----	----	----
21----	----	.47	.64	.82	----	HM1.03	HM .67	HM .50	HM .43
22----	----	----	----	.78	----	----	----	----	----
24----	.50	.78	HM .60	1.02	----	----	----	----	----
25----	HM .32	HM .39	HM .45	----	----	----	----	----	----
26----	----	----	----	----	1.30	1.08	.93	HS .80	HS .72
27----	.71	.81	.91	1.10	----	----	----	----	----
Averages	.58	.68	.77	1.01	1.22	1.04	.78	.61	.49

BLUE HILL, MASS.

	Sun's zenith distance								
Date	A M				*	P M			
	78.7°	75.7°	70.7°	60.0°		60.0°	70.7°	75.7°	78.7°
	Air mass								
	4.89	3.92	2.94	1.96	*	1.96	2.94	3.92	4.89
	NO DATA RECEIVED								

MAUNA LOA OBSERVATORY, HAWAII

	Air mass								
	3.36	2.69	2.91	1.34	*	1.34	2.01	2.69	3.36
1-----	----	----	----	----	----	1.44	1.32	----	----
3-----	----	----	----	----	1.59	1.37	1.25	1.14	1.04
4-----	1.12	1.20	----	1.42	----	1.36	1.24	1.14	1.04
5-----	----	----	----	----	----	1.40	1.26	1.18	1.09
6-----	1.13	1.21	1.30	1.43	----	----	----	1.16	----
7-----	1.14	1.22	1.32	----	----	----	----	----	----
8-----	1.09	1.19	1.28	1.40	1.54	----	1.21	1.09	----
9-----	----	----	----	1.39	----	1.35	1.20	1.11	1.02
10----	1.11	1.20	1.31	1.43	1.57	1.39	----	----	----
11----	----	----	1.29	1.43	----	1.36	1.25	1.14	1.06
13----	1.10	1.21	1.30	1.43	----	1.36	----	----	----
15----	1.07	1.17	1.27	1.39	1.58	----	1.24	1.12	1.00
16----	----	----	----	1.44	----	----	----	----	----
19----	----	----	1.27	1.38	1.60	1.40	1.25	1.13	1.06
20----	1.13	1.22	1.32	1.43	1.55	1.36	1.23	1.12	1.03
21----	1.12	1.21	1.29	1.42	1.57	1.38	1.27	1.15	1.07
22----	1.06	1.15	1.27	1.39	1.55	1.38	1.25	1.13	1.04
23----	1.12	1.19	1.29	1.41	1.56	----	----	1.10	1.02
24----	1.05	1.14	1.24	1.37	----	----	----	----	----
25----	1.08	1.15	----	----	1.53	----	1.24	1.12	1.06
26----	1.09	1.16	1.26	1.38	1.54	1.38	1.26	1.16	1.07
27----	1.10	1.17	1.27	1.39	1.55	1.38	1.26	1.17	1.09
29----	1.11	1.19	1.29	1.41	1.50	1.34	1.23	1.14	1.05
30----	1.14	1.21	1.31	1.42	----	----	1.22	1.13	1.05
31----	1.13	1.21	1.30	1.42	1.55	1.39	1.29	1.19	1.12
Averages	1.11	1.19	1.29	1.41	1.56	1.38	1.25	1.14	1.05

TUCSON, ARIZ.

	Air mass								
	4.64	3.71	2.78	1.86	*	1.86	2.78	3.71	4.64
1-----	.73	.83	.96	1.12	1.36	1.11	.89	.79	.72
2-----	.67	.78	.91	1.11	1.36	1.11	.90	.72	.62
3-----	.69	.78	.93	1.13	1.37	1.11	.92	.78	.68
4-----	.74	.85	.97	1.14	1.43	1.14	.91	.78	.68
5-----	.57	.65	.78	1.00	1.39	1.13	.96	.82	.71
6-----	.56	.68	.84	1.05	1.32	1.03	.77	.60	.49
7-----	.74	.86	1.00	1.17	1.41	1.10	.89	.71	.58
8-----	.59	.72	.88	1.10	1.34	1.12	.91	.79	.66
9-----	.73	.84	1.00	1.18	1.42	----	----	.78	.63
10----	----	----	----	----	1.40	1.09	.91	.79	.67
11----	.74	.85	1.00	1.18	1.41	1.16	.97	.84	.74
12----	.69	.82	.95	1.15	1.37	1.17	.88	.73	.61
13----	.60	.73	.90	1.11	1.35	1.11	.95	.81	.69
14----	.71	.85	.96	1.16	----	1.12	.91	.77	.67
15----	.59	.70	.84	1.04	1.30	----	----	----	----
17----	----	.75	----	1.07	1.37	----	----	----	----
18----	.68	.71	.88	1.05	----	1.02	.80	.62	.54
19----	.58	.70	.83	1.02	1.31	1.08	----	.78	.66
20----	.81	.90	1.05	1.20	D 1.27	D .92	D .78	D .71	D .60
21----	.79	.87	1.00	1.18	1.39	----	----	----	----
22----	.69	.80	.95	1.13	1.45	1.18	----	.85	.75
23----	----	----	.95	1.10	1.40	1.16	.97	.85	.73
24----	.73	.85	.99	1.17	1.41	1.15	1.00	.83	.69
25----	.76	.86	1.00	1.18	1.44	1.15	.98	.83	.73
26----	.76	.87	1.02	1.18	1.43	1.16	1.04	.91	.78
27----	.72	.81	1.00	1.16	1.37	1.26	1.06	.90	.78
28----	.63	.75	.88	1.07	1.34	1.09	.93	.75	.64
29----	.73	.83	.99	1.15	----	1.10	.91	.75	.66
30----	.78	.88	.99	1.15	1.42	1.16	.97	.84	.75
31----	.84	.94	1.07	1.24	1.45	1.23	1.07	.96	.84
Averages	.70	.80	.95	1.13	1.34	1.12	.93	.79	.68

NET RADIATION

Net radiation in langleys per day (8 a.m. to 8 a.m.) at Palmer, Alaska

MAY 1975

Date.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Avg.
Langleys. . .	105	168	225	101	174	154	146	111	168	106	154	158	86	161	231	166	105	92	249	226	222	132	69	228	177	46	147	179	164	187	195	156

SOLAR ULTRA-VIOLET RADIATION DATA

Daily totals and monthly average (< 3900 A.) at Ames, Iowa

Date.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Avg.
Langleys. . .																																

NO DATA AVAILABLE

TOTAL OZONE DATA

These provisional ozone data are obtained from measurements made with a Dobson ozone spectrophotometer, and are applicable approximately to local apparent noon. The data are presented in the code as prescribed in the August 1962 WMO circular entitled PUBLICATION OF DATA FOR METEOROLOGICAL RESEARCH, WORLD OZONE DATA.

Units: Milli-atm-cms.

Station	Day of month																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	[illegible]

NO DATA RECEIVED

REFERENCE NOTES

[illegible] EXTREMES OF TEMPERATURE AND PRECIPITATION -- [illegible]: Dates in the table apply to the period 24 hours prior to time of observation. In some cases the actual occurrence is on the calendar date preceding that shown. See individual climatological data for times of observations.

- + And also on an earlier date or dates.
- D Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch of water equivalent to every 10 inches of snowfall.

CLIMATOLOGICAL DATA - METRIC UNITS: Data from airport unless otherwise specified.

Precipitation data in column headed "Greatest in 24 hours" are computed on a 24-hour basis without regard to calendar day - data may include precipitation with a measurable amount from the last day of the previous month or the first day of the following month.

Wind directions under resultant direction are in tens of degrees.

Value entered in column "Fastest Mile" is the highest observed 1-minute wind speed when the direction is in tens of degrees. These stations are not equipped with a recording anemometer from which "Fastest Mile data can be evaluated.

- B Number of days maximum 21.1°C. or above for Alaskan Stations.
- Y Peak Gust.
- + And also on an earlier date or dates.
- U Indicates Urban site.
- R Indicates Rural site.
- 0 Station pressures apply to elevations shown in the "Elevations" table of the annual issue of this publication.

Conversion formulae to English Units are as follows:

1 foot = 0.3048 meters
°F = 9/5 °C + 32
1 inch = 25.4 millimeters
1 mile per hour = 0.447 meters per second

HEATING DEGREE DAYS: Data from airport unless otherwise specified.

- U Indicates Urban site.
- R Indicates Rural site.

COOLING DEGREE DAYS: Data from airport unless otherwise specified.

- U Indicates Urban site.
- R Indicates Rural site.

STORM SUMMARY:

- ° Includes crop damage.
- C Crop damage.
- * No occurrence of storms or unusual weather phenomena reported.
- @ Includes heavy sleet storm.
- # Freezing drizzle and freezing rain, commonly known as glaze.
- 0 For breakdown of "All Others," and for detailed listing of other storms, see the Environmental Data Service, NOAA, monthly publication STORM DATA.
- ‡ No Storm Data Report received for this State.
- <> Report Incomplete.
- † Storm damages are placed in categories varying from 1 to 9 as follows:

1	Less than $50
2	$50 to $500
3	$500 to $5,000
4	$5,000 to $50,000
5	$50,000 to $500,000
6	$500,000 to $5 Million
7	$5 Million to $50 Million
8	$50 Million to $500 Million
9	$500 Million to $5 Billion.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS:

- 1/ Flooding continued at the end of the month.
- NA Not available.

FLOOD STAGE DATA:

- # Highest Stage Observed
- 1/ Continued at end of month
- ___ Highest Stage of Record
- E Estimated
- P Provisional (Flood Stage)
- U Unknown

RAWINSONDE DATA (Average Monthly Values):

All observations scheduled at 1200, G.C.T. Pressures shown under station names are the average monthly station pressures for the month of record, corrected to the height of the floors of the instrument shelters used for rawinsonde purposes. "Number of observations" refers to those of dynamic height only. Although the number of temperature observations at any given pressure surface is usually the same as for height, it is possible for temperature to be missing for one or more pressure surfaces of some observations. Dew Point averages are limited to those observations with temperatures warmer than -40°C. Observations of wind speed and direction are sometimes lost due to limiting angles, i.e., elevation angles less than 6° above the horizon, or any obstruction above the horizon. The temperature and wind values are based on 15 or more observations at the surface or 5 observations at a standard pressure level for temperature and 10 for wind. Dew Point data are not published for standard pressure surfaces for which less than 5 observations are available. Dew Point data are computed and expressed on the basis of vapor pressure over water. Unless otherwise indicated, they are obtained from carbon hygristors. These average values for standard pressure surfaces were obtained by rawinsondes; dynamic height (geopotential) in units of .98 dynamic meter, temperature and dew point in degrees Celsius, and resultant winds in tens of degrees and meters per second.

- * Rawinsondes at this station were equipped with hypsometers to permit more accurate evaluations of pressure, and consequently height, at pressures lower than 50 mb. These rawinsondes were carried aloft by special high altitude balloons, in an effort to consistently reach higher altitudes.
  Observations for these stations are scheduled at 0000 G.C.T.
- · Dew Point temperatures are based on a minimum of 5 observations. Therefore, due to the lesser number of Dew Point observations at the higher levels comparison with dry-bulb temperatures should be made with care. Dew Point temperatures replaced Relative Humidity January 1967.

SOLAR RADIATION INTENSITIES: Langley is the unit used to denote one gram calorie per square centimeter. An explanation of the formula used in computing the air mass values for each station appears in the February 1957 issue, Vol. 8, No. 2, page 63, of this publication.

()	Clouds Present	DM	Moderate Dust	HM	Moderate Haze	FS	Slight Smoke
*	Values corresponding to true solar noon	DS	Slight Dust	HS	Slight Haze	M	Moderate Haze-indeterminable
BD	Blowing Dust	F	Fog	I	Intense Haze-indeterminable		
BN	Blowing Sand	GF	Ground Fog	K	Smoke	N	Sand
D	Dust	H	Haze	KI	Intense Smoke	S	Slight Haze-indeterminable
DI	Intense Dust	HI	Intense Haze	KM	Moderate Smoke		

NET RADIATION: The measurement is made with a CSIRO FUNK net exchange radiometer over a plot of sod. The value represents the total incoming minus the total outgoing radiation of all wave lengths.

These data are of an experimental nature and are published as received from the Palmer Exp. Station. The instrument with which they were measured has not been checked by the NOAA, National Weather Service.

SOLAR ULTRA-VIOLET RADIATION DATA: These data are from an U-V Eppley total ultra violet sensor and Speedomax H (Leeds Northrup) Recorder. This instrument has not been checked by the NOAA, National Weather Service.

TOTAL OZONE DATA: The spectrophotometer measures the total amount of ozone in the atmosphere, i.e., the amount contained in a vertical column of air extending from ground level to the top of the atmosphere in the vicinity of the station. The amount of ozone in this column (coded $\Omega\ \Omega\ \Omega$) is expressed in terms of a thickness of a layer it would occupy at standard temperature and pressure, e.g., 350 milli-atmo-cm ozone implies an ozone layer 0.350 centimeter thick. The code λs designates the type of measurement made.

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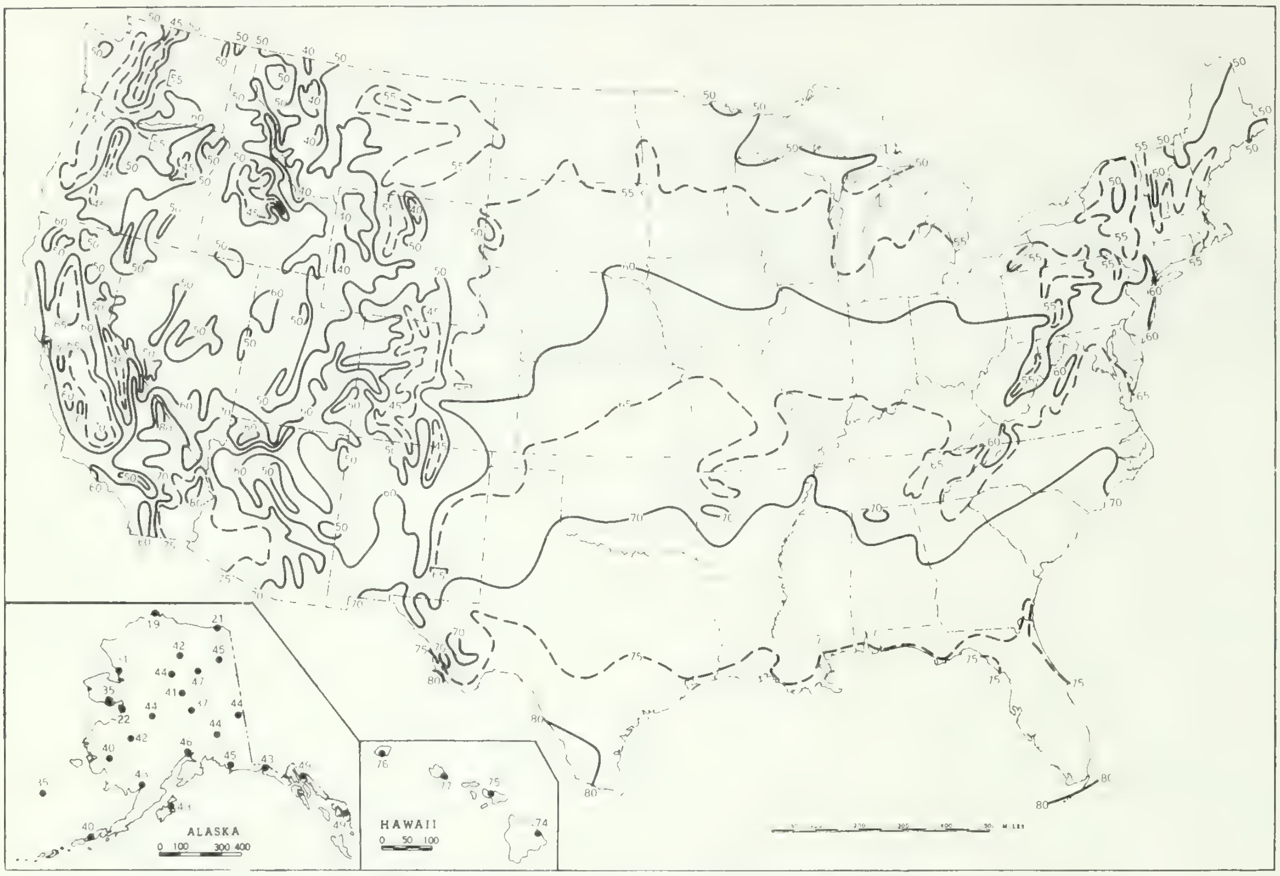
Chart 1. A. Normal Daily Average Temperature (°F. 1941-70), May.


ALASKA
0 100 300 400
HAWAII
0 50 100
MILES

B. Temperature Departure from 30 - Year Mean (F 1941-70), May 1975

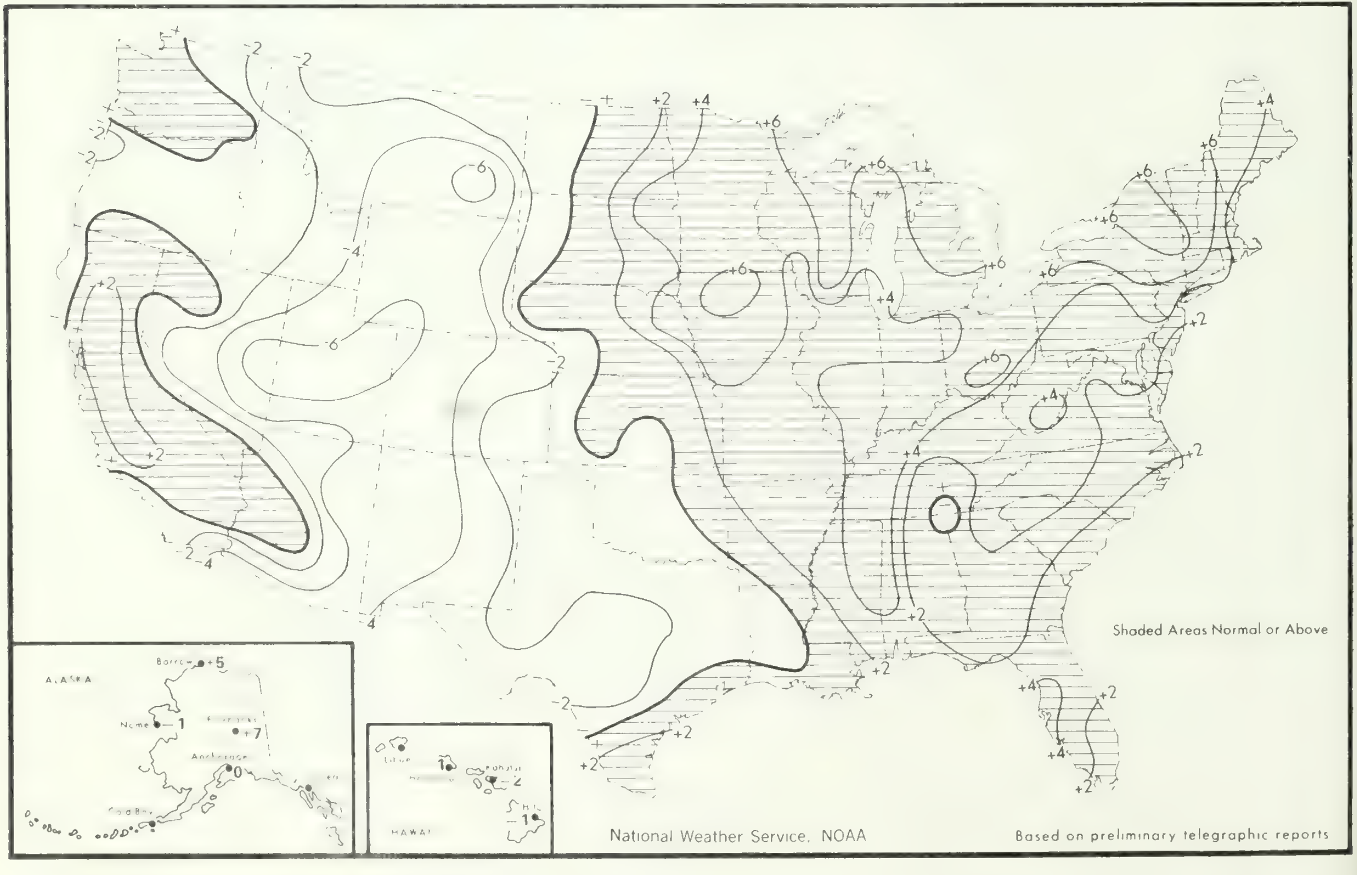
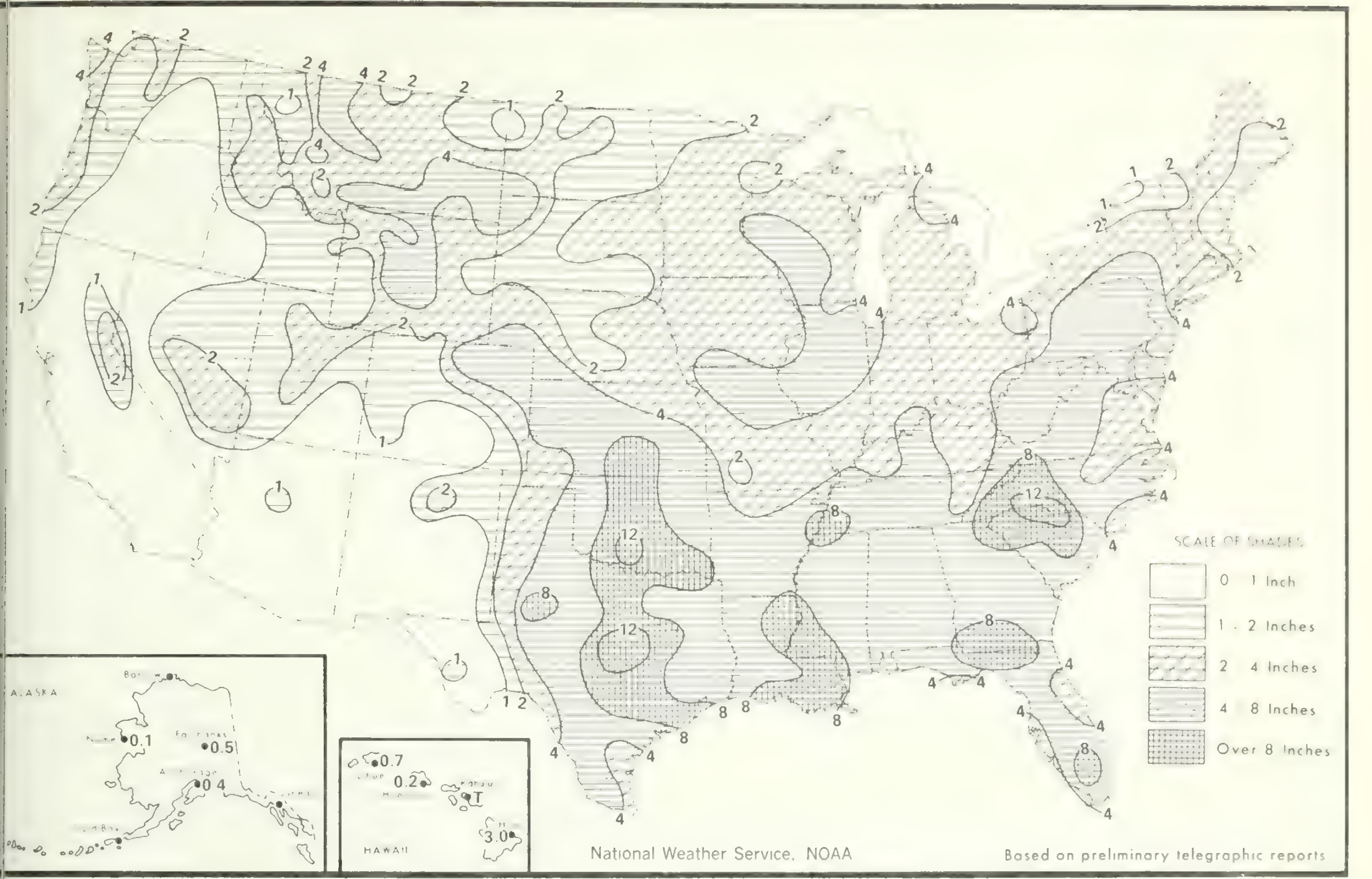

ALASKA
Barrow +5
Nome -1
Fairbanks +7
Anchorage 0
Cold Bay
Lihue 1
Honolulu -2
Hilo 1
HAWAII
Shaded Areas Normal or Above
National Weather Service, NOAA
Based on preliminary telegraphic reports

Chart II. A. Total Precipitation (Inches), May 1975


SCALE OF SHADES
0 - 1 Inch
1 - 2 Inches
2 - 4 Inches
4 - 8 Inches
Over 8 Inches
ALASKA
0.1
0.5
0.4
HAWAII
0.7
0.2
T
3.0
12
8
4
2
1

National Weather Service, NOAA

Based on preliminary telegraphic reports

B. Percentage of Normal Precipitation, May 1975

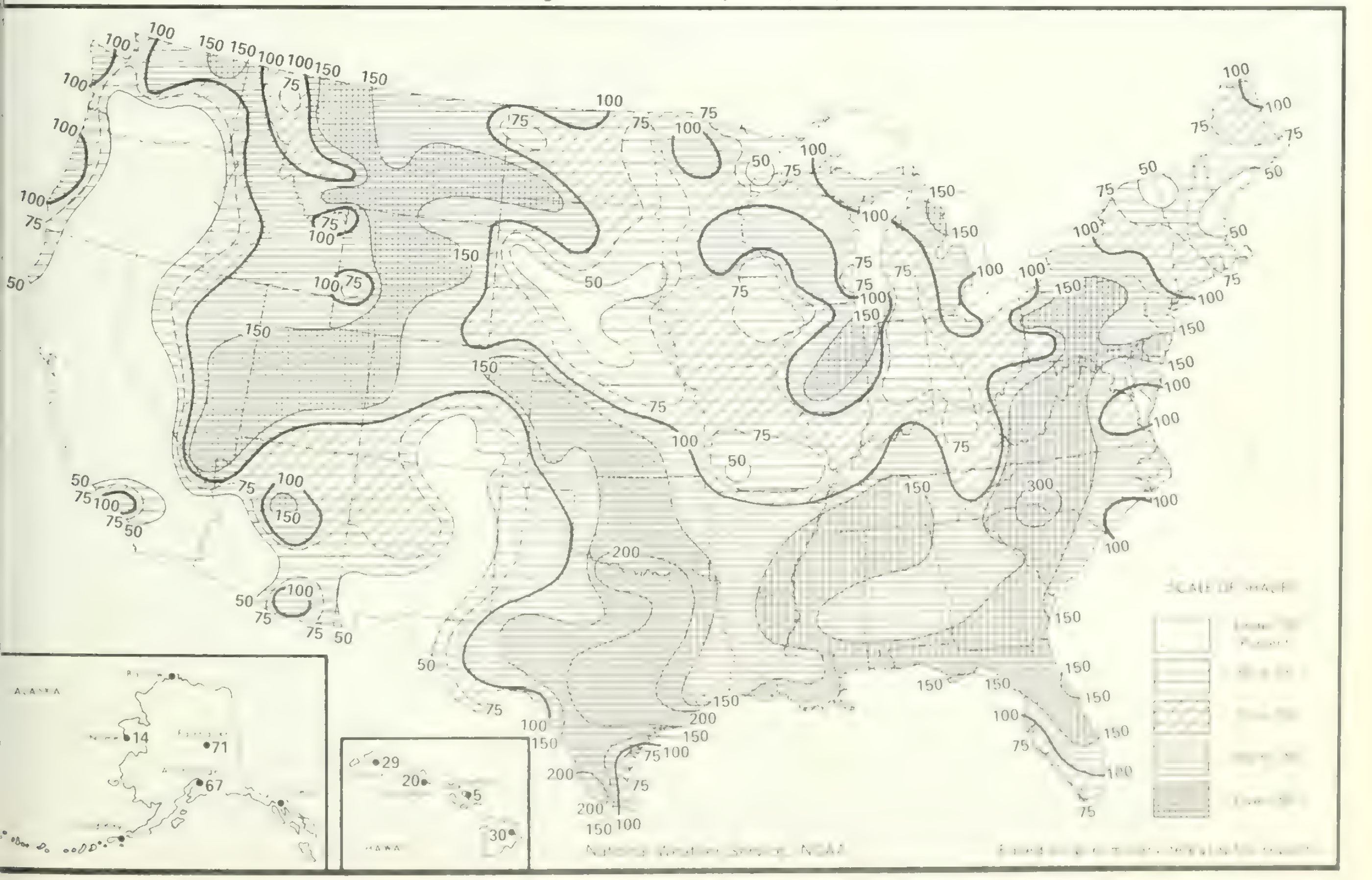
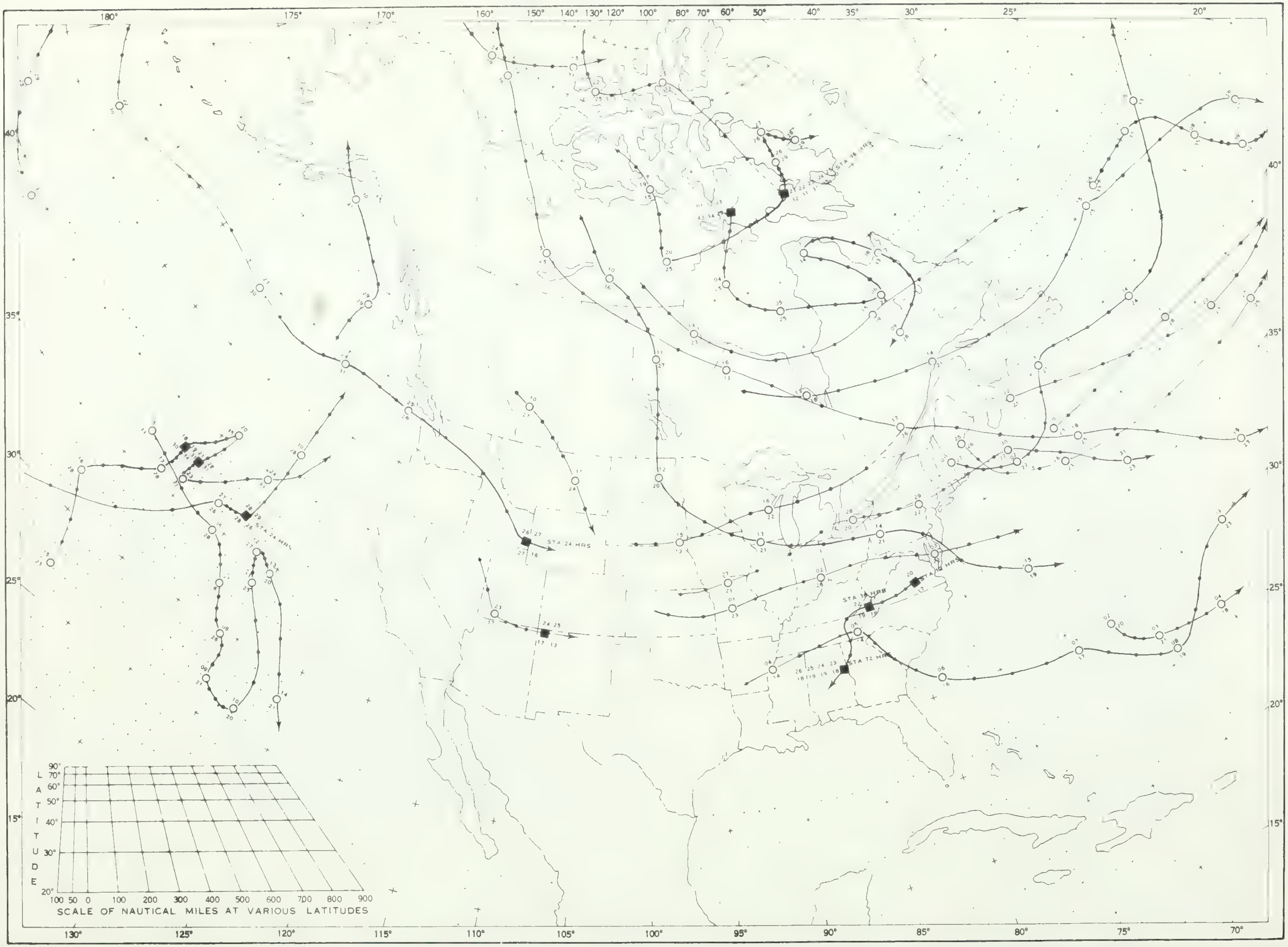
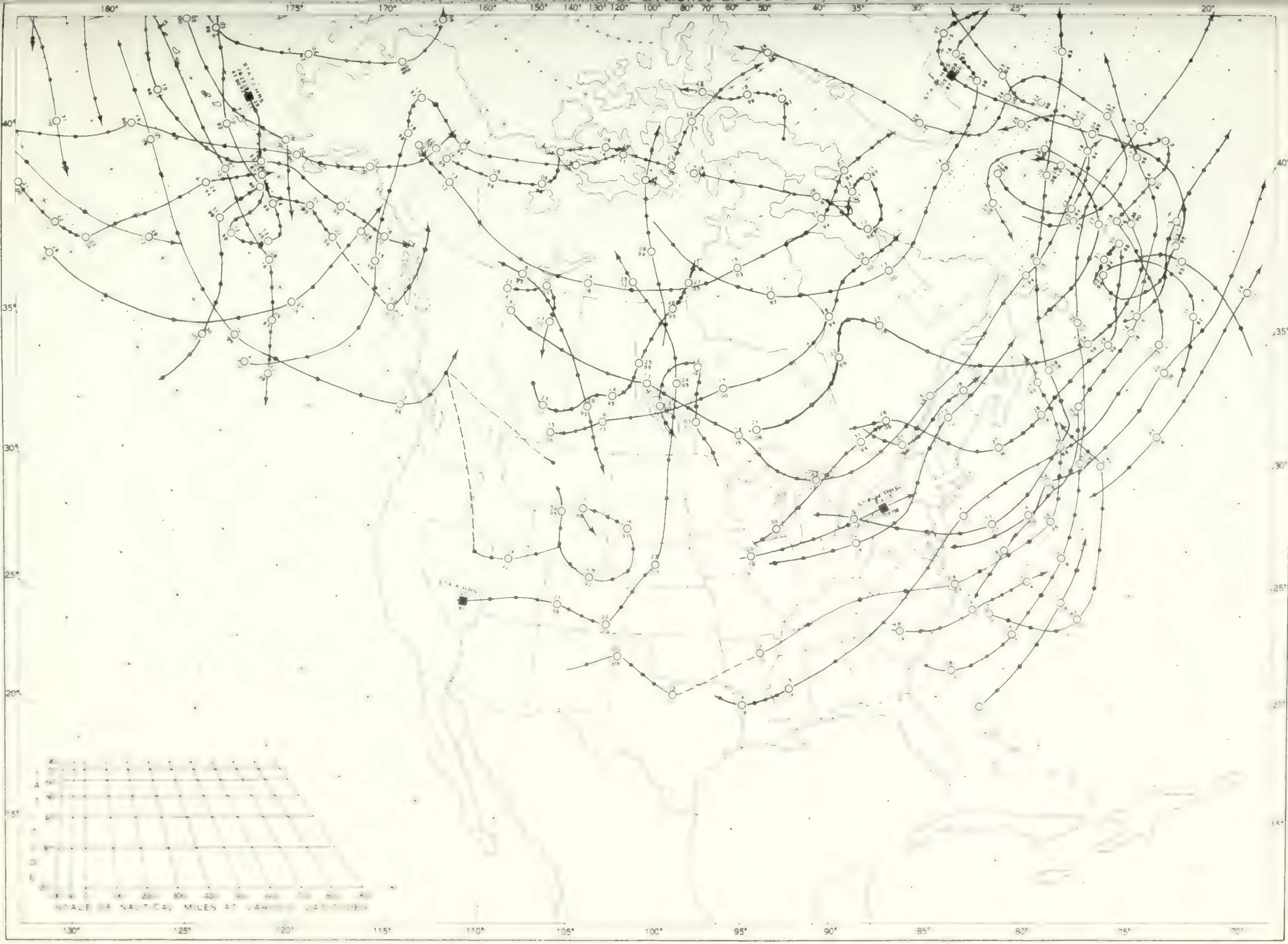

SCALE OF SHADES
ALASKA
14
71
67
HAWAII
29
20
5
30
300
200
150
100
75
50

Chart III. Tracks of Centers of Anticyclones at Sea Level, May 1975


180°
175°
170°
160°
150°
140°
130°
120°
100°
80°
70°
60°
50°
40°
35°
30°
25°
20°
130°
125°
120°
115°
110°
105°
100°
95°
90°
85°
80°
75°
70°
40°
35°
30°
25°
20°
15°
STA 24 HRS
STA 24 HRS
STA 36 HRS
STA 72 HRS
STA 96 HRS
LATITUDE
90°
70°
60°
50°
40°
30°
20°
100 50 0 100 200 300 400 500 600 700 800 900
SCALE OF NAUTICAL MILES AT VARIOUS LATITUDES

Circle indicates position of center at 7:00 a.m. E.S.T. Figure above circle indicates date, figure below, pressure to nearest millibar.


175°
170°
160°
150°
140°
130°
120°
100°
80°
70°
60°
50°
40°
35°
30°
25°
20°
40°
35°
30°
25°
20°
15°
130°
125°
120°
115°
110°
105°
100°
95°
90°
85°
80°
75°
70°
STA 72 HRS
STA 48 HRS
STA 24 HRS
SCALE OF NAUTICAL MILES AT VARIOUS LATITUDES
20
30
40

Circle indicates position of center at 7:00 a.m. E.S.T. Figure above circle indicates date, figure below, pressure to nearest millibar. Dots indicate intervening 6-hourly positions. Squares indicate position of stationary center for period shown. Dashed line in track indicates reformation at new position. Only those centers which could be identified for 24 hours or more are included.

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1776-1976

JUNE 1975 VOLUME 26 NUMBER 6

CLIMATOLOGICAL DATA

NATIONAL SUMMARY

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UNITED STATES OF AMERICA

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William H Haggard
DIRECTOR
NATIONAL CLIMATIC CENTER

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NOTE: Late reports and corrections will be carried in the June and December issues of this publication. An explanatory page "Description of Charts' will be carried in the January and July issues.

SUBSCRIPTION PRICE: $8.85 a year including annual summary; $7.75 additional for foreign mailing; 60¢ single copy; $1.65 annual summary. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N. C. 28801. Attn: Publications.

CLIMATOLOGICAL DATA

NATIONAL SUMMARY

JUNE 1975

GENERAL SUMMARY OF WEATHER CONDITIONS

Dr. Richard E. Felch, Climatologist

IGHTS: The heaviest precipitation amounts for
onth were reported in southwest Mississippi and
east Louisiana, where 8 to 12 inches fell. New
ns received 12.28 inches, the wettest June on
d. Unofficial reports of over 17 inches came
the Houston-Galveston area. Over 8 inches also
in parts of Kansas, Missouri, Minnesota, and
da. No rain fell in most of New Mexico, Ari-
southern California, and southern Nevada.

ts were generally above normal over the Great
s and the Corn Belt. Exceptions included nor-
Missouri, eastern Iowa, southern Illinois and
na, and central Ohio. Parts of Kentucky, Ten-
e, and the Carolinas were very dry.

ratures averaged within 2° of normal in most
. The Rocky Mountain States, the southern
Plains, and the Appalachians were cooler than
. The western tier of States and most of the
were warmer than usual.

PITATION: The first half of June included con-
able violent weather. Tornadoes, high wind,
ail were reported from Montana to Texas and
ard to Florida and New England during the first
At least one tornado, wind, hail, and flash
ing occurred in Nebraska and Kansas on the 2d.
and hail was common in the Northern Plains and
na on the 3d. On the 6th thunderstorms raged
the Atlantic Coast. A station in north cen-
Mississippi reported over 4 inches in just one
Heavy thunderstorms continued through the
in the Plains.

iolent weather continued as 17 inches of rain
at Sourlake, Texas, in a matter of a few hours
e 9th. Tornadoes were reported in central
and the Houston area. In contrast, snow fell
e Colorado Mountains. The all-day snowfall at
ado Springs set a record for so late in the
n. Friday the 13th brought tornadoes to Min-
a, Wisconsin, Iowa, Illinois, Indiana, and Ok-
a, with heavy damage at Stillwater.

Typical of late spring, thunderstorms with associated severe weather were rampant from the Plains to the East Coast during the third week of June. Tornadoes and hail were reported in eight States on the 17th. Serious agricultural flooding occurred in east central Kansas. By the 18th flooding had occurred from the foothills of the Rockies to the Missouri Valley and south to Kansas.

Precipitation was variable during the closing week of the month as scattered thunderstorms dropped locally heavy amounts. Eastern North Dakota and adjacent areas reported severe weather on the 28th with tornadoes, high winds, and hail. The severe weather continued over the weekend with serious flooding occurring, with heavy crop damage.

The first tropical storm of the season, "Amy", developed off the North Carolina coast on the 29th.

TEMPERATURE: The first week of June temperature trends were towards warming in the West and cooling in the East. The South was near normal all week.

The second week was much cooler than normal except for the Far West. A number of record low temperatures were measured throughout the week. The West was unusually warm as readings climbed well into the 90's.

The last week of Spring, cool air hovered over the Rocky Mountains and pushed into the High Plains. However, temperatures averaged well above normal in the eastern half of the Nation with the North Central States 4 to 9° above normal.

Temperatures continued above normal in the Corn Belt and Northeast, but was cooler than normal over the remainder of the Country.

OBSERVED EXTREMES OF TEMPERATURE AND PRECIPITATION -- BY STATES

JUNE 1975

STATE	Temperature						Precipitation			
	Monthly extremes						Monthly extremes			
	Station	Highest	Date	Station	Lowest	Date	Station	Greatest	Station	Least
		°F			°F			In.		In
Alabama	2 Stations	98	20	Florence	46	2	Ozark 6 NNW	11.04	Birmingham WSO AP	2.44
Alaska	Eagle	87	30	5 Stations	20	19+	Mac Leod Harbor	13.17	Happy Valley Camp	T
Arizona	Willow Beach	117	16	Fort Valley	23	26	Pipe Springs Natl. Mon	.64	143 Stations	.00
Arkansas	ǂ2 Stations	96	26+	2 Stations	45	1	Dierks	11.07	Little Rock WSFO AP	1.56
California	Death Valley	119	16	White Mountain 2	6	18	Jess Valley	1.82	204 Stations	.00
Colorado	La Junta FAA AP	105	30	3 Stations	14	11	Lamar	5.31	2 Stations	.03
Connecticut	Hartford WSO AP	95	23	Hautboy Hill Farm	33	10	Lake Konomoc	6.51	Danbury	3.25
Delaware	Bridgeville 1 NW	94	19	Georgetown 5 SW	47	11	Wilmgton Porter Resvr.	10.15	Lewes 1 SW	3.23
Florida	2 Stations	99	16	Daytona Beach WSO AP	54	15	Immokalee 3 NNW	13.96	Woodruff Dam	1.80
Georgia	Irwinton 4 WNW	99	18	Experiment	45	14	Jonesboro	9.02	Ailey	.89
Hawaii	Keawakapu Beach 260.2	90	27	2 Stations	33	30+	Paakea	9.26	26 Stations	.00
Idaho	Swan Falls Power House	96	5	Leadore 2	21	28	Wallace Woodland Park	5.14	Glenns Ferry	.03
Illinois	8 Stations	96	29+	2 Stations	42	8+	Ottawa	8.18	Gladstone Dam 18	1.02
Indiana	2 Stations	98	21+	Wabash	37	8	Rensselaer	10.40	Sullivan	1.81
Iowa	2 Stations	96	29	Elkader 5 SSW	36	2	Colo	11.68	Sigourney	1.95
Kansas	Liberal	100	16	Cimarron	39	11	Florence	13.48	Liberal	2.29
Kentucky	Gilbertsville KY DAM	98	30	Vanceburg	45	9	Cumberland	8.49	Bowling Green	1.09
Louisiana	Alexandria WSO AP	97	1+	Ashland 2 S	51	1	Vermilion Lock	19.40	Hackberry 8 SSW	1.75
Maine	Orono	96	24	Springfield	28	9	Rockland	8.79	Caribou WSO AP	2.40
Maryland	College Park	98	24	Catoctin Mountain Park	34	10	Williamsport	9.86	National Arboretum D.C.	1.79
Massachusetts	Chester 2	97	24	Chester 2	26	10	Heath	8.01	Boston WSO AP	2.10
Michigan	Kalamazoo State Hosp.	98	22	Ontonagon	26	8	Rock	7.67	Traverse City FAA AP	1.92
Minnesota	Redwood Falls FAA AP	97	28	Karlstad	26	1	Mahnomen 1 W	10.99	Grand Marais	3.18
Mississippi	3 Stations	96	30+	2 Stations	50	2	Tylertown 2 WNW	13.34	Corinth 5 WSW	1.03
Missouri	Chillicothe Radio KCHI	98	28	Berryman 6 NW	39	1	Springfield WSO AP	11.31	Steelville 2 N	1.36
Montana	Mildred	97	24	2 Stations	23	10+	East Glacier	10.86	Kila	.94
Nebraska	Scottsbluff WSO AP	97	29+	Agate 3 E	29	17	Eustis 2 NW	11.61	Potter 4 N	.80
Nevada	Sunrise Manr. Las Vegas	113	15	ǂMount Rose Bowl	20	24	North Fork 7 NW	2.77	7 Stations	.00
New Hampshire	North Conway	96	24	Mount Washington	23	9	Mount Washington	6.75	North Stratford	1.95
New Jersey	4 Stations	95	24+	Sussex 1 SE	39	10	Wertsville	9.57	Tuckerton	3.40
New Mexico	2 Stations	106	16+	Wolf Canyon	20	11	Abbott	2.72	30 Stations	.00
New York	3 Stations	96	24	Old Forge	29	10	Valatie 1 N	9.63	Peru 2 WSW	1.32
North Carolina	4 Stations	98	25+	Transou	39	9	Wilkesboro 2 W	8.57	Oxford 2 SW	.52
North Dakota	Hankinson R R Station	94	30	Keene 4 S	31	1	Lisbon	16.14	Wildrose	1.72
Ohio	Toledo Blade	98	23	Mansfield 6 W	36	8	Canfield 1 S	7.03	Dayton WSO AP	2.23
Oklahoma	2 Stations	103	17+	Kenton	40	11	McCurtain 1 SE	11.85	Laverne	1.06
Oregon	3 Stations	97	10+	Sprague River	12	26+	Hart Mountain Refuge	4.51	Wagontire	.03
Pennsylvania	Marcus Hook	97	19	Clermont 4 NW	32	10	Clarion 3 SW	12.00	Coraopolis Neville Is.	2.60
Puerto Rico	Utuado 1 WSW	98	10	Adjuntas Substation	54	28	Hacienda Constanza	12.04	4 Stations	.00
Rhode Island	Providence WSO AP	93	24	Kingston	40	10	Newport	5.26	Woonsocket	2.69
South Carolina	3 Stations	99	18+	3 Stations	52	11+	Cleveland 4 S	10.22	Clark Hill Dam	1.34
South Dakota	2 Stations	99	30+	Deerfield 4 NW	25	11+	Victor 1 ESE	8.46	Eagle Butte	1.88
Tennessee	4 Stations	95	30+	2 Stations	41	9	Kingsport	6.90	Parsons Water Plant	.79
Texas	2 Stations	110	15+	2 Stations	39	11	Houston-Deer Park	18.08	4 Stations	.00
Utah	Saint George	106	14	2 Stations	22	26+	Alta	4.70	Monument Vally Miss	.00
Vermont	4 Stations	93	25+	2 Stations	30	10+	Rutland	7.17	Canaan	1.77
Virgin Islands	Truman Fld FAA AP No 2	93	23	Beth Upper New Works	64	10	Estate Fort Mylner	1.85	Frederiksted	.40
Virginia	Boykins	101	18	Monterey	35	9	Louisa	10.51	Boykins	.25
Washington	Kennewick	97	1	Rainier Paradise RS	27	27+	Tolt South Fork Resvr.	5.27	2 Stations	.06
West Virginia	Bluestone Lake	96	24	3 Stations	37	9	Kearneysville WSO	8.29	Renick No. 2	1.13
Wisconsin	Lake Mills	94	20	3 Stations	30	8	St. Croix Falls	11.93	Blue Mounds 5 S	2.34
Wyoming	4 Stations	97	29+	4 Stations	20	19+	Echeta 2 NW	6.25	Dixon	.05

ǂExtreme occurred at station with incomplete data which may have been exceeded.

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation ground	Pressure		Temperature								No of days			Average relative humidity	Precipitation			No of days		Snow, Ice pellets		Wind		Fastest mile (1.6 kilometers)			No of days (sunrise to sunset)			Sky cover tenths (sunrise to sunset)	Possible sunshine
		Station	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min. 0 C or lower	Average dew point		Total	Departure from normal	Greatest in 24 hours	25 mm or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear 0-3	Partly cloudy 4-7	Cloudy 8-10		
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
ALABAMA																																
BIRMINGHAM	189	994.9	1016.2	30.6	18.8	24.7	-0.6	33.3	10	13.9	3+	5	0	18.3	71	62	-40	20	13	14	0	0	0.4	18	12.1	[illegible]	6	3	14	13	6.5	59
HUNTSVILLE	190	994.2	1017.0	30.1	18.3	24.2	-0.7	32.8	30+	11.1	2	4	0	18.3	71	117	16	43	13	9	0	0	0.7	18	13.0	27	5	6	10	12	5.8	
MOBILE	64	1008.1	1016.1	31.7	22.4	27.1	0.2	33.9	10	20.6	3	18	0	21.1	74	96	-59	22	17	12	0	0	1.0	17	9.4	12	22+	2	18	10	6.3	
MONTGOMERY	59	1009.9	1017.[illegible]	31.1	19.9	25.1	-1.0	33.3	30+	16.1	4+	4	0	20.6	79	121	19	40	13	11	0	0	0.3	22	12.5	[illegible]	29	4	17	9	6.2	7[illegible]
ALASKA																																
ANCHORAGE	35	1008.5	1013.3	15.6	7.7	11.7	-0.9	20.6	28	2.2	12	0	0	5.6	67	12	-15	3	9	0	0	0	2.2	19	13.0	14	29	3	6	21	8.1	54
ANNETTE	34	1013.9	1017.6	13.7	6.9	10.3	-2.2	25.0	18	5.0	11	2	0	6.1	78	141	13	33	15	0	0	0	0.9	19	10.3	15	12	2	4	24	8.3	
BARROW	9	1012.5	1013.1	2.7	-0.2	0.9	0.3	14.4	29	-6.7	1	0	25	0.0	95	20	11	8	9	0	T	51	2.5	9	10.7	24	27	[illegible]	1	29	9.6	
BARTER ISLAND	12	1011.2	1013.0	3.6	-0.3	1.7	0.5	17.2	30	-3.9	1	0	20	0.6	95	8	-5	4	7	0	10	76	4.1	7	13.0	8	2+	0	5	25	8.8	
BETHEL	38	1004.7	1017.5	14.3	5.2	9.7	-1.2	20.6	1	1.7	5	0	0	5.6	78	39	7	13	16	0	0	0	2.1	22	14.8	18	30	0	3	27	9.0	
BETTLES	196			19.2	9.4	14.3	0.9	23.9	10	4.4	24	9	0			32	1	11	11		0	0			10.3	13	1[illegible]	2	14	14	7.1	
BIG DELTA	386			18.4	8.8	13.6	-0.3	25.6	29+	6.1	3	6	0			94	40	42	18		0	0										
COLD BAY	29	1007.8	1011.6	10.9	4.8	7.9	0.4	17.8	20	1.1	11	0	0	5.0	84	77	30	41	19	0	[illegible]	0	2.6	19	21.5	16	29+	[illegible]	1	29	9.6	
FAIRBANKS	133	992.7	1009.4	22.6	12.3	17.4	2.4	30.0	29	7.2	12	21	0	6.7	51	25	-11	7	11	1	0	0	0.9	24	10.3	23	11	[illegible]	11	19	8.1	
GULKANA	479			16.7	5.3	11.0	-1.3	26.7	28	-0.6	5	5	1			65	31	17	11		0	0										
HOMER	13	1010.2	1013.[illegible]	12.9	4.7	8.8		20.0	20	0.0	11	0	1	5.6	79	24	-3	10	12	0	0	0	1.9	24	10.3	14	29+	1	14	15	7.6	
JUNEAU	6	1015.2	1019.1	14.9	6.7	10.8	-1.0	24.4	18	4.4	23+	1	0	5.7	81	63	-11	15	17	0	0	0	1.4	12	9.8	11	9+	3	2	25	8.7	36
KING SALMON	15	1009.5	1011.6	13.2	3.6	8.4	-2.0	20.0	27	0.6	10+	0	0	3.2	77	68	32	19	16	0	0	0	2.2	17	14.3	14	28	1	4	25	8.4	
KODIAK	4	1008.8	1013.1	1[illegible].2	4.6	7.4	-2.4	19.4	20	1.7	7	0	0	4.4	66	114	11	31	16	0	0	0	2.1	6	15.6	7	8	2	5	23	8.5	
KOTZEBUE	3	1010.5	1011.[illegible]	5.9	0.1	3.1	-3.3	16.7	28	-2.8	11+	0	16	1.7	90	17	4	7	10	0	T	T	3.9	27	15.6	15	29	1	10	19	8.0	
MCGRATH	105	998.0	1011.4	17.7	6.8	12.3	-0.9	23.9	20	2.2	9	6	0	5.6	68	33	-10	8	14	2	T	T	0.8	21	9.4	28	30	[illegible]	5	25	8.6	
NOME	4	1009.5	1011.2	9.6	1.9	5.8	-1.7	18.3	[illegible]	-0.6	11+	0	7	2.3	81	29	5	13	6	0	[illegible]	0	1.7	24	12.5	27	25+	11	11	8	5.0	51
ST. PAUL ISLAND	7	1010.5	1011.5	5.0	1.8	3.4	-1.6	8.9	20	-1.1	4	0	6	2.2	93	27	-5	10	12	0	3	51	1.7	35	15.6	5	28	[illegible]	2	18	9.7	
SUMMIT	731			12.4	3.6	8.0	-1.4	19.4	20	-0.6	9	0	3			64	9	15	17	0	13	T			10.7	24	30	[illegible]	3	27	9.4	
TALKEETNA	105			16.1	6.7	11.4	-1.4	23.3	28	2.8	6	4	0			74	19	27	13	0	0	0			7.2	17	1					
UNALAKLEET	5			10.3	4.2	7.3		20.0	29	-0.6	13	0	1			33		16	12		0	T			10.3	17	3+					
YAKUTAT	9			10.6	6.2	8.4	-1.4	13.3	27+	3.3	21	0	0			207	63	31	20	0	0	0			6.0	14	13	[illegible]	1	28	9.6	
ARIZONA																																
FLAGSTAFF	2135	788.7	1013.2	25.2	2.7	13.9	-0.6	30.0	15+	-3.3	26	0	4	-4.4	29	1	-13	1	1	0	0	0	2.5	21	14.8	[illegible]	17	23	6	1	2.[illegible]	[illegible]
PHOENIX	340	970.2	1007.4	39.3	21.3	30.3	1.1	42.2	2	18.3	21	30	0	0.6	16	T	-3	T	0	0	0	0	0.9	26	15.6	[illegible]	17	27	3	0	[illegible]	[illegible]
TUCSON	789	922.4	1008.1	35.7	18.2	26.9	-0.9	39.4	3+	15.0	22+	27	0	0.0	19	0	-5	0	0	0	0	0	1.8	13	12.1	[illegible]	[illegible]	[illegible]	3	0	[illegible]	[illegible]
WINSLOW	1492	852.3	1010.6	32.0	10.8	21.4	-0.7	37.8	3[illegible]	6.1	25+	16	0	-5.6	19	T	-7	T	0	1	0	0	3.1	22	16.1	[illegible]	17	25	[illegible]	1	2.1	
YUMA	59	1002.7	1007.9	38.4	20.9	29.7	-0.2	42.2	12	16.7	20+	28	0	5.[illegible]	24	0	[illegible]	0	0	0	0	0	2.2	20	14.8	[illegible]	[illegible]	[illegible]	1	0	[illegible]	[illegible]
ARKANSAS																																
FORT SMITH	134	998.0	1014.3	29.7	18.9	24.3	-1.3	33.3	[illegible]	10.5	1	5	0	14.0	74	149	47	54	13	12	[illegible]	0	0.7	15	13.9	[illegible]	14	[illegible]	12	6	5.[illegible]	[illegible]
LITTLE ROCK	78	1005.8	1015.[illegible]	32.0	19.8	25.9	[illegible]	34.4	30+	13.3	1	17	0	13.4	70	40	-49	12	10	14	[illegible]	0	1.0	[illegible]	16.1	[illegible]	22+	11	[illegible]	[illegible]	[illegible]	[illegible]
CALIFORNIA																																
BAKERSFIELD	145	993.9	1011.1	34.9	19.6	27.3	2.3	41.7	10	12.2	25	24	0	6.1	33	0	-2	0	0	[illegible]	[illegible]	[illegible]	2.6	[illegible]	13.[illegible]	[illegible]	[illegible]	27	3	[illegible]	[illegible]	
BISHOP	1252	871.3		32.1	10.2	21.2	0.2	37.9	15+	5.0	25	20	0			2	-1	2	2		[illegible]	0			[illegible]		24					
BLUE CANYON	1609	839.5		21.9	10.8	16.4	1.3	30.0	13	0.0	25+	0	2			19	-7	18	3		[illegible]	T			9.8	23	24	[illegible]	7	4	2.[illegible]	
EUREKA	13			14.3	9.2	11.8	-1.1	17.2	13+	6.7	[illegible]	0	0			15	-2	13	5		[illegible]	0			[illegible]	[illegible]	3	[illegible]	11	[illegible]	5.3	[illegible]
FRESNO	100	[illegible]	1011.6	32.8	14.6	23.7	0.4	38.3	13	8.3	25	13	0	[illegible]	43	0	[illegible]	0	0	0	[illegible]	[illegible]	2.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5	[illegible]	[illegible]	[illegible]
LONG BEACH	8	1012.8	[illegible]	23.3	15.3	19.3	-0.3	28.3	3+	12.[illegible]	26+	0	0	13.[illegible]	73	T	-1	T	0	0		[illegible]	1.6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16	[illegible]	[illegible]	
LOS ANGELES	32	1012.5	[illegible]	21.3	14.7	18.1	0.0	25.6	27	12.5	[illegible]	[illegible]	[illegible]	13.3	80	T	-1	T	[illegible]	0		[illegible]	2.5	[illegible]	[illegible]	[illegible]	24	7	7	[illegible]	[illegible]	
LOS ANGELES CITY	87			22.9	14.5	18.7	-1.3	29.4	26	11.7	[illegible]	[illegible]	[illegible]			[illegible]	-1	[illegible]	[illegible]			[illegible]			6.3	[illegible]	[illegible]	[illegible]	11	[illegible]	6.1	[illegible]
MT SHASTA	1080	892.3	[illegible]	24.3	7.9	16.2	[illegible]	32.2	14	0.6	25+	1	[illegible]	[illegible]	46	13	-14	11	3		[illegible]	[illegible]	1.8	[illegible]								
OAKLAND	2	1014.9	[illegible]	19.9	12.4	16.[illegible]	-0.4	26.1	[illegible]	10.5	25	0	[illegible]	[illegible]	76	2	-3	2	2	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15	[illegible]	4	[illegible]	
RED BLUFF	103	999.8	1011.7	32.9	16.3	24.6	0.4	41.1	13	10.[illegible]	25+	19	[illegible]	7.0	38	6	-6	6	1	0	[illegible]	[illegible]	[illegible]	[illegible]	12.4	[illegible]	5	[illegible]	[illegible]	[illegible]	2.[illegible]	[illegible]
SACRAMENTO	5	1011.2	[illegible]	32.1	13.7	22.9	1.5	40.0	13	10.[illegible]	25	15	0	10.0	51	T	-3	T	0	[illegible]	[illegible]	[illegible]	2.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SANDBERG	1377																								[illegible]	[illegible]	24					
SAN DIEGO	4	1013.5	1014.4	[illegible].9	15.7	18.3	-0.3	23.3	3+	14.4	25+	0	0	12.[illegible]	73	1	-1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.0	17	[illegible]	[illegible]	[illegible]	[illegible]	13	[illegible]	[illegible]	[illegible]
SAN FRANCISCO	5	1014.2	[illegible]	[illegible].3	10.6	15.4	[illegible]	27.[illegible]	[illegible]	8.3	25	0	0	9.0	78	1	-2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	29	[illegible]	[illegible]	17	[illegible]	7	4	[illegible]	
SAN FRANCISCO CITY	16			[illegible]	11.7	13.8	-1.0	21.1	28	10.[illegible]	23+	0	0			[illegible]	-3	1	2			0										
SANTA MARIA	72			[illegible]	10.7	15.7	[illegible]	24.[illegible]	[illegible]	6.1	27	[illegible]				[illegible]	-1	T	[illegible]			[illegible]						11	[illegible]	1	6.1	
STOCKTON	7	[illegible]	1012.[illegible]	31.1	13.8	22.4	[illegible]	40.[illegible]	13	[illegible]	25	13	[illegible]	[illegible]	52	T	[illegible]	T	[illegible]	[illegible]	[illegible]	[illegible]	4.1	30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1	[illegible]	
COLORADO																																
ALAMOSA	2297	778.8		24.7	3.8	14.3	-1.1	30.[illegible]	30	[illegible]	12	[illegible]	[illegible]			17	[illegible]	15	5		T	[illegible]						10	13	[illegible]	3.[illegible]	

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation, ground	Pressure: Station	Pressure: Sea level	Temperature: Average maximum	Temperature: Average minimum	Temperature: Average	Temperature: Departure from normal	Temperature: Highest	Temperature: Date	Temperature: Lowest	Temperature: Date	No of days: Max 32.2 °C or above	No of days: Min 0 °C or lower	Average dew point	Average relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	No of days: 25 mm or more	No of days: With thunderstorms	Snow, Ice pellets: Total	Snow, Ice pellets: Maximum depth on ground	Wind: Resultant speed	Wind: Resultant direction	Fastest mile (1.6 kilometers): Speed	Fastest mile: Direction	Fastest mile: Date	No of days (sunrise to sunset): Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m s		m s							%
COLORADO																																
COLORADO SPRINGS	1873	811.0	1011.3	25.9	9.5	17.7	-0.4	33.3	30	0.6	11+	3	0	3.9	46	75	17	60	7	8	28	T	0.7	11	17.4	35	16	12	10	8	4.6	
DENVER	1610	835.4	1011.1	26.4	9.4	17.9	-0.9	33.3	30+	3.3	11	5	0	5.6	50	54	5	21	12	6	0	0	1.1	19	18.8	NW	12	15	7	8	4.5	70
GRAND JUNCTION	1476	850.3	1009.4	28.8	10.7	19.7	-2.1	36.7	3	5.5	17+	10	0	0.6	33	11	-3	5	7	5	0	0	0.6	19	15.6	W	25	14	11	5	4.2	81
PUEBLO	1428	853.4	1009.1	30.2	11.9	21.1	-0.4	37.2	30	4.4	11	13	0	6.7	47	52	18	39	5	6	0	0	0.5	16	19.2	E	27	14	11	5	4.0	90
CONNECTICUT																																
BRIDGEPORT	2	1016.3	1016.7	23.2	15.9	19.6	-0.4	31.1	24	10.0	10	0	0	16.1	83	86	21	35	10	5	0	0	0.0	19	10.3	7	30+	4	9	17	7.1	
HARTFORD	57	1010.2	1016.4	25.9	14.4	20.2	0.3	35.0	23	5.0	10	3	0	13.9	71	97	8	31	10	4	0	0	0.5	20	12.5	NW	3	3	6	19	7.7	55
DELAWARE																																
WILMINGTON	23	1013.5	1016.7	26.7	17.2	21.9	0.1	33.3	19	10.6	9	2	0	15.6	70	156	74	61	11	8	0	0	0.6	21	11.2	34	19+	6	15	9	5.9	
DIST.OF COLUMBIA																																
WASHINGTON DULLES	88	1005.1	1016.7	27.6	15.6	21.6	-0.1	34.4	24	6.1	9	3	0	17.2	77	180	88	69	12	7	0	0	0.6	23	11.2	6	25	6	15	9	5.9	
WASHINGTON NATIONAL	3	1014.6	1016.9	29.2	20.1	24.7	1.0	34.4	10	13.3	9	7	0	16.7	64	55	-34	12	10	7	0	0	0.5	21	12.1	NW	8	10	10	10	5.7	68
FLORIDA																																
APALACHICOLA U	4	1016.3	1016.2	30.8	22.3	26.6	-0.1	32.2	20+	20.5	5+	5	0	22.2	79	115	-20	35	10	12	0	0	0.7	21	9.8	E	22	7	18	5	5.3	
DAYTONA BEACH	9	1015.6	1017.1	31.2	21.6	26.4	0.1	33.9	13+	12.2	15	9	0	21.7	80	229	61	57	22	19	0	0	0.5	15	13.0	31	15	4	13	13	6.7	
FORT MYERS	5	1016.6		33.6	22.4	28.0	0.7	36.7	11	21.1	22+	27	0	21.7	75	268	42	98	14	19	0	0	0.1	19	13.4	15	20	4	18	8	6.2	
JACKSONVILLE	8	1016.3	1017.2	32.2	22.1	27.2	0.9	35.0	6	18.9	4	20	0	21.7	76	132	-27	21	17	13	0	0	0.1	13	24.1	SW	16	3	14	13	6.6	54
KEY WEST	1	1015.9	1016.6	31.7	26.2	29.0	0.4	32.8	29+	21.7	21	10	0	22.2	68	133	17	100	9	12	0	0	2.0	13	10.7	E	21	4	21	5	5.5	93
LAKELAND U	65			32.2	21.9	27.1	0.1	35.6	16	20.0	20	18	0			93	-77	33	14		0	0						3	18	9	6.0	77
MIAMI	2	1016.9	1017.2	30.9	24.1	27.5	0.3	33.3	8	22.8	23+	6	0	22.8	78	162	-67	54	16	15	0	0	1.1	13	9.4	24	28+	1	17	12	6.8	
ORLANDO/MC COY AFB	29	1013.5	1017.2	32.7	21.6	27.1	0.3	34.4	15+	20.6	17+	21	0	21.1	76	246	66	52	15	24	0	0	0.4	25	14.3	31	1	5	11	14	6.5	
PENSACOLA	34	1012.2	1016.5	31.8	22.7	27.3	0.3	33.9	20+	20.6	27+	12	0	22.2	77	116	-44	36	13	14	0	0	0.9	20	13.0	31	7	4	20	6	5.7	
TALLAHASSEE	17	1014.2	1016.7	32.4	21.0	26.7	0.1	34.4	12	16.7	4	19	0	21.7	79	121	-47	60	17	16	0	0	0.1	10	11.2	12	21+	4	17	9	6.1	
TAMPA	6	1016.6	1017.0	33.1	23.2	28.1	0.9	35.6	18	21.1	20	25	0	22.2	74	222	57	80	15	20	0	0	0.4	26	13.0	15	19	7	12	11	6.3	78
WEST PALM BEACH	5	1016.3	1017.0	30.7	22.1	26.4	-0.6	32.2	15+	20.6	21	4	0	21.7	80	182	-24	51	15	20	0	0	0.9	15	13.0	24	9	4	10	16	6.9	
GEORGIA																																
ATHENS	244	988.2	1016.7	29.1	18.8	23.9	-0.9	33.9	17	15.6	14+	3	0	18.9	76	81	-28	41	12	10	0	0	0.5	34	13.0	21	15	8	14	8	5.4	
ATLANTA	308	980.7	1016.8	29.6	18.5	24.1	-0.2	32.8	18	15.0	3	2	0	17.8	73	140	47	47	15	11	0	0	0.3	30	15.2	5	15	4	15	11	6.3	63
AUGUSTA	41	1011.2	1016.4	30.0	18.7	24.3	-1.3	33.3	20	14.4	4	2	0	17.8	72	130	37	39	11	10	0	0	0.1	4	12.5	20	2	8	13	9	5.7	
COLUMBUS	117	1003.1		31.6	19.9	25.8	-0.2	33.9	19+	16.7	3	14	0	18.9	72	100	-5	48	10	11	0	0	0.3	3	13.0	4	29	6	17	7	5.5	
MACON	108	1004.4	1017.2	31.1	19.2	25.2	-1.3	34.4	18	15.6	4	8	0	18.9	73	97	-1	54	12	12	0	0	0.3	32	11.6	SW	10+	6	15	9	5.9	65
ROME	194			30.5	17.8	24.2	-0.2	33.9	18	13.3	13+	7	0			94	-1	24	14		0	0										
SAVANNAH	14	1015.6	1017.3	31.5	21.2	26.4	0.2	34.4	18+	18.9	4	14	0	20.6	75	53	-97	31	12	10	0	0	0.3	33	13.4	N	18	5	12	13	6.7	52
HAWAII																																
HILO	8	1017.3	1018.6	27.7	19.3	23.6	-0.1	30.0	22	17.8	7	0	0	17.8	74	107	-61	15	27	0	0	0	0.2	9	7.6	E	22	2	6	22	7.8	47
HONOLULU	2	1017.3	1017.8	29.4	21.8	25.6	-0.4	31.1	28	19.4	22	0	0	17.2	62	1	-7	1	3	0	0	0	6.2	6	12.1	NE	25	0	23	7	5.9	63
KAHULUI	15	1014.9	1017.3	28.1	19.3	23.7	-1.3	31.7	27	15.6	30+	0	0			1	-4	1	2	0	0	0	6.6	5	13.9	NE	27	7	19	4	4.9	73
LIHUE	31	1014.2	1019.3	27.8	22.5	25.2	-0.1	28.9	30+	20.6	19	0	0	18.9	69	10	-29	2	15	0	0	0	5.7	7	9.8	NE	24	2	19	9	6.4	69
IDAHO																																
BOISE	865	913.3	1012.3	25.7	10.2	18.0	-0.2	32.2	11+	5.6	29	2	0	4.4	45	20	-7	9	6	3	0	0	1.4	32	18.8	SE	24	8	14	8	5.5	68
LEWISTON	431			23.9	11.2	17.6	-0.8	31.1	11+	6.1	28+	0	0			33	-14	14	10		0	0			16.5Y		15	4	7	19	7.4	
POCATELLO	1358	861.2	1011.7	23.8	8.9	16.4	-0.2	32.8	30	4.4	10	1	0	2.8	44	19	-14	6	6	1	T	0	3.8	23	18.8	SW	2	10	10	10	5.7	74
ILLINOIS																																
CAIRO U	96			31.6	21.2	26.4	1.1	35.6	29+	13.9	1	18	0			75	-36	55	6		0	0			14.8	SW	17					74
CHICAGO O HARE	201	989.5	1013.6	26.6	16.2	21.4	1.3	32.2	22+	8.3	8	2	0	16.1	74	129	23	31	16	12	0	0	1.0	20	14.8	28	12	5	13	12	6.2	
CHICAGO MIDWAY	185	991.9	1014.2	27.5	17.0	22.3	0.9	33.3	22	9.4	8	4	0	16.1	71	118	17	31	14	13	0	0	1.3	20	14.8	W	12	6	12	12	5.9	70
MOLINE	177	991.9	1013.1	28.3	16.4	22.4	0.8	33.3	28	8.9	8	7	0	15.6	69	89	-23	31	15	13	0	0	1.6	20	13.9	W	18	9	8	13	5.8	46
PEORIA	199	990.5	1014.2	28.1	16.5	22.3	0.4	32.8	21+	10.0	8+	5	0	16.7	72	99	0	23	12	12	0	0	1.8	20	13.4	W	12	7	8	15	6.5	68
ROCKFORD	221	987.1	1013.7	27.2	15.6	21.4	0.9	32.2	22+	7.2	2	3	0	15.0	68	119	7	31	12	12	0	0	1.2	19	15.6	31	13	4	13	13	6.6	
SPRINGFIELD	179	992.2	1014.0	28.8	17.4	23.1	0.4	33.3	21+	10.0	1	8	0	16.7	69	111	6	43	8	10	0	0	2.0	20	17.9	NW	1	9	12	9	5.4	67
INDIANA																																
EVANSVILLE	116	1002.0	1015.7	30.3	18.7	24.6	0.8	35.0	21+	12.8	1	14	0	17.2	66	78	-13	29	7	5	0	0	1.3	21	14.8	SW	17	9	15	6	4.8	79
FORT WAYNE	241	985.8	1015.4	26.3	15.4	20.9	0.1	32.2	29+	5.6	8	2	0	16.7	78	112	12	36	13	9	0	0	1.5	22	15.2	SW	17	8	7	15	6.2	74

CLIMATOLOGICAL DATA

METRIC UNITS

JUNE [illegible]

State and Station	Elevation (ground)	Pressure: Station	Pressure: Sea level	Temperature: Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days: Max 32.2 °C or above	No. of days: Min. 0 °C or lower	Average dew point	Average relative humidity	Precipitation: Total	Departure from normal	Greatest in 24 hours	No. of days: 25 mm or more	No. of days: With thunderstorms	Snow, ice pellets: Total	Snow, ice pellets: Maximum depth on ground	Wind: Resultant speed	Resultant direction	Fastest mile (1.6 kilometers): Speed	Direction	Date	No. of days (sunrise to sunset): Clear 0-3	Partly cloudy 4-7	Cloudy 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
INDIANA																																
INDIANAPOLIS	241	986.8	1015.6	27.3	16.5	21.9	-0.1	32.8	20	7.8	8	1	0	17.8	78	146	40	95	8	6	0	0	1.6	21	14.3	SW	17	10	6	14	6.1	64
SOUTH BEND	236	986.5	1014.1	26.6	16.0	21.3	0.9	32.8	22	7.2	8	2	0	16.1	76	139	44	47	10	10	0	0	1.4	22	13.0	29	12	5	14	11	6.4	
IOWA																																
BURLINGTON	211			27.9	16.8	22.4	0.5	33.3	19	11.1	7+	5	0	17.0	78	57	-62	21	12	11	0	0	1.6	21	11.6	13	4	[illegible]	13	11	6.1	
DES MOINES	286	978.7	1012.6	27.4	17.3	22.4	1.0	32.8	28	10.6	2	3	0	16.1	71	152	27	52	12	11	0	0	1.4	19	17.0	5	18	6	12	12	6.5	57
DUBUQUE	322	974.9		25.4	15.1	20.3	0.6	32.2	28	7.8	2	1	0			95	-39	21	13		0	0										
SIOUX CITY	334	972.9	1012.0	26.3	15.3	20.8	-0.4	31.7	29+	7.8	2+	0	0	15.0	72	136	19	45	15	5	0	0	0.8	18	16.5	6	3	8	11	11	6.1	64
WATERLOO	265	981.7	1012.9	27.1	16.2	21.7	1.4	33.9	28	7.2	2	7	0	15.6	70	102	-26	27	13	9	0	0	1.4	20	14.8	21	21	3	13	14	6.6	
KANSAS																																
CONCORDIA	448	959.7	1011.6	28.2	15.9	22.1	-0.5	32.8	30+	8.3	1	4	0	14.1	71	177	50	57	9	9	0	0	2.1	16	24.1	NW	2	7	[illegible]	[illegible]	6.1	80
DODGE CITY	787	922.5	1011.0	29.1	15.8	22.4	-0.7	35.0	16	8.3	11+	9	0	13.3	62	114	29	36	12	13	0	0	2.6	16	11.0	NW	6	9	14	7	5.3	79
GOODLAND	1114	885.9	1010.6	26.8	11.8	19.3	-1.3	33.3	3	5.6	11	2	0	10.6	63	133	59	68	12	9	0	0	1.7	18	[illegible]	36	17	9	13	8	5.1	
TOPEKA	267	981.4	1012.7	28.9	17.9	23.4	0.4	32.8	28	8.9	2	6	0	17.4	73	123	-24	50	10	8	0	0	1.7	17	17.9	SW	2	6	11	13	6.1	66
WICHITA	403	965.5	1012.3	29.1	17.1	23.1	-1.2	33.3	6	7.8	2	3	0	17.2	72	175	61	41	14	13	0	0	3.0	19	16.5	SW	16	7	[illegible]	11	5.7	63
KENTUCKY																																
COVINGTON	265	985.1	1016.2	28.2	16.6	22.4	0.1	34.4	20	10.6	8	6	0	16.7	73	129	33	44	12	9	0	0	1.4	22	11.6	21	17	8	11	11	6.0	
LEXINGTON	296	981.7	1016.3	28.7	17.4	23.1	0.3	32.8	29+	10.6	3	8	0	16.1	68	57	-53	21	9	4	0	0	1.2	19	9.4	26	17+	8	13	9	5.8	
LOUISVILLE	145	998.0	1015.4	29.6	18.6	24.1	1.2	34.4	[illegible]	12.8	8+	8	0	16.7	66	80	-23	38	10	5	0	0	1.1	20	17.4	6	17	7	14	9	6.1	64
LOUISIANA																																
ALEXANDRIA	28	1011.2	1015.3	32.9	21.1	27.0	1.1	36.1	13	[illegible]	1	23	0	22.2	80	156	57	45	11	16	0	0	1.1	17	9.4	16	19	6	17	7	5.6	
BATON ROUGE	20	1013.2	1015.9	31.7	21.2	26.4	-0.4	33.3	18+	16.1	1	13	0	21.7	79	130	34	50	15	16	0	0	1.2	15	13.0	9	22	5	14	11	6.4	
LAKE CHARLES	3	1013.9	1015.1	30.7	22.3	26.6	-0.5	33.3	20	15.6	1	6	0	22.9	84	135	10	35	10	16	0	0	1.7	15	10.3	16	23+	5	16	9	5.8	
NEW ORLEANS	1	1014.9	1015.7	30.8	21.9	26.3	-0.6	33.3	20	18.9	3	5	0	22.8	83	312	192	68	18	20	0	0	1.3	18	11.6	19	15	7	11	12	6.4	60
SHREVEPORT	77	1005.4	1014.7	31.4	19.9	25.7	-1.1	33.3	18	13.3	1	14	0	20.6	77	88	4	35	14	15	0	0	1.4	17	13.4	29	7	6	15	9	5.8	77
MAINE																																
CARIBOU	190	991.5		22.4	10.2	16.3	1.0	32.8	23	1.7	9	2	0			61	-26	25	9		0	0						6	7	17	6.9	
PORTLAND	13	1013.9	1016.2	21.7	11.1	16.4	-0.4	32.8	24	3.3	10	1	0	12.9	82	124	45	54	12	3	0	0	0.5	21	10.7	5	13	9	6	15	6.6	61
MARYLAND																																
BALTIMORE	45	1011.5	1016.9	27.9	17.6	22.8	0.3	35.6	24	10.6	9	6	0	17.2	73	97	1	25	12	7	0	0	0.7	23	13.4	NW	5	10	11	9	5.5	61
MASSACHUSETTS																																
BLUE HILL [illegible]	192			22.7	13.5	18.1	-0.5	32.2	23	6.7	10	1	0			109	29	53	9		0	0			18.3	SE	6					53
BOSTON	5	1015.6	1016.7	23.8	15.6	19.7	-0.3	34.4	24+	9.4	10	3	0	13.4	70	53	-28	28	9	0	0	0	0.8	23	14.3	SE	6	7	7	16	6.8	
WORCESTER	301	980.4		22.2	12.8	17.6	-0.8	30.6	23	4.4	10	0	0	12.2	76	84	-7	28	11	1	0	0	1.3	28	9.4	34	20	5	8	17	7.1	
MICHIGAN																																
ALPENA	210	989.5	1014.5	24.1	11.1	17.6	1.6	33.9	22	4.4	2	1	0	11.7	70	82	9	32	10	5	0	0	1.3	16	13.3	NW	7	6	14	10	6.0	61
DETROIT	189			26.4	17.2	21.8	1.2	32.8	23+	8.3	9	2	0	15.0	67					9			1.8	21	15.6	28	23					
DETROIT METRO	193	990.9	1014.7	25.7	15.4	20.6	0.4	32.2	22	7.8	9	1	0	14.4	71	61	-26	18	11	6	0	0	1.4	21	14.3	6	12+	7	14	9	5.9	67
FLINT	235	986.8	1014.2	24.6	14.5	19.6	0.8	31.7	22	7.2	9+	0	0	[illegible]	75	119	32	48	9	8	0	0	1.3	21	12.5	19	15	3	14	13	6.8	
GRAND RAPIDS	239	985.4	1014.3	25.7	13.8	19.8	0.1	31.7	24+	3.9	2	0	0	15.6	78	152	65	57	15	11	0	0	1.3	22	17.9	SW	12	5	11	14	6.6	56
HOUGHTON LAKE	350	972.9	1014.5	23.8	11.8	17.8	0.8	31.1	29+	4.4	9	0	0	12.8	74	98	11	27	14	8	0	0	1.0	22	9.8	27	15	4	15	11	6.1	
LANSING	256	983.1	1014.4	25.9	14.4	20.2	0.7	33.3	22	4.4	9	1	0	15.6	77	74	-14	18	10	9	0	0	1.5	21	24.1	NW	15	5	16	9	6.4	53
MARQUETTE	206			21.1	11.2	16.2	0.6	32.8	22	4.4	1	2	0			117	29	28	10		0	0			11.6	SW	22	4	12	14	6.6	59
MUSKEGON	191	991.5	1014.3	24.8	14.9	19.7	1.0	32.8	29	5.6	2	1	0	14.4	74	126	59	41	12	10	0	0	1.5	21	14.3	18	13	7	16	7	5.6	
SAULT STE MARIE	220	987.5	1013.9	22.7	9.7	16.2	1.4	32.2	22	2.2	2	1	0	12.8	82	94	10	41	13	5	0	0	0.7	18	9.8	SW	16+	4	11	15	6.7	57
MINNESOTA																																
DULUTH	435	961.7	1013.0	19.4	9.3	14.4	-0.6	29.4	30	2.2	8	0	0	10.6	81	142	29	39	15	7	0	0	0.7	10	18.8	NW	13	3	11	16	7.4	33
INTERNATIONAL FALLS	359	962.8	1011.7	22.2	10.2	16.2	0.4	29.4	28	1.7	2	0	0	11.7	76	158	59	82	19	11	0	0	0.7	19	10.3	20	24	3	8	19	7.6	
MINNEAPOLIS	254	982.4	1012.2	25.3	15.5	20.4	1.1	33.3	24	6.1	1	1	0	13.9	69	203	103	67	15	7	0	0	1.0	16	[illegible]	NW	31	3	7	20	7.3	64
ROCHESTER	399	965.8	1012.9	25.1	14.4	19.7	0.8	31.1	[illegible]	6.7	1	0	0	14.4	73	99	-20	26	14	8	0	0	1.7	19	13.0	27	21+	2	10	18	7.3	
ST CLOUD	313	975.6	1012.6	24.7	12.2	18.5	0.3	31.7	30+	3.3	1	0	0			147	27	32	16		0	0						4	9	17	7.3	
MISSISSIPPI																																
JACKSON	94	1004.4	1015.9	31.2	20.2	25.7	-0.6	33.9	18	13.9	3	11	0	21.1	80	189	103	43	14	11	0	0	1.1	17	15.2	SE	19	9	12	9	5.4	57

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure		Temperature								No of days			Average relative humidity	Precipitation			No of days		Snow, Ice pellets		Wind		Fastest mile (1.6 kilometers)			No of days (sunrise to sunset)			Sky cover, tenths (sunrise to sunset)	Possible sunshine
		Station Ø	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min 0 C or lower	Average dew point		Total	Departure from normal	Greatest in 24 hours	25 mm or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10		
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
MISSISSIPPI																																
MERIDIAN	88	1005.4	1016.4	31.6	20.7	26.2	-0.1	33.3	30+	15.6	3	15	0	20.0	73	139	46	47	10	7	0	0	0.8	13	10.3	22	14	5	15	10	6.0	
MISSOURI																																
COLUMBIA REGIONAL	270	982.7	1014.4	27.9	16.9	22.4	-0.4	31.7	29+	10.0	2	0	0	16.1	69	97	-19	75	8	10	0	0	1.9	18	12.5	NW	16	7	11	12	6.0	74
KANSAS CITY	309	976.6	1012.6	28.8	18.0	23.4	0.2	33.3	28+	10.0	2	6	0	17.8	75	62	-78	24	12	12	0	0	2.0	19	13.9	SE	16	8	11	11	5.8	69
ST JOSEPH	247			29.4	17.8	23.6	0.3	34.4	28	10.0	2	8	0			152	-13		12													
ST LOUIS	163	994.6	1014.6	29.4	18.3	23.8	0.0	34.4	20+	10.6	1	9	0	18.3	72	96	-16	38	9	11	0	0	1.7	20	14.3	SE	17	5	17	8	5.7	69
SPRINGFIELD	386	969.9	1014.3	30.1	17.1	23.6	0.5	32.9	20+	7.8	1	13	0	17.8	74	287	167	123	12	16	0	0	2.3	18	14.3	E	9	10	11	9	5.2	75
MONTANA																																
BILLINGS	1087	888.9	1011.3	22.2	9.1	15.7	-1.3	31.1	24	5.6	1	0	0	5.6	53	41	-25	18	13	3	0	0	1.7	28	17.9	NW	25	6	12	12	6.3	61
GLASGOW	696	929.6	1010.1	24.1	9.7	16.9	0.2	32.8	25+	4.4	1	2	0	7.8	60	30	-39	11	15	5	0	0	1.3	34	15.6	28	26+	8	10	12	5.8	
GREAT FALLS	1116	886.2	1012.2	21.2	8.6	14.9	-1.1	28.9	24+	5.6	10+	0	0	5.6	60	114	35	30	18	6	0	0	2.3	25	13.9	SW	5	2	10	18	7.5	57
HAVRE	788	919.7		23.1	8.9	16.0	-0.7	31.1	24	2.2	1	0	0			84	19	33	12	10	0	0			15.2	W	7	8	10	12	6.3	74
HELENA	1167	879.4	1013.2	20.6	7.1	13.8	-1.3	28.3	24	1.1	10	0	0	3.3	53	72	11	36	11	2	0	0	2.1	29	19.2	W	30	3	8	19	7.5	56
KALISPELL	904	910.3	1014.0	20.6	6.3	13.4	-0.4	28.3	24	0.0	29	0	1	6.1	66	50	-15	21	12	5	0	0	0.8	19	10.7	31	7	5	4	21	7.6	
MILES CITY	801	918.4	1009.9	24.5	11.1	17.8	-0.5	33.9	25+	5.0	1	2	0	9.4	62	93	9		15	7	0		1.7	31								
MISSOULA	972	903.2	1014.3	20.6	5.4	13.0	-1.9	27.2	12+	0.6	17	0	0	6.7	68	51	-3	30	14	5	0	0	1.3	30	15.2	NW	24	3	11	16	7.4	44
NEBRASKA																																
GRAND ISLAND	561	946.8	1011.7	26.7	14.4	20.6	-0.9	32.8	30	6.7	1	1	0	13.9	69	174	62	58	9	10	0	0	1.3	19	23.2	32	18	7	17	6	5.3	
LINCOLN	359	969.9	1011.8	27.9	15.3	21.6	-0.6	35.0	30	7.2	2	4	0	15.6	71	78	-49	20	11	10	0	0	1.3	18	15.2	SW	18	7	15	8	6.1	70
NORFOLK	471			26.9	14.8	20.9	-0.2	33.9	30	7.8	1	3	0			194	70	51	17		0	0						6	15	9	6.0	
NORTH PLATTE	846	915.3	1011.4	26.6	10.8	18.7	-1.3	31.7	30+	4.4	12+	0	0	12.2	68	155	60	55	12	12	0	0	1.3	15	21.0	SE	25+	6	15	9	5.4	68
OMAHA	298	977.0	1011.8	28.8	16.2	22.5	0.2	34.4	28	7.8	2	8	0	16.7	70	109	-16	34	16	12	0	0	1.2	18	15.2	W	2	5	15	10	6.2	61
SCOTTSBLUFF	1206	877.1	1010.3	27.1	10.2	18.7	-0.2	36.1	29+	3.3	17+	6	0	7.2	52	37	-48	9	12	10	0	0	0.2	4	17.4	8	28	10	14	6	5.0	
VALENTINE	789			26.6	12.0	19.3	-0.1	35.6	30	4.4	2	5	0			61	-30	19	12		0	0			32.6	SE	18	12	9	9	5.1	76
NEVADA																																
ELKO	1539	843.9	1012.4	24.7	6.1	15.4	0.1	31.7	15	1.1	26	0	0	0.6	42	10	-15	3	6	2	0	0	1.6	26	12.1	19	24	13	8	9	4.5	
ELY	1906	808.3	1010.5	24.2	3.7	14.0	-0.3	30.6	13	-3.3	26+	0	6	-0.6	41	8	-16	5	5	5	T	0	1.8	22	24.1	SE	24	10	10	10	4.9	87
LAS VEGAS	659	933.3	1007.7	36.3	21.2	28.8	0.8	41.7	16+	15.0	25	26	0	-2.2	14	T	-2	T	0	0	0	0	2.3	22	18.8	NW	8	25	4	1	2.0	93
RENO	1342	865.2	1012.5	28.0	5.7	16.9	0.5	35.6	14+	1.1	26	5	0	2.2	39	5	-5	4	4	2	T	T	2.1	28	17.4	W	24	20	4	6	3.3	99
WINNEMUCCA	1311	866.9	1011.7	26.6	6.4	16.6	0.1	34.4	15	0.0	26	8	1	-0.6	35	18	-8	8	5	0	0	0	1.7	29	13.0	W	1	16	6	8	4.0	85
NEW HAMPSHIRE																																
CONCORD	104	1004.1	1016.5	25.1	11.6	18.3	0.2	34.4	23	0.0	10	2	1	14.4	79	98	13	34	12	2	0	0	0.4	20	11.2	NE	29	6	8	16	6.5	60
MT WASHINGTON OBS	1909			9.8	3.7	6.8	-0.3	17.8	28	-5.0	9	0	6			171	6	37	16	1	28	25			24.0Y	W	19	3	4	23	8.1	34
NEW JERSEY																																
ATLANTIC CITY	20	1014.6	1017.1	25.7	16.1	20.9	-0.4	32.2	24+	7.8	10+	2	0	17.8	84	98	12	47	9	5	0	0	0.9	21	9.4	31	7+	5	13	12	6.3	63
ATLANTIC CITY I	3			23.4	17.4	20.4	-0.1	31.7	19	12.8	9+	0	0			94	23	36	8						11.2	NE	30					
NEWARK	2	1015.6	1016.6	26.4	17.6	22.0	0.1	34.4	24	11.7	10	3	0	15.0	70	163	87	44	11	9	0	0	0.4	21	12.1	29	6	3	13	14	7.0	
TRENTON	17			26.6	17.2	21.9	0.1	33.9	24	11.1	10	2	0			143	61	46	13		0	0			12.5	NW	24+	8	10	12	6.2	48
NEW MEXICO																																
ALBUQUERQUE	1619	837.1	1008.6	32.1	13.4	22.8	-0.9	35.6	25+	6.7	11	17	0	-0.6	24	T	-13	T	0	2	0	0	1.1	21	21.5	N	16	20	7	3	2.8	85
CLAYTON	1515			28.2	12.4	20.3	-0.3	33.3	16	4.4	11	6	0			39	-5	24	8		0	0						15	10	5	3.8	
ROSWELL	1112	887.2	1008.1	33.8	15.9	24.8	-0.2	38.3	14	10.6	11	24	0	8.9	43	14	-17	7	2	4	0	0	1.6	17	22.6	NW	23	19	11	0	2.9	79
NEW YORK																																
ALBANY	84	1006.1	1016.7	24.3	12.4	18.4	-1.3	32.8	24	2.2	10	1	0	12.9	70	97	20	24	10	4	0	0	1.3	20	11.6	E	29+	3	14	13	6.6	56
BINGHAMTON	485	959.0	1017.1	23.9	14.4	19.2	0.9	31.7	23	5.6	10	0	0	14.4	76	74	-18	25	14	4	0	0	1.1	22	11.6	NW	20	4	12	14	6.9	53
BUFFALO	215	990.2	1015.6	24.7	15.2	20.0	1.3	31.7	15	8.9	10	0	0	14.4	75	93	36	28	15	5	0	0	1.7	21	15.2	SW	15	5	12	13	6.7	64
NEW YORK C	40	1012.9	1016.1	25.7	17.0	21.4	-0.6	33.9	24	11.7	10	1	0	15.0	74	193	117	51	11	8	0	0	0.2	22	7.6	N	20					43
NEW YORK KENNEDY	4	1016.3	1016.9	24.0	17.1	20.6	-0.3	32.8	19	12.8	10	1	0	15.6	78	179	104	59	10	7	0	0	0.9	18	16.1	33	6	5	12	13	6.5	
NEW YORK LA GUARDIA	3	1015.6	1016.8	24.4	17.4	20.9	-1.0	32.8	24	12.8	10	1	0	14.4	70	183	109	56	11	8	0	0	0.3	13	13.4	NW	19	3	13	14	6.7	
ROCHESTER	167	995.6	1015.7	24.9	14.0	19.5	0.1	32.2	23	6.7	10	1	0	14.4	75	136	71	28	15	7	0	0	1.7	22	12.5	SW	18+	3	14	13	6.9	69
SYRACUSE	125	1001.0	1015.8	25.2	13.8	19.5	0.1	33.3	23	6.1	10	1	0	13.9	72	104	25	37	12	7	0	0	0.9	22	13.4	SW	23	5	12	13	6.7	50
NORTH CAROLINA																																
ASHEVILLE	652	943.1	1018.3	27.0	13.8	20.4	-1.0	31.1	16	9.4	9	0	0	16.1	79	54	-47	18	7	4	0	0	0.4	35	10.3	11	20	6	17	7	5.6	77

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation, ground	Pressure		Temperature											Average relative humidity	Precipitation							Wind					No. of days (sunrise to sunset)			Sky cover, tenths (sunrise to sunset)	Possible sunshine
												No of days							No of days		Snow, Ice pellets				Fastest mile (1.6 kilometers)							
		Station	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min 0 C or lower	Average dew point		Total	Departure from normal	Greatest in 24 hours	25 mm or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10		
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
NORTH CAROLINA																																
CAPE HATTERAS	2	1016.6	1017.1	28.3	21.1	24.7	1.2	32.2	18	13.9	23	1	0	19.4	74	112	-11	47	5	0	0	0	0.8	16	10.7	13	26	1	19	10	5.4	57
CHARLOTTE	224	990.2	1017.1	29.3	18.4	23.9	-0.5	32.8	19+	14.4	8	3	0	16.1	66	47	-47	12	9	6	0	0	0.2	5	17.9	SW	15	7	16	7	5.6	70
GREENSBORO	273	986.1	1017.1	29.9	18.0	24.0	0.4	35.0	19	12.2	9+	10	0	18.3	73	43	-56	25	10	5	0	0	0.1	23	13.9	[illegible]	5	8	13	9	5.4	71
RALEIGH	132	1001.0	1016.8	29.6	16.7	23.2	-0.4	33.3	25+	10.0	8	6	0	17.2	72	42	-51	15	7	4	0	0	0.1	28	9.4	23	15	9	13	8	5.3	73
WILMINGTON	9	1015.6	1016.9	30.8	21.1	25.9	0.7	35.6	20+	15.6	9	11	0	20.6	76	181	39	42	11	7	0	0	0.6	15	14.3	SE	20	8	9	13	6.0	[illegible]
NORTH DAKOTA																																
BISMARCK	502	950.9	1009.6	23.8	10.8	17.3	-0.3	31.1	25	2.2	1	0	0	11.1	68	117	26	36	15	11	0	0	0.5	15	15.6	NE	5	5	13	12	6.3	63
FARGO	273	978.7	1011.0	24.2	12.7	18.4	0.3	30.0	28	5.0	7	0	0	13.9	77	239	157	102	16	11	0	0	1.6	18	22.4	N	28	5	13	12	6.6	54
WILLISTON	579	942.4	1009.9	23.4	10.0	16.7	-0.3	31.7	25+	4.4	1	0	0	10.0	68	87	4	49	15	14	0	0	0.9	31	14.8		5	7	10	13	6.1	
OHIO																																
AKRON	368	972.2	1016.2	25.9	15.7	20.8	0.7	31.1	29+	6.7	9	0	0	15.6	73	70	-19	23	16	11	0	0	1.3	21	11.2	24	15	3	16	11	6.5	
CINCINNATI ABBE OB	232			28.9	17.4	23.2	0.4	35.6	20	10.6	8	5	0			86	-13	35	9						8.5	SW	17					65
CLEVELAND	237	987.1	1015.7	25.8	16.2	21.0	1.1	32.2	22	5.6	9	1	0	16.1	76	104	21	27	17	11	0	0	1.3	22	15.6	SW	15	5	14	11	6.2	58
COLUMBUS	247	986.5	1016.0	27.9	16.9	22.4	1.1	33.9	13	9.4	9	3	0	17.8	77	90	-15	21	14	13	0	0	1.2	21	16.5	SE	15	5	15	10	6.0	52
DAYTON	303	987.0	1015.7	28.1	15.9	22.0	0.2	33.9	20+	8.9	9+	6	0	16.7	73	57	-42	20	7	4	0	0	1.7	21	12.5	S	15	9	5	16	6.2	62
MANSFIELD	395			25.3	15.2	20.3	-0.7	30.6	22	6.7	9	0	0	15.6	77	60	-29	19	11	9	0	0	1.6	22	12.5	22	15	4	15	11	6.2	
TOLEDO	204	990.2	1015.0	25.9	15.2	20.6	0.1	32.8	22	7.8	9+	1	0	15.6	75	107	21	31	12	7	0	0	1.0	23	13.0	[illegible]	6	6	16	8	6.0	54
YOUNGSTOWN	359	973.9	1016.2	25.3	15.3	20.3	0.9	31.1	23	6.7	9	0	0	15.0	74	70	-21	20	13	9	0	0	1.2	22	14.3	23	5	2	14	14	7.0	
OKLAHOMA																																
OKLAHOMA CITY	392	967.5	1012.6	29.3	18.5	23.9	-0.9	33.3	14+	12.8	12+	3	0	18.3	72	122	15	51	10	13	0	0	3.6	15	19.2	SW	6	8	15	7	5.3	57
TULSA	199	987.5	1013.3	29.8	19.1	24.4	-0.7	33.3	6	12.8	11+	3	0	20.0	78	171	52	43	13	11	0	0	3.3	18	19.7	[illegible]	16	5	18	7	5.7	60
OREGON																																
ASTORIA	2	1019.3	1020.1	16.8	9.4	13.1	-0.5	22.2	10+	4.4	9	0	0	9.3	75	51	-12	15	17	0	0	0	2.5	26	9.4	30	9+	2	10	18	8.0	
BURNS	1265			22.7	6.8	14.8	-0.2	29.4	14+	2.2	26+	0	0			10	-15	4	4		0	0			18.3Y	[illegible]	30	7	14	9	5.5	
EUGENE	109	1005.1		22.8	9.6	16.2	-0.2	31.1	10	5.0	7	0	0			22	-10	17	6	0	0	0	1.2	33	9.8	22	1	5	9	16	7.1	
MEDFORD	396	969.5	1016.7	26.8	8.7	17.7	-0.2	35.0	14+	3.9	8	7	0	5.6	49	10	-13	9	3	2	0	0	1.7	32	8.0	34	16	12	10	8	4.6	
PENDLETON	452	961.7	1014.7	25.9	11.6	18.8	0.1	34.4	1	6.7	29+	4	0	5.0	44	7	-19	3	7	2	0	0	3.5	27	13.0	27	24	8	9	13	6.0	
PORTLAND	6	1017.3	1018.4	22.2	10.9	16.6	-0.1	32.2	1	7.2	8	1	0	7.4	63	29	-12	15	10	0	0	0	2.2	33	15.2	SW	25	4	8	18	7.2	58
SALEM	60	1011.2	1018.6	22.3	8.6	15.5	-0.7	31.7	10	2.2	8	0	0	8.3	67	21	-15	10	8	0	0	0	1.2	30	7.6	18	25	6	9	15	6.6	
SEXTON SUMMIT	1169	885.2	1016.3	18.8	7.0	12.9	-0.1	28.9	10	0.6	24	0	0			8	-24	7	3		T	0			13.9		12+	13	8	9	4.8	
PACIFIC AREA																																
GUAM [illegible]	110			31.6	22.8	27.2	0.6	32.8	7	20.0	1	10	0			62	-69	20	19		0	0			10.7	SE	8					85
JOHNSTON	2	1014.2	1014.8	27.8	24.1	25.9	-0.8	28.3	25+	21.7	17	0	0	20.6	73	8	-18	2	9	0	0	0	7.1	9	14.3	E	24	5	11	14	6.7	74
KOROR	29	1005.8		30.6	24.1	27.3	-0.2	32.2	21+	23.3	30+	2	0			412	63	40	28	1	0	0	1.7	13	9.8	S	23+	0	0	30	9.8	42
KWAJALEIN	2	1009.5		29.8	24.7	27.3	-0.4	30.6	27+	22.2	5	0	0			355	103	108	26	1	0	0	5.6	7	11.6	E	6	0	6	24	8.7	
MAJURO	3	1009.5		28.8	24.2	26.5	-0.7	30.0	6	22.2	26	0	0			448	139	53	27		0	0	4.4	8	13.4	E	26	0	2	28	9.4	27
PAGO PAGO	4	1012.2	1012.5	28.8	23.6	26.2	0.1	30.0	26+	20.6	28+	0	0	22.8	82	132	-107	49	19	0	0	0	4.3	9	13.9	E	6	6	15	9	6.2	45
PONAPE	37			30.0	23.5	26.8	-0.2	31.7	30+	21.1	15	0	0			478	81	63	27	2	0	0			11.6	NE	22	1	1	28	9.4	25
TRUK MOEN IS ARPT	2	1009.5		30.2	24.4	27.3	-0.1	31.7	12+	22.2	26+	0	0			409	90	78	24	1	0	0	2.9	7	11.6	E	8	0	0	30	9.8	31
WAKE	3	1014.6	1014.7	31.5	24.4	27.9	0.4	32.2	26+	22.8	13	4	0	21.7	71	24	-38	6	17	1	0	0	5.1	9	12.5	SE	11	11	13	6	4.9	76
YAP	13	1007.8		30.3	22.9	26.6	-1.0	31.1	27+	18.3	9	0	0			271	-6	61	27	3	0	0	3.1	10	10.7	SE	5	0	2	28	9.3	64
PENNSYLVANIA																																
ALLENTOWN	118	1003.1	1016.8	25.4	15.9	20.7	-0.2	33.9	24	10.6	11+	1	0	13.9	68	129	41	46	14	7	0	0	0.5	25	10.3	32	3	4	13	13	6.9	
ERIE	223	989.5	1015.9	24.2	15.1	19.7	1.6	30.6	22	8.9	9	0	0	15.6	78	111	22	50	12	5	0	0	1.7	22	16.5	36	4	7	11	12	6.3	
HARRISBURG	103	1004.7	1017.2	26.3	16.7	21.5	-0.7	33.3	19	10.0	9	2	0	16.7	77	165	86	61	11	5	0	0	0.5	26	13.4	SW	5	3	15	12	6.1	50
PHILADELPHIA	2	1015.9	1016.8	27.2	17.4	22.3	-0.1	33.3	19	11.7	10+	2	0	16.1	72	192	98	56	12	8	0	0	0.6	23	15.2	[illegible]	19+	10	12	8	5.5	60
PITTSBURGH	347	973.2	1016.7	25.1	14.7	19.9	-0.4	30.0	24+	5.0	9	0	0	12.8	66	116	28	37	12	7	0	0	1.1	25	13.4	24	26	3	17	10	6.5	49
SCRANTON	283	982.7	1016.6	25.1	15.8	20.4	0.5	32.2	23	9.4	10	1	0	14.4	72	143	57	36	18	6	0	0	0.7	22	11.6	[illegible]	3	6	10	14	6.6	48
WILLIAMSPORT	160	997.6	1016.6	24.5	14.3	19.4	-1.1	30.0	24+	6.1	10	0	0			133	51	45	14	6	0	0	0.6	26	9.8	17	15	5	12	13	6.6	
RHODE ISLAND																																
BLOCK ISLAND	34			20.9	14.6	17.8	0.5	26.7	19	9.4	9+	0	0			128	72	71	8		0	0										
PROVIDENCE	16	1014.6	1015.8	23.6	14.2	18.9	-0.2	33.9	24	7.2	10	2	0	13.3	72	120	53	37	12	3	0	0	0.7	23	10.3	[illegible]	30	5	10	15	7.0	50
SOUTH CAROLINA																																
CHARLESTON	12	1014.9	1016.9	30.9	20.8	25.8	0.3	34.4	6	16.7	4	9	0	20.0	74	151	-9	42	13	10	0	0	0.0	29	16.1Y	[illegible]	18	6	9	15	6.8	67

CLIMATOLOGICAL DATA
METRIC UNITS

State and Station	Elevation (ground)	Pressure Station	Pressure Sea level	Temperature Average maximum	Temperature Average minimum	Temperature Average	Temperature Departure from normal	Temperature Highest	Temperature Date	Temperature Lowest	Temperature Date	Temperature No. of days Max 32.2 °C or above	Temperature No. of days Min. 0 C or lower	Temperature Average dew point	Average relative humidity	Precipitation Total	Precipitation Departure from normal	Precipitation Greatest in 24 hours	Precipitation No. of days 25 mm or more	Precipitation No. of days With thunderstorms	Precipitation Snow, Ice pellets Total	Precipitation Snow, Ice pellets Maximum depth on ground	Wind Resultant speed	Wind Resultant direction	Wind Fastest mile (1.6 kilometers) Speed	Wind Fastest mile (1.6 kilometers) Direction	Wind Fastest mile (1.6 kilometers) Date	No. of days (sunrise to sunset) Clear, 0-3	No. of days (sunrise to sunset) Partly cloudy, 4-7	No. of days (sunrise to sunset) Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
SOUTH CAROLINA																																
CHARLESTON U	3			30.6	23.2	26.9	0.7	35.0	6	21.7	24	9	0					14				0			14.3	E	11					
COLUMBIA	65	1008.8	1016.6	31.4	19.5	25.4	-0.6	35.6	18	15.0	24	14	0	20.0	76	72	-25	22	10	9	0	0	0.2	10	13.0	2	18	10	9	11	5.7	80
GRNVLLE-SPRTNBRG	292	982.7	1016.9	29.4	17.7	23.6	-0.8	33.3	18	13.9	8	3	0	17.2	72	137	34	59	10	6	0	0	0.4	35	8.9	NE	18	9	16	5	5.0	72
SOUTH DAKOTA																																
ABERDEEN	395	964.1	1010.2	25.7	14.3	20.1	1.5	33.3	30	7.8	3+	2	0	15.0	73	134	42	51	15	10	0	0	0.9	17	15.6	6	29	8	10	12	6.3	
HURON	390	964.4	1010.2	26.6	12.3	19.4	-0.1	35.6	30	2.2	1	4	0	13.3	71	87	-8	41	12	8	0	0	1.7	17	17.9	SE	19	9	10	11	6.0	61
RAPID CITY	964	901.8	1011.0	23.9	9.6	16.8	-1.1	31.7	22	2.8	2	0	0	9.4	66	143	50	43	15	10	0	0	1.2	34	25.5	NW	9	11	12	7	5.2	78
SIOUX FALLS	432	961.4	1011.9	26.1	13.4	19.8	0.0	33.3	30+	2.8	1	3	0	13.3	69	114	4	28	13	10	0	0	1.4	21	12.5	25	20+	3	15	12	6.4	
TENNESSEE																																
BRISTOL	459	964.1	1017.4	28.0	15.4	21.7	-0.7	32.2	25+	10.0	9	2	0	17.2	81	81	-8	15	12	8	0	0	0.1	27	17.4	26	5	9	13	8	5.1	
CHATTANOOGA	203	992.2	1016.6	29.2	16.1	22.7	-1.8	31.7	30+	11.1	3+	0	0	17.8	77	100	6	25	9	10	0	0	0.6	22	15.2	NE	20+	5	14	11	5.7	65
KNOXVILLE	299	982.7	1017.2	29.5	17.8	23.7	-0.5	32.8	19	12.8	9+	2	0	18.3	77	62	-30	14	13	9	0	0	0.9	29	15.6	7	20	6	15	9	5.6	79
MEMPHIS	79	1005.4	1015.6	30.9	21.1	26.0	0.1	33.3	30+	15.0	1	15	0	18.9	68	61	-26	23	9	6	0	0	1.8	18	13.4	29	15	11	10	9	5.3	77
NASHVILLE	180	994.6	1015.8	30.0	18.9	24.4	-0.3	33.3	30	12.2	2	8	0	18.3	72	56	-29	22	5	5	0	0	1.4	19	15.2	S	15	11	13	6	5.0	
OAK RIDGE R	276			28.7	15.8	22.2	-1.2	31.7	19	10.[illegible]	8	0	0			142	42	56	11		0	0			22.4Y		5	9	13	8	5.5	
TEXAS																																
ABILENE	544	949.9	1011.2	31.7	19.9	25.8	-1.0	37.2	14	12.8	12	19	0	17.2	63	43	-29	37	6	7	0	0	4.9	17	24.1	N	9	12	11	7	4.8	75
AMARILLO	1098	889.3	1009.5	30.2	15.7	22.9	-0.7	35.6	16+	8.3	11	9	0	13.0	60	105	18	27	9	15	0	0	3.5	16	17.9	15	19	14	13	3	4.0	75
AUSTIN	182	991.5	1013.0	31.3	21.9	26.6	-0.9	33.3	19+	13.9	1	17	0	21.7	77	180	100	47	9	12	0	0	3.0	17	14.3	E	30	6	16	8	5.5	57
BROWNSVILLE	6	1011.9	1012.6	32.5	23.7	28.1	-0.1	34.4	30	15.6	1	25	0	23.3	77	56	-15	33	6	8	0	0	4.9	14	15.2	N	10	5	17	8	5.8	77
CORPUS CHRISTI	12	1011.5	1013.1	33.3	23.8	28.6	0.6	35.0	30+	14.4	1	26	0	23.3	77	33	-35	27	5	5	0	0	5.1	14	15.6	SE	18+	5	17	8	5.8	74
DALLAS - FORT WORTH	168	992.2	1013.0	32.8	21.5	27.2	0.2	35.6	17+	13.9	1	23	0	19.4	67	50	-28	19	7	4	0	0	3.0	17	11.6	18	17	6	17	7	5.4	
DEL RIO	313	975.3	1010.3	34.2	22.0	28.1	-0.9	39.4	15	15.6	1	25	0	19.4	65	29	-23	17	4	5	0	0	5.0	12	11.2	12	20	7	15	8	5.3	
EL PASO	1194	879.8	1007.4	36.9	17.4	27.2	0.3	40.6	15+	12.2	22+	30	0	3.3	24	T	-15	T	0	0	0	0	1.6	24	11.2	25	16	27	3	0	1.5	97
GALVESTON	2			29.4	24.9	27.2	-0.2	32.8	29	21.7	10+	1	0			92	-11	30	8		0	0			12.1	SE	17+					61
HOUSTON INTERCON	29	1010.5	1014.3	31.7	21.6	26.7	-0.6	34.4	7	12.8	1	18	0	21.7	77	191	76	57	11	11	0	0	2.2	14	12.5	29	10	7	10	13	6.3	49
LUBBOCK	992	901.5	1009.6	32.8	17.6	25.2	0.2	38.9	16+	10.6	11	18	0	12.2	53	46	-25	13	7	7	0	0	3.6	17	17.4	25	9	14	14	2	3.8	77
MIDLAND	869	913.6	1009.2	34.7	19.0	26.8	0.2	40.6	16	10.6	11+	26	0	15.0	54	52	14	38	4	10	0	0	3.9	17	17.9	32	10	17	10	3	3.4	
PORT ARTHUR	5	1014.2		31.3	21.9	26.6	-0.5	33.9	21+	13.9	1	11	0	22.2	82	126	4	39	10	11	0	0	2.2	16	11.6	SW	27+	5	12	13	6.3	50
SAN ANGELO	580	945.8	1010.6	32.1	20.9	26.5	-1.1	37.8	14	13.9	12	20	0	17.2	62	59	11	31	6	5	0	0	4.8	18	15.6	14	27+	10	14	6	4.8	
SAN ANTONIO	240	985.4	1013.0	31.3	22.1	26.7	-1.2	33.9	16+	12.8	1	13	0	20.6	74	117	46	55	7	9	0	0	3.4	15	14.8	NW	10	5	18	7	5.8	58
VICTORIA	32	1002.5	1013.5	32.5	23.6	28.1	0.3	34.4	23	17.2	1	22	0	23.3	80	195	111	102	8	8	0	0	3.2	16	21.5Y	N	28	2	16	12	6.4	
WACO	153	995.3	1013.1	31.6	21.4	26.5	-1.2	33.9	10+	13.3	1	18	0	19.4	69	72	3	28	5	4	0	0	4.3	16	13.0	17	17	4	16	10	6.0	
WICHITA FALLS	303	976.3	1011.9	33.0	19.5	26.3	-1.1	37.8	14	13.3	1	22	0	18.3	65	43	-43	27	5	8	0	0	4.1	14	19.7	27	7	11	15	4	4.6	
UTAH																																
MILFORD	1533	844.6		26.9	6.8	16.9	-1.6	33.3	13	0.0	11	2	1			18	4	14	5		0	0			20.6	SW	24	15	9	6	4.2	77
SALT LAKE CITY	1286	870.0	1011.6	25.6	10.8	18.2	-0.8	33.3	30	6.1	26	4	0	5.0	47	46	13	22	10	9	0	0	1.5	16	17.4	NW	2	11	10	10	5.2	75
WENDOVER	1291	868.6	1011.5	26.0	13.3	19.7	-1.0	35.0	30	6.1	19	3	0	1.1	32	11	-8	4	8		0	0	0.4	35				8	13	9	5.2	
VERMONT																																
BURLINGTON	101	1003.7	1016.1	24.9	13.2	19.1	0.7	33.0	23	3.9	9	1	0	13.3	70	63	-25	19	14	2	0	0	1.1	18	15.6	N	19	6	9	15	6.6	61
VIRGINIA																																
LYNCHBURG	279	984.1		27.8	15.9	21.9	-0.7	32.8	19	8.9	9	2	0			121	34	45	9		0	0			12.5	NW	5	13	10	7	4.6	75
NORFOLK	7	1015.9	1016.0	30.1	19.9	25.0	1.4	35.0	5	15.0	11	7	0	17.2	65	25	-62	14	7	4	0	0	0.9	15	10.3	2	20+	13	10	7	4.7	
RICHMOND	50	1010.5	1016.5	29.1	17.1	23.1	-0.3	35.0	19	10.0	8	6	0	17.2	72	102	12	56	9	8	0	0	0.3	16	15.2	W	5	9	10	11	5.7	69
ROANOKE	350	976.0	1017.3	27.8	16.1	21.9	-0.1	32.8	19	8.3	9	4	0	15.6	69	39	-50	13	6	3	0	0	0.4	30	14.3	28	5	12	10	8	5.2	
WALLOPS ISLAND	3			26.4	19.3	22.9	1.0	32.8	19	12.2	9	2	0			59	-29	28	7		0	0			10.8Y	NNW	20	8	15	7	5.7	
WASHINGTON																																
OLYMPIA	59	1010.8		20.4	7.9	14.2	-0.8	31.7	1	1.7	8	0	0			18	-22	10	7	0	0	0			8.0	23	25+	3	8	19	7.7	
QUILLAYUTE	55	1011.9		16.4	7.4	11.9	-0.9	26.7	30	3.9	30+	0	0			77	-12	20	16	0	0	0	1.4	26	7.6	NW	9	1	8	21	8.1	25
SEATTLE U	6			19.6	11.1	15.3	-0.9	31.1	1	8.3	29+	0	0			32	-8	10	7		0	0			15.6Y	SSW	4					
SEATTLE-TACOMA	122	1002.0	1018.4	20.9	10.9	15.9	0.5	31.1	1	6.1	8	0	0	8.3	65	21	-18	8	9	0	0	0	1.2	24	9.4	SW	14	3	7	20	8.0	49
SPOKANE	718	930.2	1013.2	21.6	8.6	15.1	-1.3	28.9	1	3.9	8	0	0	5.0	54	37	2	11	10	3	0	0	2.3	21	12.1	NE	17+	2	12	16	7.2	58
STAMPEDE PASS R	1206	880.1		10.8	3.8	7.3	-2.2	22.9	1	0.[illegible]	27	0	1			116	15	20	19		T	1002										
WALLA WALLA U	289			24.6	11.9	18.2	-1.3	33.9	1	8.9	29	1	0			12	-18	7	6		0	0			9.8	SW	25+	5	15	10	6.2	60
YAKIMA	321	976.3	1014.5	26.6	8.8	17.7	-0.4	33.3	1	0.6	28	2	0	4.4	44	6	-13	4	5	2	0	0	2.9	31	13.0	30	27+	8	11	11	5.8	

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation ground	Pressure		Temperature								No. of days			Average relative humidity	Precipitation			No. of days		Snow, Ice pellets		Wind		Fastest mile (1.6 kilometers)			No. of days sunrise to sunset			Sky cover, tenths (sunrise to sunset)	Possible sunshine
		Station	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min 0 °C or lower	Average dew point		Total	Departure from normal	Greatest in 24 hours	25 mm. or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear 0-3	Partly cloudy 4-7	Cloudy 8-10		
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
WEST INDIES																																
SAN JUAN P.R.	4	1014.9	1017.4	31.7	24.8	28.3	1.3	35.6		23.3	4	8	0	21.1	68	67	-76	30	12	3	0	0	3.5	10	12.1	E	29+	8	18	4	5.3	65
WEST VIRGINIA																																
BECKLEY	763	931.9	1017.4	24.6	13.8	19.2	-0.4	28.3	10	5.6	9	0	0	15.0	78	117	10	42	13	9	0	0	1.1	20	13.4	14	26	2	16	12	6.7	
CHARLESTON	284	983.1	1016.9	28.0	16.1	22.1	-0.2	32.2	25+	10.0	9	2	0	16.1	72	104	24	41	12	8	0	0	0.7	25	15.6	24	5	4	17	9	5.9	
ELKINS	594	947.9		24.9	12.4	18.7	-0.1	29.4	10	3.9	9	0	0			124	3	44	12		0	0						2	16	12	6.9	
HUNTINGTON	252	985.8	1016.4	28.5	17.2	22.9	0.4	33.3	10	11.1	9	3	0	17.2	74	103	18	32	10	6	0	0	0.9	23	10.3	29	14	1	15	14	6.9	
PARKERSBURG	187			27.4	16.7	22.1	-0.2	30.8	25+	9.4	9	4	0			59	-43	15	13		0	0			17.4	W	17					
WISCONSIN																																
GREEN BAY	214	987.8	1013.2	24.1	12.9	18.5	0.4	31.7	28	4.4	8	0	0	13.2	77	134	47	49	11	8	0	0	0.8	19	13.0	SW	22	2	14	14	6.8	53
LA CROSSE	198	989.5	1013.5	25.5	15.4	20.5	0.2	33.3	24+	7.2	8	4	0	15.0	74	73	-40		13	9	0		0.7	17								
MADISON	262	982.4	1013.4	27.1	14.2	20.7	1.9	33.9	20	5.0	8	5	0	13.9	68	109	-1	28	15	12	0	0	1.2	19	18.8	W	13	4	12	14	6.6	57
MILWAUKEE	205	988.9	1013.9	23.4	14.0	18.7	0.7	31.7	22	6.7	8	0	0	15.0	80	101	10	43	13	7	0	0	1.0	21	14.8	W	13	5	14	11	6.6	58
WYOMING																																
CASPER	1627	836.1	1011.3	23.1	6.7	14.9	-1.7	31.7	30+	2.2	11	0	0	3.9	56	24	-13	7	10	8	0	0	2.4	25	14.3	35	16	9	9	12	5.7	
CHEYENNE	1867	811.7	1010.4	21.5	6.9	14.4	-1.9	29.4	30	1.7	17	0	0	2.2	43	38	-23	21	8	6	0	0	2.2	29	18.8	W	25+	9	13	8	5.3	64
LANDER	1696	828.0	1011.1	22.0	7.0	14.5	-1.7	30.0	30	2.2	2	0	0	1.1	46	44	-1	33	9	6	0	0	1.3	23	21.0	SW	25	9	12	9	5.3	63
SHERIDAN	1208	876.7	1012.0	22.1	7.3	14.7	-1.4	28.9	24	2.2	1	0	0	7.7	67	116	4	46	15	7	0	0	1.3	31	13.0	NW	8	7	12	11	5.8	59

MONTHLY AND SEASONAL HEATING DEGREE DAYS

(Base 65°F)

1974-1975

State and Station	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total for Season	Normals July-June
ALABAMA														
BIRMINGHAM	0	0	19	159	378	542	493	412	361	190	2	0	2556	2844
HUNTSVILLE	0	0	33	181	414	646	587	537	520	199	3	0	3120	3302
MOBILE	0	0	0	58	215	336	276	185	183	70	0	0	1323	1684
MONTGOMERY	0	0	5	115	315	452	385	303	269	122	2	0	1968	2269
ALASKA														
ANCHORAGE	235	263	452	937	1263	1425	1643	1454	1313	954	575	354	10868	10911
ANNETTE	298	200	266	564	776	803	1062	965	920	727	550	423	7554	7053
BARROW	795	695	956	1818	2180	2848	2841	2202	2246	2085	1417	934	21017	20265
BARTER ISLAND	837	848	1028	1846	2299	2924	2883	2344	2261	2052	1349	894	21565	19994
BETHEL	318	258	460	1197	1619	2139	2060	1796	1695	1332	778	456	14108	13203
BETTLES	192	260	543	1480	2257	2615	2690	1997	1829	1403	605	210	16081	15925
BIG DELTA	165	275	464	1319	1815	2231	2387	1840	1605	1075	481	251	13908	13698
COLD BAY	460	360	466	756	917	1157	1252	1149	1176	984	816	557	10050	9865
FAIRBANKS	85	195	402	1342	1935	2370	2497	1918	1620	1028	347	69	13808	14345
GULKANA	261	331	573	1077	1620	1976	2271	1909	1693	1039	629	389	13768	13938
HOMER	368	336	455	817	1052	1261	1439	1293	1199	960	703	506	10389	10364
JUNEAU	349	315	437	690	851	957	1296	1129	1063	791	541	402	8821	9007
KING SALMON	288	245	427	971	1339	1765	1869	1710	1560	1192	785	529	12680	11582
KODIAK	386	276	427	758	952	1143	1220	1165	1148	946	800	586	9807	8860
KOTZEBUE	353	297	512	1406	1868	2550	2323	1928	1855	1678	1129	819	16718	16039
MC GRATH	173	230	461	1368	1936	2442	2470	2002	1798	1270	633	321	15104	14487
NOME	435	419	590	1255	1649	2214	2038	1760	1799	1545	960	673	15337	14325
ST. PAUL ISLAND	604	539	598	882	1053	1337	1462	1389	1399	1120	1013	799	12195	11119
SUMMIT	398	441	603	1279	1630	1932	2035	1715	1718	1293	840	549	14433	14368
TALKEETNA	249	273	481	1006	1399	1696	1888	1576	1487	1019	638	369	12081	11708
UNALAKLEET	302	274					2091	1763	1634	1346	841	591		
YAKUTAT	392	348	442	705	884	1023	1278	1134	1183	905	678	529	9501	9533
ARIZONA														
FLAGSTAFF	19	34	195	522	841	1178	1150	1041	978	856	536	231	7581	7322
PHOENIX	0	0	0	21	112	439	388	301	191	107	4	0	1563	1552
TUCSON	0	0	0	53	218	552	465	393	299	217	29	0	2226	1752
WINSLOW	0	0	44	260	667	1099	1192	763	662	518	204	4	5413	4733
YUMA	0	0	0	12	45	359	295	220	135	86	5	0	1157	1005
ARKANSAS														
FORT SMITH	0	0	54	113	465	761	718	699	562	217	10	0	3599	3336
LITTLE ROCK	0	0	23	111	401	634	630	566	499	196	5	0	3065	3354
CALIFORNIA														
BAKERSFIELD	0	0	0	26	244	558	559	294	244	192	30	0	2147	2185
BISHOP	0	0	6	277	568	864	787	654	639	552	147	22	4516	4313
BLUE CANYON	85	24	4	296	572	821	731	816	952	870	359	157	5687	5704
EUREKA U	222	220	274	360	407	501	587	469	532	547	417	347	4883	4679
FRESNO	0	0	0	59	350	628	661	419	409	325	53	3	2907	2650
LONG BEACH	0	0	0	27	87	331	254	180	246	227	63	2	1417	1606
LOS ANGELES	0	0	0	26	100	279	258	258	278	243	117	23	1582	1819
LOS ANGELES U	0	0	0	25	73	268	243	254	283	262	75	21	1504	1245
MT SHASTA R	79	38	50	400	694	927	947	853	862	753	324	152	6079	5890
OAKLAND	91	69	49	41	232	393	464	349	347	362	159	117	2673	2909
RED BLUFF	6	0	0	69	404	645	630	482	454	375	65	4	3134	2688
SACRAMENTO	7	0	0	44	347	569	661	435	449	389	69	1	2971	2843
SANDBERG R	23	1	0	269	473	789	689	672	791	733	266			
SAN DIEGO	0	0	0	14	97	265	273	237	225	182	83	10	1386	1507
SAN FRANCISCO	83	54	101	117	329	499	540	387	415	424	220	151	3320	3042
SAN FRANCISCO U	167	153	153	119	243	422	428	320	360	386	257	238	3246	3080
SANTA MARIA	60	41	78	164	287	462	450	402	446	451	276	136	3253	3053
STOCKTON	0	0	0	60	400	639	716	434	419	335	56	6	3065	2806
COLORADO														
ALAMOSA	41	170	339	595	1067	1601	1802	1198	1023	826	537	212	9411	8609
COLORADO SPRINGS	1	17	229	376	789	1143	1102	980	904	608	350	88	6587	6473
DENVER	0	9	199	381	803	1043	1024	957	852	621	332	85	6306	6016
GRAND JUNCTION	0	0	60	266	756	1167	1387	888	736	551	249	51	6111	5605
PUEBLO	0	0	103	250	698	1118	1024	876	756	472	167	39	5503	5394
CONNECTICUT														
BRIDGEPORT	0	0	67	368	551	847	916	907	866	604	141	34	5301	5461
HARTFORD	2	1	121	542	725	1057	1040	986	894	567	111	43	6089	6350
DELAWARE														
WILMINGTON	0	0	65	362	553	805	847	808	753	520	84	5	4802	4940
DIST.OF COLUMBIA														
WASHINGTON DULLES	0	0	77	358	574	873	956	837	759	473	75	15	4997	5010
WASHINGTON NATIONAL	0	0	26	250	446	674	740	677	608	345	24	0	3790	4211
FLORIDA														
APPALACHICOLA U	0	0	0	8	142	285	241	150	145	44	0	0	1015	1361
DAYTONA BEACH	0	0	0	0	69	201	108	69	91	30	0	0	568	897
FORT MYERS	0	0	0	0	11	74	33	13	15	0	0	0	146	457
JACKSONVILLE	0	0	0	38	181	321	223	153	193	59	0	0	1168	1327
KEY WEST	0	0	0	0	■	4	3	0	0	0	0	0	7	64
LAKELAND U	0	0	0	0	38	151	79	44	52	■	0	0	370	678
MIAMI	0	0	0	0	2	32	14	1	10	0	0	0	59	206
ORLANDO	0	0	0	0	40	163	73	44	57	10	0	0	387	733
PENSACOLA	0	0	0	19	185	289	253	158	162	40	0	0	1106	1578
TALLAHASSEE	0	0	0	56	272	398	319	217	201	84	0	0	1547	1563
TAMPA	0	0	0	0	39	138	84	64	61	■	0	0	391	718
WEST PALM BEACH	0	0	0	0	4	67	18	3	15	5	0	0	112	299
GEORGIA														
ATHENS	0	0	22	142	381	600	528	445	418	162	2	0	2700	2975
ATLANTA	0	0	26	148	381	633	547	493	451	192	2	0	2873	3095
AUGUSTA	0	0	11	152	393	588	539	415	374	171	3	0	2646	2547
COLUMBUS	0	0	8	113	314	470	429	343	301	116	0	0	2094	2378
MACON	0	0	14	95	299	469	424	338	306	112	0	0	2057	2240
ROME	0	0	24		459	657	577	498	457	208	5	0		
SAVANNAH	0	0	2	79	243	368	315	232	212	86	0	0	1537	1952

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State and Station	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total for Season	Normals July June
IDAHO														
BOISE	10	11	53	371	689	983	1132	782	721	607	275	76	[illegible]	5833
LEWISTON	0	0	53	362	551	852	945	826	734	547	230	87	[illegible]	5464
POCATELLO	11	42	173	500	829	1246	1312	1021	908	745	435	122	7344	[illegible]
ILLINOIS														
CAIRO	0	0	66	[illegible]	465	[illegible]	[illegible]	695	628	224	1	[illegible]	3834	3833
CHICAGO O HARE	0	1	176	384	[illegible]	1072	1160	1078	951	643	152	30	6371	6497
CHICAGO MIDWAY	0	2	157	360	715	1041	1144	1059	947	638	142	22	6227	6127
MOLINE	0	8	180	349	[illegible]	1122	1235	1114	[illegible]	593	117	14	6529	[illegible]
PEORIA	0	1	157	354	[illegible]	1081	1156	1085	959	534	92	17	6192	[illegible]
ROCKFORD	0	5	175	400	804	1179	1277	1166	1107	668	150	29	6960	[illegible]
SPRINGFIELD	0	2	135	299	[illegible]	996	1044	992	848	435	63	7	5501	5558
INDIANA														
EVANSVILLE	0	0	124	280	537	865	867	742	689	[illegible]	23	[illegible]	4446	[illegible]
FORT WAYNE	0	3	167	424	[illegible]	1086	1084	1035	981	628	135	48	6306	6209
INDIANAPOLIS	0	5	163	380	671	988	1016	918	866	481	78	22	5588	5577
SOUTH BEND	0	3	144	378	672	985	1077	1035	944	634	136	37	6045	6462
IOWA														
BURLINGTON	0	9	180	327	755	1099	1194	1106	1002	525	84	11	6292	6149
DES MOINES	0	12	168	307	755	1131	1308	1185	1090	539	81	11	6587	6710
DUBUQUE	0	38	234	433	[illegible]	1219	1379	1267	1247	[illegible]	149	48	7557	7277
SIOUX CITY	0	7	180	317	820	1241	1439	1277	1107	575	97	21	7081	6953
WATERLOO	0	27	239	420	842	1251	1435	1277	1238	662	139	28	7558	7415
KANSAS														
CONCORDIA	0	4	121	223	592	1005	1106	1082	930	414	90	17	[illegible]	5623
DODGE CITY	0	1	118	180	633	963	961	975	762	357	78	25	5053	5046
GOODLAND	0	24	198	329	811	1099	1069	997	929	524	226	43	6249	[illegible]
TOPEKA	0	3	134	213	649	991	1056	1008	839	352	45	7	5298	5243
WICHITA	0	0	92	156	596	920	974	1016	757	333	72	9	[illegible]	4687
KENTUCKY														
COVINGTON	0	0	147	371	614	942	953	774	778	435	50	[illegible]	4974	5070
LEXINGTON	0	0	125	338	578	836	852	795	726	387	51	4	[illegible]	4729
LOUISVILLE	0	0	122	314	543	794	830	688	665	333	22	0	4311	4640
LOUISIANA														
ALEXANDRIA	0	0	1	54	299	443	387	340	242	99	0	0	1865	2200
BATON ROUGE	0	0	0	27	236	361	308	250	202	74	0	0	1458	1670
LAKE CHARLES	0	0	0	16	206	348	282	242	179	66	0	0	1339	1498
NEW ORLEANS	0	0	0	24	194	341	270	210	183	73	0	0	1295	1465
SHREVEPORT	0	0	14	32	312	541	473	457	305	124	0	0	2258	2167
MAINE														
CARIBOU	40	66	369	789	998	1433	1717	1498	1295	890	343	158	9596	9632
PORTLAND	18	17	206	624	762	1071	1177	1112	1086	746	286	146	7248	7498
MARYLAND														
BALTIMORE	0	0	49	303	509	759	818	720	702	436	66	2	4364	4729
MASSACHUSETTS														
BLUE HILL OBS R	4	6	148	530	695	959	1048	1016	950	663	190	92	6301	6335
BOSTON	0	2	102	458	587	836	925	918	866	590	162	59	5505	5621
WORCHESTER	6	9	190	592	760	1063	1158	1110	1037	721	180	104	6930	6848
MICHIGAN														
ALPENA	46	63	358	628	849	1140	1312	1198	1234	868	251	103	8050	8518
DETROIT	0	0	126	394	654	1006	1046	982	956	643	88	20	5915	6228
DETROIT METRO	0	2	189	495	726	1123	1129	1043	996	714	142	41	6600	6419
FLINT	4	10	211	519	737	1101	1142	1055	1059	736	162	56	6792	7041
GRAND RAPIDS	5	22	275	555	816	1127	1227	1133	1113	750	191	61	7275	6801
HOUGHTON LAKE	27	56	337	633	856	1197	1327	1234	1254	836	215	101	8073	8347
LANSING	6	27	256	538	762	1099	1166	1085	1057	737	180	57	6970	6904
MARQUETTE U	27	77	360	563	843	1097	1376	1165	1188	880	320	176	8072	8351
MUSKEGON	7	13	215	525	750	1046	1137	1085	1050	714	202	62	[illegible]	6890
SAULT STE MARIE	57	72	432	730	959	1260	1507	1314	1358	968	298	151	9106	9193
MINNESOTA														
DULUTH	45	160	507	684	1069	1404	1713	1479	1447	1013	358	226	10105	9756
INTERNATIONAL FALLS	12	133	485	669	1106	1491	1815	1629	1542	950	322	163	10317	10547
MINNEAPOLIS	0	48	289	467	933	1252	1561	1379	1324	775	188	39	8255	8159
ROCHESTER	0	50	309	478	941	1317	1556	1385	1359	755	196	60	8406	8227
ST CLOUD	4	99	366	558	1005	1369	1704	1483	1425	851	223	82	9169	8868
MISSISSIPPI														
JACKSON	0	0	6	79	308	465	429	348	293	138	0	0	2066	2300
MERIDIAN	0	0	8	103	295	461	449	370	317	164	0	0	2167	2388
MISSOURI														
COLUMBIA REGIONAL	0	2	167	257	653	1015	1034	1006	850	377	67	7	5435	5078
KANSAS CITY	0	6	141	227	660	1009	1084	1036	878	381	42	5	5469	5161
ST JOSEPH	0	15	180	273	675	1017	1103	1005	848	425	39	3	5583	5440
ST LOUIS	0	0	127	242	625	954	979	919	803	353	48	1	5051	4750
SPRINGFIELD	0	0	144	211	600	899	878	851	757	334	55	3	4732	4570
MONTANA														
BILLINGS	7	76	269	444	821	1078	1280	1308	1071	829	418	152	7753	7265
GLASGOW	3	88	283	481	946	1229	1437	1463	1244	867	373	102	8516	8969
GREAT FALLS	6	109	311	419	783	1000	1304	1450	1159	1015	460	190	8206	7652
HAVRE	1	91	299	530	915	1109	1388	1506	1216	935	355	134	8479	8687
HELENA	16	130	338	588	905	1149	1355	1429	1114	954	501	235	8714	8190
KALISPELL	54	91	328	681	914	1109	1445	1277	1140	777	459	258	8533	8554
MILES CITY	4	33	241	452	891	1168	1323	1355	1151	779	331	83	7831	7889
MISSOULA	27	60	230	575	903	1147	1302	1184	985	765	483	281	7942	7931
NEBRASKA														
GRAND ISLAND	0	27	165	315	793	1229	1302	1221	1052	524	127	31	6786	6420
LINCOLN	0	14	161	278	762	1177	1338	1250	1059	495	117	20	6671	6218
NORFORK	0	18	190	340	817	[illegible]	1369	1275	1107	604	105	25	7058	[illegible]
NORTH PLATTE	0	40	256	373	900	1262	1216	1160	1032	558	247	62	7106	[illegible]
OMAHA	0	15	191	300	[illegible]	1115	[illegible]	1189	1024	469	72	11	6423	6049
SCOTTSBLUFF	0	28	265	394	854	1135	1183	1105	981	[illegible]	268	75	6897	6774
VALENTINE	0	39	233	[illegible]	676	1163	1256	1284	1126	642	236	67	7322	[illegible]

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1974-1975

State and Station	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total for Season	Normals July-June
NEVADA														
ELKO	28	55	187	523	815	1184	1422	994	899	815	427	168	7517	7483
ELY	12	54	237	622	852	1250	1262	1021	1023	921	533	228	8015	7814
LAS VEGAS	0	0	0	55	300	634	607	446	340	249	37	0	2668	2601
RENO	52	42	120	478	733	1046	1006	858	818	746	332	113	6344	6022
WINNEMUCCA	32	41	153	521	806	1127	1156	844	749	730	339	140	6638	6629
NEW HAMPSHIRE														
CONCORD	34	26	213	694	865	1182	1339	1218	1075	730	152	98	7626	7360
MT WASHINGTON OBS	544	505	771	1291	1252	1589	1777	1699	1713	1453	758	615	13968	13878
NEW JERSEY														
ATLANTIC CITY	0	0	68	393	557	800	857	790	763	566	121	17	4932	4946
ATLANTIC CITY U	0	0	57	358	524	784	848	805	786	567	151	11	4891	4693
NEWARK	0	0	62	341	521	802	864	832	775	524	84	6	4811	5034
TRENTON U	1	0	69	343	524	785	858	817	775	519	85	6	4782	4947
NEW MEXICO														
ALBUQUERQUE	0	2	68	212	593	1020	1051	748	614	449	143	6	4906	4292
CLAYTON	2	11	180	285	680	1010	987	861	742	479	199	42	5478	5207
ROSWELL	0	0	104	190	518	784	729	630	462	269	36	1	3723	3697
NEW YORK														
ALBANY	17	14	227	631	786	1113	1212	1115	1053	722	145	88	7123	6888
BINGHAMTON	0	5	251	615	825	1144	1237	1127	1164	833	147	65	7413	7285
BUFFALO	2	0	187	483	738	1024	1077	1001	1053	764	175	32	6536	6927
NEW YORK U	1	0	59	333	502	789	852	812	764	507	86	11	4716	4848
NEW YORK KENNEDY	0	0	47	322	508	775	833	809	770	531	135	13	4743	5184
NEW YORK LA GUARDIA	0	0	63	341	512	783	858	819	778	529	105	14	4802	4909
ROCHESTER	1	1	209	535	755	1034	1096	1017	1031	764	139	52	6634	6719
SYRACUSE	16	3	202	565	726	1069	1100	1026	1026	749	138	46	6666	6678
NORTH CAROLINA														
ASHEVILLE	0	0	65	316	519	760	715	624	619	331	46	7	4002	4237
CAPE HATTERAS R	0	0	3	141	306	459	425	378	383	289	26	0	2410	2731
CHARLOTTE	0	0	50	216	454	699	609	554	444	212	12	0	3250	3218
GREENSBORO	0	0	53	244	477	711	676	579	578	256	26	0	3600	3825
RALEIGH	0	0	44	268	501	668	651	589	553	293	34	0	3601	3514
WILMINGTON	0	0	5	149	333	473	429	362	338	160	0	0	2249	2433
NORTH DAKOTA														
BISMARCK	6	119	357	582	1078	1466	1612	1467	1309	880	345	112	9333	9044
FARGO	3	91	345	537	1066	1362	1630	1535	1438	867	265	79	9218	9271
WILLISTON	1	100	354	553	1052	1294	1635	1470	1329	904	371	117	9180	9161
OHIO														
AKRON	0	0	169	438	637	1029	1015	940	895	626	122	38	5909	6224
CINCINNATI ABBE OB	0	0	111	286	554	862	878	748	736	437	42	5	4659	4844
CLEVELAND	2	5	176	423	660	1026	1021	962	934	691	154	38	6092	6154
COLUMBUS	0	0	130	374	609	954	999	878	850	542	73	18	5427	5702
DAYTON U	0	0	164	384	613	988	977	868	835	530	84	22	5465	5641
MANSFIELD	0	0	175	413	695	1073	1085	983	956	676	142	45	6243	5818
TOLEDO	2	0	190	478	730	1108	1104	1021	974	664	148	45	6464	6381
YOUNGSTOWN	8	10	216	480	692	1064	1069	995	972	717	149	48	6420	6426
OKLAHOMA														
OKLAHOMA CITY	0	0	56	88	463	784	763	792	583	235	29	0	3793	3695
TULSA	0	0	74	94	473	777	773	780	610	205	19	0	3805	3680
OREGON														
ASTORIA	174	97	130	398	502	596	678	606	653	596	373	273	5078	5295
BURNS U	60	60	115	515	849	1127	1231	967	960	801	440	199	7324	7212
EUGENE	29	16	25	305	480	589	585	595	623	548	294	138	4227	4739
MEACHAM	157	102	172	513	869	1112	1170	1027						
MEDFORD	20	6	9	333	611	803	873	642	663	590	249	86	4885	4930
PENDLETON	8	0	39	313	600	750	857	721	609	517	194	57	4665	5240
PORTLAND	32	16	29	301	500	640	722	660	615	523	240	127	4405	4792
SALEM	48	28	47	364	550	674	688	641	656	584	327	164	4771	4852
SEXTON SUMMIT R	185	96	54	412	748	971	883	846	952	861	431	304	6743	6430
PENNSYLVANIA														
ALLENTOWN	2	0	123	471	638	917	1027	919	841	577	98	19	5632	5827
ERIE	32	9	204	511	713	1046	1081	1016	1013	781	203	51	6660	6851
HARRISBURG	0	0	94	414	600	911	977	903	818	520	97	13	5347	5224
PHILADELPHIA	0	0	46	313	500	786	852	812	732	483	66	4	4594	4865
PITTSBURGH	0	0	124	384	630	1001	997	916	881	617	116	48	5714	5930
PITTSBURGH U	0	0	142	416	591	925	929	860	830	564	74	27	5358	5278
SCRANTON	5	2	155	503	655	941	1024	913	902	627	88	25	5840	6277
WILLIAMSPORT	1	0	142	488	648	950	1059	940	852	648	155	44	5927	5981
RHODE ISLAND														
BLOCK ISLAND	6	0	73	417	546	797	874	887	870	657	280	66	5473	5771
PROVIDENCE	0	0	114	512	634	899	951	962	907	606	160	64	5809	5972
SOUTH CAROLINA														
CHARLESTON	0	0	5	136	299	432	350	294	273	152	0	0	1941	2146
CHARLESTON U	0	0	5	86	248	393	334	286	269	128	0	0	1749	1904
COLUMBIA	0	0	18	163	342	521	417	365	344	136	0	0	2306	2598
GRNVLLE-SPRTNBRG	0	0	39	205	464	663	590	505	507	227	9	0	3209	3163
SOUTH DAKOTA														
ABERDEEN	0	43	250	455	967	1302	1477	1401	1234	725	184	44	8082	8617
HURON	1	36	218	414	954	1293	1489	1373	1239	756	195	67	8035	8055
RAPID CITY	1	42	242	407	849	1112	1274	1318	1151	728	343	119	7586	7324
SIOUX FALLS	2	39	240	419	927	1279	1476	1351	1217	701	157	51	7859	7838
TENNESSEE														
BRISTOL	0	0	72	326	527	785	755	616	621	328	29	1	4060	4306
CHATTANOOGA	0	0	28	250	517	746	686	581	593	290	14	0	3705	3505
KNOXVILLE	0	0	23	215	439	713	666	542	563	257	9	0	3427	3478
MEMPHIS	0	0	28	121	367	607	591	521	463	180	2	0	2880	3227
NASHVILLE	0	0	48	196	464	685	665	567	547	241	6	0	3419	3696
OAK RIDGE	0	0	61	330	568	781	736	610	629	318	24	0	4057	3944

MONTHLY AND SEASONAL HEATING DEGREE DAYS

(Base 65°F)

State and Station	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total for Season	Normals July-June
TEXAS														
ABILENE	0	0	60	67	400	631	620	553	351	144	7	0	2833	2610
AMARILLO	0	0	119	199	571	890	853	826	[illegible]	[illegible]	67	15	[illegible]	[illegible]
AUSTIN	0	0	5	11	271	441	377	355	204	53	0	0	1718	1737
BROWNSVILLE	0	0	0	[illegible]	77	169	177	90	31	5	0	0	552	650
CORPUS CHRISTI	0	0	0	4	117	265	227	167	77	10	0	0	867	[illegible]
DALLAS FT WORTH	0	0	20	16	296	546	488	508	355	112	0	0	2341	2382
DEL RIO	0	0	6	9	223	431	375	274	114	22	0	0	1454	[illegible]
EL PASO	0	0	41	107	445	728	672	445	309	188	13	0	2948	2678
GALVESTON	0	0	0	2	121	[illegible]	[illegible]	[illegible]	120	28	0	0	934	1224
HOUSTON INTERCON	0	0	0	15	196	336	290	270	179	48	0	0	1334	[illegible]
LUBBOCK	0	0	105	166	500	753	744	664	474	233	18	4	3661	3545
MIDLAND	0	0	44	65	344	594	582	468	314	135	2	3	2551	2621
PORT ARTHUR	0	0	0	20	[illegible]	384	297	276	180	67	0	0	1454	1518
SAN ANGELO	0	0	33	[illegible]	[illegible]	[illegible]	568	[illegible]	288	101	[illegible]	0	[illegible]	2240
SAN ANTONIO	0	0	[illegible]	19	240	433	389	316	152	41	0	0	1612	1570
VICTORIA	0	0	0	7	155	286	244	206	92	14	0	0	1004	1227
WACO	0	0	13	14	274	578	507	445	243	120	0	0	[illegible]	[illegible]
WICHITA FALLS	0	0	36	54	398	673	644	628	430	157	0	0	3020	[illegible]
UTAH														
MILFORD	0	4	144	460	807	1219	1258	949	880	755	464	107	7047	[illegible]
SALT LAKE CITY	0	5	54	316	638	1025	1157	819	734	613	334	92	5787	5983
WENDOVER	0	4	65	397	[illegible]	[illegible]	[illegible]	882	773	629	286	60	6124	5760
VERMONT														
BURLINGTON	0	6	224	565	858	1188	1276	1236	1141	831	182	82	7601	7876
VIRGINIA														
LYNCHBURG	0	0	74	304	537	799	808	701	696	362	45	11	4337	4233
NORFOLK	0	0	16	213	371	584	584	547	541	382	47	0	[illegible]	3488
RICHMOND	0	0	62	310	513	715	746	654	604	368	44	1	4017	3939
ROANOKE	0	0	84	308	539	801	783	683	699	361	60	12	4330	4307
WALLOPS ISLAND	0	0	39	307	504	713	757	678	641	460	103	0	4202	4240
WASHINGTON														
OLYMPIA	103	51	78	412	634	763	817	711	751	624	377	225	[illegible]	5530
QUILLAYUTE	223	168	159	438	595	656	797	684	738	643	417	338	5856	5951
SEATTLE	58	26	55	331	504	634	714	635	638	522	279	165	4561	4727
SEATTLE-TACOMA	60	66	74	380	591	690	804	671	678	570	317	144	5045	5185
SPOKANE	41	22	134	519	852	1062	1276	1122	953	694	375	173	7223	6835
STAMPEDE PASS	353	252	273	577	965	1087	1198	1109	1141	995	748	586	9284	9400
WALLA WALLA U	8	0	36	326	583	722	891	777	664	493	192	66	4758	4835
YAKIMA	44	8	79	452	706	917	1072	889	741	540	232	80	5760	6009
WEST VIRGINIA														
BECKLEY	5	9	188	447	660	943	946	794	849	514	116	40	5511	5615
CHARLESTON	0	0	110	388	590	869	899	749	772	445	59	4	4885	4590
ELKINS	29	11	188	564	784	1074	1037	871	901	632	174	46	6311	5975
HUNTINGTON	0	0	113	337	560	812	851	704	696	376	43	4	4496	4624
PARKERSBURG	0	0	111	357	580	857	886	759	745	451	48	15	4809	4817
WISCONSIN														
GREEN BAY	6	39	331	588	912	1248	1381	1297	1260	779	205	90	8136	8098
LA CROSSE	0	24	261	445	822	1182	1446	1292	1248	702	162	56	7640	7417
MADISON	1	37	253	443	829	1179	1329	1220	1198	714	150	43	7396	7730
MILWAUKEE	0	20	237	461	786	1103	1260	1157	1122	814	267	69	7296	7444
WYOMING														
CASPER	3	61	319	504	912	1253	1352	1230	1066	813	493	193	8199	7555
CHEYENNE	4	55	302	509	873	1180	1215	1115	1070	819	506	212	7860	7255
LANDER	4	61	274	513	930	1401	1360	1172	1019	836	518	210	8298	7869
SHERIDAN	3	93	309	513	918	1178	1317	1370	1117	852	450	194	8314	7708

Clemson University Library

COOLING DEGREE DAYS

(Base 65°F.)

JUNE 1975

State and station	Current season		Normals January through this month
	This month	Period January through this month	
ALABAMA			
BIRMINGHAM	351	687	669
HUNTSVILLE	325	537	604
MOBILE	475	1075	989
MONTGOMERY	369	736	801
ALASKA			
ANCHORAGE	0	0	0
ANNETTE	0	0	6
BARROW	0	0	0
BARTER ISLAND	0	0	0
BETHEL	0	0	0
BETTLES	0	0	6
BIG DELTA	3	3	20
COLD BAY	0	0	0
FAIRBANKS	28	28	31
GULKANA	0	0	9
HOMER	0	0	0
JUNEAU	0	0	0
KING SALMON	0	0	0
KODIAK	0	0	0
KOTZEBUE	0	0	0
MC GRATH	0	0	6
NOME	0	0	0
ST. PAUL ISLAND	0	0	0
SUMMIT	0	0	0
TALKEETNA	0	0	6
UNALAKLEET	0	0	0
YAKUTAT	0	0	0
ARIZONA			
FLAGSTAFF	0	0	15
PHOENIX	654	1082	1119
TUCSON	471	670	905
WINSLOW	175	193	279
YUMA	619	1035	1368
ARKANSAS			
FORT SMITH	327	539	628
LITTLE ROCK	416	744	616
CALIFORNIA			
BAKERSFIELD	490	810	610
BISHOP	183	235	256
BLUE CANYON	59	70	20
EUREKA U	0	0	0
FRESNO	303	467	442
LONG BEACH	52	90	158
LOS ANGELES	14	27	96
LOS ANGELES U	48	80	225
MT SHASTA R	40	54	36
OAKLAND	7	39	21
RED BLUFF	349	544	515
SACRAMENTO	258	435	309
SANDBERG R			
SAN DIEGO	18	19	123
SAN FRANCISCO	4	25	18
SAN FRANCISCO U	0	23	5
SANTA MARIA	0	0	5
STOCKTON	236	393	314
COLORADO			
ALAMOSA	0	0	9
COLORADO SPRINGS	59	59	97
DENVER	69	72	115
GRAND JUNCTION	133	142	261
PUEBLO	191	211	232
CONNECTICUT			
BRIDGEPORT	108	158	128
HARTFORD	147	253	126
DELAWARE			
WILMINGTON	207	304	244
DIST.OF COLUMBIA			
WASHINGTON DULLES	197	290	245
WASHINGTON NATIONAL	344	534	404
FLORIDA			
APPALACHICOLA U	453	977	978
DAYTONA BEACH	441	1302	1082
FORT MYERS	528	1905	1483
JACKSONVILLE	482	1057	952
KEY WEST	584	2539	2147
LAKELAND U	473	1591	1326
MIAMI	501	2109	1661
ORLANDO	481	1527	1271
PENSACOLA	490	1120	1031
TALLAHASSEE	459	1003	977
TAMPA	536	1698	1345
WEST PALM BEACH	442	1779	1517
GEORGIA			
ATHENS	312	594	578
ATLANTA	313	558	514
AUGUSTA	332	641	705
COLUMBUS	408	814	771
MACON	377	772	856
ROME	322	574	507
SAVANNAH	439	1018	851
HAWAII			
HILO	288	1367	1321
HONOLULU	400	1744	1758
KAHULUI	297	1491	1567
LIHUE	376	1675	1533
IDAHO			
BOISE	64	74	108
LEWISTON	52	65	102
POCATELLO	23	25	49
ILLINOIS			
CAIRO U	445	751	603
CHICAGO O HARE	203	279	173
CHICAGO MIDWAY	242	331	244
MOLINE	241	327	257
PEORIA	237	320	282
ROCKFORD	201	276	190
SPRINGFIELD	271	388	337
INDIANA			
EVANSVILLE	342	547	438
FORT WAYNE	192	270	206
INDIANAPOLIS	222	325	290
SOUTH BEND	203	289	183
IOWA			
BURLINGTON	236	326	286
DES MOINES	237	356	250
DUBUQUE	159	216	154
SIOUX CITY	162	253	260
WATERLOO	215	301	181
KANSAS			
CONCORDIA	221	309	344
DODGE CITY	252	350	380
GOODLAND	106	120	205
TOPEKA	289	456	393
WICHITA	275	356	486
KENTUCKY			
COVINGTON	256	382	312
LEXINGTON	267	408	366
LOUISVILLE	320	496	376
LOUISIANA			
ALEXANDRIA	476	1008	774
BATON ROUGE	446	1035	983
LAKE CHARLES	452	1030	1034
NEW ORLEANS	440	1052	1030
SHREVEPORT	403	776	876
MAINE			
CARIBOU	54	54	8
PORTLAND	49	50	22
MARYLAND			
BALTIMORE	252	368	295
MASSACHUSETTS			
BLUE HILL OBS R	84	126	79
BOSTON	139	199	137
WORCHESTER	69	102	74
MICHIGAN			
ALPENA	71	110	33
DETROIT	213	341	182
DETROIT METRO	171	253	165
FLINT	128	196	110
GRAND RAPIDS	148	213	141
HOUGHTON LAKE	83	141	59
LANSING	165	238	137
MARQUETTE U	67	76	20
MUSKEGON	161	179	100
SAULT STE MARIE	42	74	11
MINNESOTA			
DULUTH	18	20	14
INTERNATIONAL FALLS	54	77	30
MINNEAPOLIS	159	225	148
ROCHESTER	141	209	127
ST CLOUD	97	134	93
MISSISSIPPI			
JACKSON	407	882	840
MERIDIAN	430	850	821
MISSOURI			
COLUMBIA REGIONAL	235	317	371
KANSAS CITY	284	423	412
ST JOSEPH	292	457	394
ST LOUIS	308	455	461
SPRINGFIELD	291	429	395
MONTANA			
BILLINGS	15	17	67
GLASCOW	33	34	70
GREAT FALLS	10	10	36
HAVRE	14	14	65
HELENA	1	1	25
KALISPELL	0	0	9
MILES CITY	60	69	133
MISSOULA	0	0	18
NEBRASKA			
GRAND ISLAND	158	209	265
LINCOLN	204	284	313
NORFORK	171	239	237
NORTH PLATTE	89	110	191
OMAHA	242	364	332
SCOTTSBLUFF	101	114	134
VALENTINE	124	164	152
NEVADA			
ELKO	15	15	28
ELY	2	2	22
LAS VEGAS	570	850	891
RENO	43	47	46
WINNEMUCCA	50	50	61
NEW HAMPSHIRE			
CONCORD	108	156	57
MT WASHINGTON OBS	0	0	0
NEW JERSEY			
ATLANTIC CITY	164	238	193
ATLANTIC CITY U	131	173	148
NEWARK	211	328	244
TRENTON U	204	315	239
NEW MEXICO			
ALBUQUERQUE	256	281	364
CLAYTON	156	166	186
ROSWELL	361	447	514
NEW YORK			
ALBANY	97	155	141
BINGHAMTON	119	178	82
BUFFALO	129	219	93
NEW YORK U	185	305	256
NEW YORK KENNEDY	137	195	171
NEW YORK LA GUARDIA	160	247	245
ROCHESTER	121	210	125
SYRACUSE	114	194	121
NORTH CAROLINA			
ASHEVILLE	124	217	248
CAPE HATTERAS R	353	544	409
CHARLOTTE	307	535	513
GREENSBORO	313	488	428
RALEIGH	269	435	432
WILMINGTON	417	800	656
NORTH DAKOTA			
BISMARCK	64	70	97
FARGO	92	103	[illegible]
WILLISTON	39	41	73
OHIO			
AKRON	179	253	168
CINCINNATI ABBE OB	275	448	367
CLEVELAND	187	262	164
COLUMBUS	248	379	230
DAYTON U	228	349	268
MANSFIELD	160	228	220
TOLEDO	172	251	186
YOUNGSTOWN	163	228	131
OKLAHOMA			
OKLAHOMA CITY	310	472	545
TULSA	335	577	576
OREGON			
ASTORIA	0	1	0
BURNS U	11	11	30
EUGENE	25	28	25
MEDFORD	60	81	84
PENDLETON	88	115	106
PORTLAND	39	51	45
SALEM	16	17	26
SEXTON SUMMIT R	20	40	7
PACIFIC AREA			
GUAM TAGUAC R	487	2524	2429
JOHNSTON	420	2228	2313
KOROR R	493	3038	2973
KWAJALEIN	493	3141	3011
MAJURO	447	2834	2914
PAGO PAGO	431	2792	2726
PONAPE R	464	2982	2837
TRUK MOEN ISLAND	494	3051	2935
WAKE	525	2395	2455
YAP R	451	2847	2930
PENNSYLVANIA			
ALLENTOWN	154	233	194
ERIE	132	196	81
HARRISBURG	192	289	283
PHILADELPHIA	224	345	290
PITTSBURGH	137	197	180
SCRANTON	166	237	145
WILLIAMSPORT	108	162	180
RHODE ISLAND			
BLOCK ISLAND	40	44	25
PROVIDENCE	100	155	86
SOUTH CAROLINA			
CHARLESTON	614	853	730
CHARLESTON U	471	912	839
COLUMBIA	390	817	733
GRNVLLE-SPRTNBRG	290	520	520
SOUTH DAKOTA			
ABERDEEN	142	169	120
HURON	136	157	100
RAPID CITY	41	50	125
SIOUX FALLS	136	178	175
TENNESSEE			
BRISTOL	190	303	335
CHATTANOOGA	238	382	537
KNOXVILLE	293	505	523
MEMPHIS	421	797	692
NASHVILLE	341	583	569
OAK RIDGE	216	798	446
TEXAS			
ABILENE	411	695	838
AMARILLO	273	358	417
AUSTIN	454	940	1042
BROWNSVILLE	536	1793	1632
CORPUS CHRISTI	537	1621	1339
DALLAS FT WORTH	483	841	[illegible]
DEL RIO	534	1199	1332
EL PASO	482	696	746
GALVESTON	483	1077	1083
HOUSTON INTERCON	455	1068	1070
LUBBOCK	383	539	550
MIDLAND	466	776	771
PORT ARTHUR	454	1026	1027
SAN ANGELO	448	792	978
SAN ANTONIO	487	962	1114
VICTORIA	535	1377	1176
WACO	448	807	971
WICHITA FALLS	486	737	841
UTAH			
MILFORD	37	37	98
SALT LAKE CITY	89	98	154
WENDOVER	139	168	204
VERMONT			
BURLINGTON	131	206	84
VIRGINIA			
LYNCHBURG	209	323	331
NORFORK	366	550	409
RICHMOND	267	418	405
ROANOKE	213	326	[illegible]
WALLOPS ISLAND	252	314	296
WASHINGTON			
OLYMPIA	4	4	14
QUILLAYUTE	0	0	0
SEATTLE	10	12	28
SEATTLE-TACOMA	21	21	11
SPOKANE	7	7	67
STAMPEDE PASS R	0	0	0
WALLA WALLA U	67	95	156
YAKIMA	52	62	98
WEST INDIES			
SAN JUAN P.R.	543	2631	2240
WEST VIRGINIA			
BECKLEY	92	144	132
CHARLESTON	212	318	[illegible]
ELKINS	70	95	109
HUNTINGTON	255	413	[illegible]
PARKERSBURG U	220	332	315
WISCONSIN			
GREEN BAY	106	162	88
LA CROSSE	177	262	182
MADISON	176	257	114
MILWAUKEE	98	128	[illegible]
WYOMING			
CASPER	16	16	[illegible]
CHEYENNE	7	7	45
LANDER	8	[illegible]	[illegible]
SHERIDAN	6	6	[illegible]

STORM SUMMARY

STATE	TORNADOES	HAILSTORMS	WINDSTORMS	[illegible]	HEAVY SNOWSTORMS [illegible]	[illegible]	[illegible]
[illegible]							
Alaska							
[illegible]							
[illegible]							
[illegible]							
Colorado							
Connecticut							
Delaware							
Florida							
Georgia							
[illegible]							
Idaho							
[illegible]							
Indiana							
Iowa							
[illegible]							
[illegible]							
[illegible]							
Maine							
[illegible]							
Massachusetts							
Michigan							
Minnesota							
Mississippi							
Missouri							
Montana							
[illegible]							
Nevada							
[illegible]							
[illegible]							
New Mexico							
New York							
North Carolina							
[illegible]							
Ohio							
[illegible]							
Oregon							
Pacific Area							
Pennsylvania							
Puerto Rico							
Rhode Island							
South Carolina							
South Dakota							
Tennessee							
Texas							
Utah							
Vermont							
Virginia							
Virgin Islands							
Washington							
West Virginia							
Wisconsin							
Wyoming							

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GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

JUNE 1975

Herbert J. Thompson
Office of Hydrology

The most significant event during June was the beginning of major flooding in the Red River of the North Basin. A record crest occurred at Enderlin, ND, on the Maple River. Record flood crests also were reported on Squaw Creek and the South Skunk River near Ames, IA, the Mussellshell River at Harlowton, MT, Pine Island Bayou at Sour Lake, TX, and on the Clark Fork River above Missoula, MT.

Losses running into millions of dollars were reported in the South Skunk Basin in Iowa, the headwaters of the Missouri River in Montana, the lower Neches Basin in Texas, and the Wabash Basin in Indiana. Serious losses also occurred in the Kansas and Marais des Cygnes River Basins and the Arkansas River Basin all in Kansas. Less significant flooding occurred in several other sections of the country.

A number of urban or flash flood events occurred during June with Indianapolis, IN, and Houston and Beaumont, TX, among the communities affected.

Delayed data on snowmelt flooding in the Snake River Basin in Idaho is included in this month's report.

These and other hydrologic events of unusual significance or involving loss of life or property damage are discussed in more detail below.

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	HUDSON BAY DRAINAGE		
Souris River Basin (ND)	The major flooding which began in April continued into June at and below Foxholm ending during the first week above Verendrye. Heavy rains on the 9th-10th with Minot reporting a total of 2.65 inches probably helped to prolong the flooding downstream at Bantry and Westhope, where flooding continued into July.	0	N/A
Red River of the North Basin	Major flooding began late in June which reached record proportions in July on some streams. Rains of 3 to 4 inches over the southern portion of the Red River on the 19th-22d caused the South Buffalo, Buffalo, and the Red River at Fargo to exceed flood stage on the 21st and saturated the ground for the rains of the 27th to July 1, which caused the serious flooding. This period of rain was the result of a stagnating flow pattern at the surface which set up moisture instability, and low level jet conditions that caused repeated thunderstorm activity over the same general area during the period. The location of the principal heavy rain areas seemed to be closely associated with the low-level jet axis, low-level jet speeds, and speed gradient along streamlines. Upper-air features normally associated with precipitation appeared to play a less significant role. The rain with the upper air systems became more intense as these systems came into the low-level jet region, although the high moisture and low stability of the area may have been as much responsible as the low-level jet winds. The heaviest	0	N/A

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

JUNE 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	HUDSON BAY DRAINAGE-Cont'd		
	storm total of 20.6 inches was reported about 25 miles southwest of Fargo and totals in excess of 8 inches occurred over an area 20 to 30 miles wide from northeast La Moure County in North Dakota to southeast Mahnomen County in Minnesota. From 4 to 8 inches fell over much of the remainder of the basin during the period.		
	By the end of June, most tributaries were over flood stage. However, the main stem of the Red didn't exceed flood stage until early July except at Fargo. In general, streams crested in July, but the upper Maple River crested on the 30th 9.4 feet over flood stage at Enderlin, ND, where one-third of the residents were evacuated. The crest of 15.41 feet at Enderlin exceeded the previous record crest of 13.55 feet which occurred in 1969. The town of Kathryn, ND, in the Sheyenne River Basin was affected by flash flooding from Spring Creek with residents evacuated early on the 29th.		
	ST. LAWRENCE DRAINAGE		
Great Lakes Tributaries	Urban and/or flash flooding occurred at several points in the Great Lakes area during June. A band of rain with locally heavy amounts in excess of 3 inches occurred from eastern Wisconsin across central Michigan on the 24th. Urban flooding was reported in several areas including Milwaukee, WI, and the Detroit, MI, metropolitan area.	0	N/A
	In New York urban flooding was reported in Chautauqua County on the 5th and the Springville-Ashford Hollow-West valley area of the Cattaraugus Creek drainage on the 19th. Tributaries of the Genesee River crested about three-quarters bankfull on the 20th.		
	ATLANTIC SLOPE DRAINAGE		
Delaware River Basin	Flash and urban flooding was reported in the Reading, PA, area on the 28th with more than 2.5 inches of rain in 6 hours. Rains of 2.4 inches on the 5th and 1.4 inches on the 12th caused urban flooding in the Wilmington, DE, area. Urban flooding was reported in parts of Newcastle County, DE, on the 19th.	0	N/A
Susquehanna River Basin	Average rainfall for June over the basin totaled 5.93 inches--144% of normal. Flow of the Susquehanna River averaged 152% of normal. Rains of 1.5 to 2.5 inches on the 5th-7th caused strong rises on most streams which crested below flood stage except along the Chemung River which crested near flood stage.	0	0
Coastal Basins North Carolina to Georgia	Relatively minor flooding occurred on several streams in these basins during June. In addition to the heavy rains of May 30-31, an additional 1 to 3.4 inches fell over the area on June 1. The	0	

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GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

JUNE 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ATLANTIC SLOPE DRAINAGE-Cont'd		
	Rocky River at Norwood, NC, the Peedee River at Cheraw, SC, and the Broad River at Gaffney, SC, all slightly exceeded flood stage the 1st or 2d. Flooding continued from late May on the Broad River at Blair, SC, ending on the 3d. The lower Peedee River crested 2.6 feet over flood stage on the 7th at Peedee, SC, and the Lumber River crested about 1 foot over flood stage at Lumberton, NC, on the 5th. In the Wateree Basin both Lookout Shoals and Wateree Reservoirs exceeded full pool elevation by 1.9 and 1 feet respectively.		
	During the period of the 9th-12th, rainfall amounts of up to 3.5 inches occurred. The Roanoke River reached flood stage at Williamston, NC, on the 13th-14th and Lookout Shoals Reservoir again exceeded full pool elevation, this time by 2.6 feet.		
	Lowland flooding on the lower Savannah River continued from May ending on the 13th at Clyo, GA.		
	Losses were light. Construction work was halted for a few days on the Broad River at Parr, SC, and on the Congaree River at Columbia, SC. Warnings permitted the removal of equipment. Heavy releases from various reservoirs caused some lowland flooding downstream.		
	EAST GULF OF MEXICO DRAINAGE		
Appalachicola River	Rainfall in excess of 2 inches occurred over the upper and lower portions of the basin on the 10th-13th. Light flooding resulted on the lower reach of the river on the 13th-16th with a crest 1.7 feet over flood stage on the 15th at Blountstown, FL. The river again slightly exceeded flood stage on the 19th as runoff from the upper portion of the basin reached Blountstown.	0	N/A
Tombigbee River	Locally heavy rain on the 9th-10th over the headwaters of the Tombigbee caused a sharp rise on the river with light flooding at Amory, MS, where a crest 1.6 feet over flood stage occurred on the 11th. Some urban and flash flooding was reported in communities in the area with streets covered by 6 to 10 inches of water for a short period.	0	N/A
Pearl River Basin	Rainfall amounts for June were well above normal over the lower Pearl River Basin with monthly totals of 9 to 14 inches. Heaviest amounts occurred on the 9th-16th and totaled as much as 6 inches or more for the period. Flooding began on the 10th near Bogalusa, LA, with crests of 2.4 and 2.9 feet above flood stage near Bogalusa and Pearl River respectively the 12th and 14th. Some flooding also	0	N/A

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	EAST GULF OF MEXICO DRAINAGE-Cont'd		
	occurred along the Bogue Chitto Tributary on the 10th-12th with a crest 1 foot over flood stage at Franklinton, LA, on the 12th.		
	UPPER MISSISSIPPI BASIN		
Mississippi River Tributaries in Minnesota	Localized heavy rain of 7 inches on the 20th-21st caused light flooding on the South Fork of the Crow River which continued into July. A rise began along the Minnesota River below Mankato on the 11th due to rains of more than an inch moving east-northeast across southwestern Minnesota into central Wisconsin. Amounts of 4 inches on the 15th around Rapidan caused a crest within a foot of flood stage from Jordan downstream to below Savage late in the month.	0	N/A
Mississippi River Tributary Basins in Iowa	Record flooding occurred during June in the South Skunk River Basin around Ames. It was reportedly the worst flooding there since 1918 which was before modern records began. On Squaw Creek (flood stage 7 feet) the crest of 14 feet was well above the previous record of 10.74 feet, which occurred in 1970. A peak stage of 10.7 feet occurred in 1965 just prior to the beginning of records there. On the South Skunk River below Squaw Creek near Ames (flood stage 10 feet) the crest was 15.44 feet as compared to the previous high stage of 13.33 feet in June 1974. Records began there in 1952. Extensive flooding also occurred along the lower Cedar River, the Iowa River from above Marshalltown to Coralville Dam, and in the Des Moines River Basin. Except on the upper Des Moines River where a crest of 5.4 feet over flood stage occurred at Stratford, crests were generally in the range of 1 to 3 feet over flood stage. Several streams had more than one crest over flood stage due to the extended period of rainfall. Flooding was due to a series of general 1-2 inch rains on the 9th, 10th, 11th, 15th, 18th, and 22d which produced high but mostly within-bank river levels, and saturated soil conditions. This was followed by 3-5 inch rains in the Fort Dodge area in the Des Moines River basin and 2-5 inch rains on the North, Middle, and South Rivers the night of the 24th. Additional heavy rains fell during the night of the 26th with 2-3 inch downpours in two hours or less over Squaw Creek and South Skunk River from Ames upstream resulting in the record floods at Ames. Significant flood damage was confined to Squaw Creek and the South Skunk basins from above Ames to confluence with the Skunk River where 50,000 acres were flooded, of	1	5,250

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

JUNE 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	UPPER MISSISSIPPI BASIN-Cont'd		
	which 40,000 acres was cropland resulting in damage of approximately $100 per acre, or $4 million. Rural property damage estimated at $250,000 and Ames property damage estimated at $1 million. In addition to roads and residential areas, several businesses and a substantial portion of the Iowa State University campus was affected. One death resulted from the Ames flood when a 13-year old boy drowned while wading in flood water.		
Illinois River (Illinois)	During the period of the 12th-15th, rainfall of more than 2 inches occurred over the upper and middle portions of the basin bringing the river over flood stage at La Salle and downstream at Havana and Beardstown where flooding continued into July. Crests at these points were in the range of 1 to 2 feet over flood stage.	0	N/A
	MISSOURI BASIN		
Upper Missouri Basin in Montana	Rains in excess of 2 inches along the Continental Divide during the third week of June caused major flooding along the east slope of the Rocky Mountains. Streams were already high from the annual snowmelt runoff and general rains much of the early part of the month which included 1.6 inches at Great Falls on the 9th. The Sun River crested at 21 feet (flood stage 15 feet) at Great Falls. Flooding along the Sun River was second only to that of the record flood of 1964. Damage around Great Falls was estimated at $17 million, with 20,000 acres flooded and 4,000 people evacuated. Less serious flooding occurred along the Big Hole, Jefferson, and Gallatin Rivers with crests in the range of 0.5 to 1.5 feet over flood stage. Major flooding occurred on streams in Glacier National Park with all highways closed. Major flooding was reported in Choteau from the Teton River and Spring Creek and also along the Upper Marias River. There are no reporting stations on streams in Glacier Park or on the Teton River or Spring Creek, while the Marias River at Shelby failed to go over flood stage. Widespread flooding of basements occurred in the Helena Valley from record stages on Ten Mile and Little Prickly Pear Creeks. No reports are received from these streams. Similar flooding occurred at Wisdom in the Big Hole Valley. A record crest stage of 10.02 feet occurred on the Musselshell River at Harlowton. This was 3 feet over flood stage and 1.3 feet above the previous record stage of June 1938. Widespread rural flooding was reported downstream to Fort Peck Reservoir.	0	21,000

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	MISSOURI BASIN-Cont'd		
	In the Yellowstone Basin, a crest 1 foot over flood stage was reported on the Shields River at Clyde Park.		
Cheyenne River Basin (South Dakota)	On the afternoon of the 7th, heavy, intense, local rain caused urban flooding in portions of Rapid City. Basements were flooded and driveways and sidewalks were damaged. However, Rapid Creek stayed within banks.	0	N/A
James River	Flooding continued from May on the James at Columbia and Stratford, SD. A second crest occurred on the 25th at Columbia, 4.3 feet over flood stage. Frequent light rains during the month with more than 1.5 inches upstream on the 9th-10th and 2 to 4 inches on the 19th prolonged the flooding and caused the crest at Columbia. Late in the month the unusually heavy rains which struck the Red River Basin June 28-June 1 (discussed above) overlapped into the James Basin with a 16-inch center just north of La Moure, ND. Flash flooding occurred on small tributaries at La Moure with a number of evacuations necessary. The James River crested near flood stage at La Moure.	0	N/A
Floyd River (Iowa)	Heavy thunderstorms occurred over the upper Floyd Basin during the night of the 3d-4th. Rainfall amounts of 1 to over 4 inches were reported. Widespread lowland flooding occurred down to Le Mars with crests of 2 and 4 feet over flood stage reported at Sheldon and Alton respectively. Minor flooding occurred at Alton on the 23d.	0	N/A
Little Sioux River (Iowa)	Flooding occurred again during June along the Little Sioux River. Rains in excess of 2 inches on the 3d to 4th caused flooding from above Spencer to below Linn Grove, with crests from 2 to 5 feet over flood stage. On the 21st 1 to 2 inches of rain caused flooding from Spencer down to Cherokee with crests up to 4 feet over flood stage. This period of flooding extended into July at Linn Grove.	0	N/A
Platte River Basin (Nebraska)	Rains of 7 to 12 inches occurred over much of east-central Nebraska the first 3 weeks of June thoroughly saturating the ground. Heavy showers on the 18th and 20th caused lowland flooding along Maple and Pebble Creeks. There are no reporting stations on these tributaries of the Elkhorn River. Up to 4 inches of rain on the 18th-19th over the upper Wood River Basin caused flooding in the town of Wood River. No reporting stations went over flood stage.	0	N/A

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GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

JUNE 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	MISSOURI BASIN-Cont'd		
Kansas River Basin	Several periods of locally heavy rainfall occurred over the basin during June. On the 3d, 1.5 to 2 inches of rain caused flooding along the Black Vermillion River, a tributary of the Big Blue. A crest 6.6 feet over flood stage occurred at Frankfort, KS, on the 4th. Damage to corn and soybeans amounted to $10,000. On the 8th-9th general rains of 3 inches with isolated amounts of over 4 inches fell over northeast Kansas. Flash flooding occurred on small streams in the area. Soldier Creek crested 3 feet over flood stage at Delia, KS, and minor flooding was reported along the Delaware River. Agricultural damage was estimated at $90,000. On the 17th-18th, thunderstorm rainfall in excess of 5 inches occurred over Sappa and Prairie Dog Creeks and the headwaters of the Solomon River. Flash flooding occurred in Colby, KS, where several apartment buildings, 10 homes, 2 businesses, and many streets were inundated. Downstream on Sappa Creek the crest at Oberlin, KS, of 16.53 feet was only 0.04 foot below the record crest of 1956. Flood stage at Oberlin is 11 feet. Damage estimates include $525,000 residential, $75,000 public, $206,000 agricultural, and other losses of $71,000. On the 22d widespread rainfall of 1 to 3 inches occurred over the northern two-thirds of Kansas and south-central Nebraska. A secondary crest 3.5 feet over flood stage occurred at Oberlin and crests of 1.3 and 2.4 feet over flood stage were reported on the South Fork of the Solomon at Osborne and the Solomon River at Niles, respectively. The Little Blue River crested 1.7 feet over flood stage at Hollenberg, KS. The Smoky Hill River reached bankfull stages with no flooding reported.	0	977
Lower Missouri Tributaries in Northwestern Missouri	Flooding continued into June on the lower Grand River from the heavy local rains of late May. Monthly rainfall totals were well above normal along a band across extreme southern Iowa and northern Missouri with an amount of 9.4 inches reported at Clarinda, Iowa. There were two periods of locally heavy intense thunderstorm rainfall which caused generally light flooding on several streams in the area. The One Hundred and Two River crested 4.8 feet over flood stage at Rosendale, MO, on the 12th and the Platte River crested 2.6 feet over flood stage at Agency, MO, also on the 12th. The Little Blue River crested about 2 feet over flood stage on the 11th. Minor flooding	0	N/A

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	MISSOURI BASIN-Cont'd		
	with crests of 1 foot or less over flood stage occurred on the Nishnabotna River at Hamburg, IA, on the 26th and the lower Grand River at Brunswick, MO, on the 13th and 28th.		
Marais Des Cygnes River Basin	Widespread river and flash flooding occurred in the basin during the period of the 16th-23d with crest stages approaching those of the major flood of 1973. Rainfall on the 16-17th averaged 3.5 inches with amounts of over 5 inches reported. Additional rain fell on the 21st-22d causing a second minor crest at Reading, KS. Crests were in the range of 6 to 10 feet over flood stage on the main stem above Osawatomie, KS, and 1 to 4 feet over flood stage from Lacygne down to State Line, KS. Flooding also occurred on several tributaries including Salt Creek, upper Pottawotomie Creek and the upper Marmaton River with crests 3 to 5.5 feet over flood stage. Minor flooding occurred on the upper Little Osage River. Damage was primarily to crops, but some street, bridge, and residential damage was reported. Two to three day warnings enabled farmers to save a portion of the wheat crop along the reach from Osawatomie to State Line.	0	470
Missouri River Main Stem	The Missouri River exceeded flood stage at several points during June. It crested 0.5 foot over flood stage at Toston, MT, on the 24th due to heavy rains over the headwaters as discussed above. The heavy spring runoff in Montana with record flows in the Mussellshell and well above normal flows in the Missouri, Yellowstone, and Milk Rivers resulted in record pool elevations of the Fort Peck and Garrison Reservoirs. At Williston, ND, in the pool of Garrison Reservoir, flood stage was exceeded on the 10th and flooding continued into July. However, the town itself is protected by levees so only lowland outside the levees was affected. On the lower Missouri, heavy inflow from the several tributaries as discussed above caused minor flooding at St. Joseph and Lexington, MO.	0	N/A
	OHIO BASIN		
Kanawha River Basin	Flash flooding was reported from two small streams at Sutton, WV, where 3 inches of rain fell in 45 minutes on the 15th. Several small bridges were washed out.	0	N/A
Wabash River Basin	Rainfall over the upper portion of the basin was well above normal for the month with some stations receiving 200% of normal.	0	2,600

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GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

JUNE 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	OHIO BASIN-Cont'd		
	Most of this rain occurred during the last half of the month with two periods of flooding resulting on the middle reach of the Wabash. The first period lasting from the 15th to the 22d was the most serious with crests ranging from 6 feet over flood stage at Lafayette, IN, to 1 foot over flood stage at Terre Haute. Minor flooding occurred on the 26th-28th from Lafayette to Montezuma. Crop losses were estimated at $2,500,000 by the Corps of Engineers with 25,000 acres affected. Severe urban flooding occurred in the westside of Indianapolis, IN, on the 25th. A record rainfall of 3.17 inches in one hour was recorded at Weir Crook Airport. The most serious damage occurred at the airport and was estimated at $100,000		
	WHITE BASIN		
Cache River	With the Cache River still at high stages and in slow recession from the long period of flooding which ended in late May, moderately heavy rainfall in excess of 1 inch on the 10th-11th and 15th-16th caused two brief periods of minor flooding the 13th-14th and 20th-28th.	0	N/A
	ARKANSAS BASIN		
Rattlesnake Creek	Rains of 2 to 4 inches fell in about 3 hours early on the 23d causing the most serious flooding of recent years, according to the Kiowa County Engineer. There are no gages along the stream. Because of frequent overflow onto the flood plain, there are no buildings to be damaged. However, 2 county bridges, the approaches to 11 others, and 35 roads were washed out.	0	225
Arkansas River Tributaries in Southeastern Kansas and Northern Oklahoma	Precipitation for June over southeastern Kansas averaged 137% of normal, ranging from 206% of normal in Kingman county to 78% in Chautaqua county. Chautaqua was the only county with below normal precipitation for the month. A ten-inch isohyet thirty miles in diameter was located 25 miles southwest of Wichita. An area with 9 to 13 inches of rain for June, thirty miles wide was located from near Cottonwood Falls, KS, to just east of Newton, KS. Florence, KS with 13.48 inches recorded the greatest precipitation for June and Cedarvale with 3.13 inches the least. Above normal monthly totals were also reported in the northern Oklahoma portion of the basin. Flash flooding occurred on three separate occasions inundating approximately 250,000 acres with an unknown dollar damage value. Five	0	N/A

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ARKANSAS BASIN-Cont'd		
	thousand acres were inundated in the Whitewater, Little Arkansas, and upper Walnut River basins on the 8th. Approximately 200,000 acres were inundated on the 16th on the Chikaskia, south fork of the Ninnescah, and upper Cottonwood River basins. On the 16th nearly 6 inches of rain fell in less than 6 hours at Florence, KS, on the Cottonwood River. An area 30 miles in diameter and located about 25 miles southwest of Wichita received 5 to 6 inches of rain on the evening of the 16th. Greatest damage occurred to the ripening wheat crop, with lesser damage to milo and alfalfa. Bridges, roads, and culverts also suffered damage. Flash flooding to a lesser degree occurred in the towns of Peabody and Florence, KS.		
	Main stream flooding occurred on the Cottonwood, Verdigris, Little Arkansas, Whitewater, Ninnescah, Chikaskia, and lower portions of the Walnut, Neosho, and Arkansas River basins. Crests were generally 1 to 5 feet above flood stage. Exceptions to the above were on the Chikaskia River at Corbin, KS, where a crest of 22 feet occurred on the 17th. This was 12 feet above flood stage. At Cedar Point, KS, Cedar Creek crested at 17 feet, 7 feet above flood stage.		
	In Oklahoma flooding was reported on Black Bear Creek and the Salt Fork, Cimarron, Little, Deep Fort, Poteau, and Chikaskia Rivers. Crests were generally in the range of about 1 to 3 feet over flood stage except on the Chikaskia River at Blackwell and the Poteau River where 5 to 6 feet of flooding occurred.		
	Extensive crop damage occurred, particularly to wheat, but the amount is not known. Damage to bridges, roads, and culverts amounted to $543,000 and other losses, including the cost of flood protection totaled $1,050,000.		
	RED BASIN		
Red River Tributaries in Oklahoma and Texas	Heavy localized thunderstorm rainfall caused some flooding on the Salt Fork, Washita, and Blue Rivers in Oklahoma during June. Crests were in the range of 1 to 2.5 feet over flood stage. Flooding of pastureland occurred along the Sulphur River in Texas with crests of 2.5 and 3.7 feet above flood stage at Hagansport and Naples, respectively.	0	N/A
Ouachita River Basin	Flooding continued from May on the lower Ouachita, ending on the 9th at Monroe and Columbia Lock & Dam, LA. Rainfall during June was well above normal; 3-5 inches above normal over the mountainous headwaters. Heaviest rainfall	0	N/A

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Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	RED BASIN-Cont'd		
	occurred during the period of the 11th-14th and caused only minor flooding on the Ouachita River from Camden to Monroe. Locally heavy rainfall during this period caused flash and urban flooding in several localities. In Franklin Parish about 15 families were evacuated from South Winnesboro on the 10th. Flooding came from Ash Slough and Turkey Creek. Although there are no stations on these streams, water levels were reported to be the second highest since 1927 and the highest since 1953. In Winn Parish nearly 9 inches of rain on the 10th flooded all highways leading into Winnfield, LA, and forced evacuation of more than 30 residences there. In Lincoln Parish, 2.5 inches in several hours on the 12th caused some urban flooding in Ruston.		
Black and Lower Red Rivers (Louisiana)	Flooding continued from May on the Black River ending on the 3d at Acme. Locally heavy rain caused a secondary crest on the 16th at Jonesville Lock and Dam, where flooding ended on the 24th. Flooding continued on the lower Red below Alexandria until the 20th. No reporting stations in this reach. Urban flooding occurred in Natchitoches Parish on the 10th with reports of 13.1 and 10.5 inches of rain in 7 hours at and near Bellwood. A number of streets and highways were closed.	0	N/A
	LOWER MISSISSIPPI BASIN		
Lower Mississippi Basin	Rainfall for June was much above normal for southeast Louisiana with New Orleans recording a total of 14.44 inches for the month. Urban flooding occurred over portions of New Orleans on several occasions. Street flooding with up to 3 feet of water was reported in East New Orleans on the 12th. A ten-year old boy was drowned in a drainage canal. Urban flooding was also reported on the 23d, 24th, and 29th. The Amite River crested 1.3 feet over flood stage on the 11th at Denham Springs, LA.	1	N/A
	WEST GULF OF MEXICO DRAINAGE		
Atchafalaya River Basin (Louisiana)	Monthly rainfall totals were well above normal ranging up to the 13.0 inches reported at Morgan City. The period of heaviest rainfall was the 10th-15th with urban flooding reported at Houma on the 10th and in the Gibson area on the 15th. The Atchafalaya River continued above flood stage the entire month at Morgan City aided by the heavy rainfall. However, no distinct	0	N/A

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	WEST GULF OF MEXICO DRAINAGE-Cont'd		
	crest occurred during June as the stream receded from the flood crest of April.		
Calcasieu River (Louisiana)	Flooding continued at Hineston from the heavy rains of late May, ending on the 4th. The storm of the 10th-15th caused flooding at Hineston with a crest 2 feet over flood stage on the 12th. Monthly rainfall was excessive over the basin ranging up to 11.48 inches at Sugartown.	0	N/A
Sabine River (Texas)	The heavy rains of late May caused minor flooding to begin at Mineola on the 1st and minor flooding continued on the lower Sabine at Bon Weir and Deweyville ending at all points during the first week of June. During the period of the 9th-10th a frontal system lying across Texas from about Del Rio to Texarkana was responsible for heavy rainfall over southern Texas. Amounts of 5 to 10 inches were common over the coastal areas. In the Sabine Basin storm totals ranged up to the 10.55 inches reported at Deweyville. From 1.5 to about 3 feet of flooding occurred along the Emory to Mineola reach and minor flooding at Deweyville.	0	N/A
Neches River Basin (Texas)	Lowland flooding which had been in progress for several months continued throughout June on the Neches River at Diboll and ended on the 27th at Lufkin on the Angelina River tributary. Minor flooding from the heavy rains of late May ended on the 2d at Beaumont. The storm of the 9th-10th caused record flooding along Pine Island Bayou. The crest at Sour Lake of 30.83 feet was the highest since 1917 when a stage of about 31 feet was reached as determined from floodmarks. A stage of 30.5 feet was reached in June 1973. Records began at Sour Lake in 1967. Flood stage there is 25 feet. Storm rainfall totals ranged up to the 17.51 inches reported at Sour Lake. Lumberton reported 12 inches. Extensive flooding was reported along the upper portion of Village Creek although the reporting station at Kountze apparently did not go over flood stage. Extensive damage occurred along Pine Island Bayou from above Sour Lake down to Beaumont where serious flooding also occurred with losses of $4,500,000. All of the inhabitants along Pine Island Bayou were evacuated including the 2,000 residents of Sour Lake. Crop damage of $175,000 was reported in Jefferson County. Eighteen month old twin infants were drowned in a flooded home in Port Arthur.	2	10,175

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Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	WEST GULF OF MEXICO DRAINAGE-Cont'd		
Trinity River Basin (Texas)	Flooding which began on the lower Trinity in April continued throughout June at Moss Bluff as a result of releases from Lake Livingston which also caused a period of flooding at Liberty. A secondary crest occurred at Moss Bluff on the 10th almost 4 feet over flood stage. This crest resulted from the storm of the 9th-10th which deposited 4 to 6.5 inches of rain over the lower reach of the river. This storm also caused flooding in the headwaters of the Trinity River with crests about 2.5 feet over flood stage at Corsicana and Dallas.	0	N/A
San Jacinto River Basin (Texas)	The storm of the 9th-10th caused serious urban and stream flooding in the Houston area, mainly from Sims Bayou. Deer Park in southeast Houston reported a storm total of 15.52 inches. Damage to homes and businesses in south and east portions of Houston was estimated at $1 million. The Gulf Freeway to Galveston was cut off on the evening of the 9th. No reporting stations went over flood stage.	0	1,000
Guadalupe River Basin (Texas)	Flooding from the heavy rains of late May continued into June, lasting until the 5th at Victoria and the entire month at Dupont. Releases from Canyon Dam helped to maintain high river stages. Rains of 2 to 3 inches occurred in the Gonzales area on the 9th-10th causing a crest 1.7 feet over flood stage at Gonzales.	0	N/A
Nueces River Basin (Texas)	The most significant flooding in the basin during June was a continuation of that which resulted from the heavy rainfall of late May. This flooding ended on the 2d at Calliham on the Frio River and on the 6th to 8th on the lower Nueces. Rains of 1 to 2 inches on the 9th-10th and about an inch late in the month caused some minor flooding at Cotulla and Calallen and prolonged flooding around Tilden until the 25th with a crest 3.5 feet over flood stage there on the 14th.	0	N/A
	GREAT BASIN		
Utah and Colorado Streams	A year that started out slightly below normal made a quick reversal in April to a wet and cold regime which continued through May and into the first part of June. Nevada, Colorado, and particularly the Wasatch Range of Utah were hard hit. Along the Wasatch Range precipitation was well above average in April and up to 400% of average in May. Cool temperatures in April and most of May delayed snowmelt so that snow packs were at record levels for the season when melting began. A very severe threat of extensive flooding existed in the Salt Lake City	1	N/A

GREAT BASIN-Cont'd

area but alternate periods of warming and cooling eased the snow pack melt with the result of only minor flood damage, caused mostly by debris-clogged channels and culverts.

Flooding occurred in southwestern Colorado, at many points in the Wasatch Range of Utah, and along the Humboldt River in Nevada. The heavy snows caused the inflow to Utah Lake in June to be 175,000 acre-feet, which was the highest month of record and 300% of normal. The Great Salt Lake reached 4201.55, which was .20 feet higher than that last year and the highest it has been in 45 years. A discussion of the more significant events follows:

Urban flooding occurred on Main Street in Salt Lake City on the 3d, as a thundershower dumped heavy rains into the streets, where the sewer system was already filled to capacity from snowmelt runoff. High water lapped at the doorsteps of numerous businesses and department stores.

Temperatures finally reached the 90° mark on the 6th resulting in minor snowmelt flooding of Big and Little Cottonwood Creeks and American Fork Creek on the 8th. High flows from these creeks and significant outflows from Utah Lake resulted in flooding along the Jordan River, which caused some pastureland flooding and partial inundation of Meadowbrook Golf Course.

Flooding also occurred below Deer Creek Dam on the 10th and 11th as releases were increased to allow more storage in the event of high inflow peaks. The high flows resulted in flooding of 2 picnic campgrounds and sandbagging along several residences in the canyon.

On the 15th to the 17th, additional minor flooding along Big and Little Cottonwoods as a lower secondary snowmelt peak continued to present problems to residences in lower areas of the stream channels. Sandbagging and heavy equipment was used to prevent significant damages.

On the 19th, Mill Creek in Salt Lake City flooded in vicinity of 5th East as a result of rains on a stream virtually bankfull as a result of snowmelt.

On the 21st, a flash flood occurred on Burch Creek near Riverdale, UT. The flooding occurred during the night as 1.3 inches of rain fell. Much of the damage resulted from the replacement of a 20 foot culvert by 2, 2-feet diameter culverts thus damming up water.

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GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

JUNE 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	GREAT BASIN-Cont'd		
	Homes were flooded, a sewer line was washed out, and some damage to acreage occurred. Actual damage estimates were not available but probably approached $10,000. One death occurred when a car was driven into a flooding stream, drowning the driver.		
Humboldt River	Flooding of lowlying agricultural land occurred along the Humboldt River as a result of the excessive snowmelt runoff.	0	N/A
	PACIFIC SLOPE DRAINAGE		
Upper Columbia River Basin	A record flood crest of 13.93 feet occurred on the Clark Fork River above Missoula, MT, on the 21st. The previous record was 13.35 feet in 1964. Flood stage there is 11 feet. As in 1964 the flooding was due to heavy rains which crossed the Continental Divide from the headwaters of the Missouri River where flooding also occurred as previously discussed. These rains came near the end of the snowmelt runoff with streams still high. Some residential damage occurred in the Missoula area. Two families were evacuated upstream at Drummond, MT, and a section of the Milwaukee Railroad mainline was washed out. Some homes were flooded at Elliston, MT, on the Little Blackfoot River. Flooding also occurred in the Flathead River Basin, but was apparently well below the record flood of 1964, although the gage on the Middle Fork of the Flathead River at West Glacier, MT, was washed out and flood data is not currently available. A section of the Burlington Northern Railroad's mainline was washed out. Glacier National Park and U.S. Hwy. 2 were closed for several days. A crest nearly 4 feet over flood stage occurred on the Flathead River at Columbia Falls, MT. Many trailer homes located on the flood plain were moved before flooding occurred.	0	N/A
	ALASKA		
Yukon River Basin	The lower Yukon River remained over bankfull at Russian Mission for the first 26 days of the month due to high snowmelt runoff and to the draining off of the huge lake impounded by the Holy Cross ice jam in May. In the headwaters of the Yukon, unusually low stages were noted on the Chatanika River. No stage records are available for comparative purposes.	0	N/A
	PUERTO RICO		
	June rainfall averaged about 50% of the normal for the month as drought conditions continued to intensify over most of the island. Several areas along the southern coast and slopes	1	N/A

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	PUERTO RICO-Cont'd		
	received no rain and many zones averaged less than .05 for the period. Agricultural drought reached serious proportions along both the southern and northern coasts where emergency aid was provided for cattle farmers whose pastures have been destroyed. Some water rationing started in towns along the southeast coast although most reservoirs on the island are still near capacity. Several days of heavy showers over the central portions of the island were reported the middle of the month with amounts totaling 2 to 5 inches. No stream flooding was reported although rivers in the area of Ponce were swollen for several days. One death occurred when a man drowned trying to cross a river near Ponce. Minor street flooding and some local ponding in the low lying areas of Ponce were reported due to poor drainage conditions, otherwise no significant flooding occurred.		

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FLOOD STAGE DATA

River and station	Flood stage	Above flood stages —dates From—	 To—	Crest Stage	 Date
	Ft.			Ft.	
HUDSON BAY DRAINAGE					
Souris River:					
Foxholm 3E, ND	10	Apr 23	5	15.69	May 16
Minot 4W, ND	14	Apr 27	4	20.35	May 14
Minot, ND (Broadway Bridge)	MSL1549	Apr 27	U	1554.79	May 15
Logan, ND	36	B	U	37.14	May 14
Sawyer, ND	22	Apr 28	U	23.72	May 16
Velva, ND	MSL1505	[illegible]	4	1508.22	May 16
Verendrye, ND	15	B	U	17.53	May 15
Bantry 8E, ND	11	B	1/	13.69	May 26
Westhope 7NE, ND	10	Apr 18	1/	16.54	May 8
Wild Rice River:					
Abercrombie, ND	10	30	1/	19.15	July 4
Maple River:					
Enderlin, ND	6	27	1/	15.41	30
Mapleton, ND	12	30	1/	15.03	July 2
Sheyenne River:					
Lisbon, ND	11	27	1/	19.07	July 1
West Fargo, ND	16.5	30	1/	22.20	July 5
S. Branch Buffalo River:					
Sabin, MN	12	21	1/	20.5	July 1
Buffalo River:					
Hawley, MN	[illegible]	21	1/	10.60	July 1
Dilworth, MN	12	21	1/	27.00	July 2
Wild Rice River:					
Twin Valley, MN	9.5	29	1/	11.44	July 1
Hendrum, MN	17	30	1/	32.06	July 9
Red Lake River					
High Landing, MN	9	29	1/	13.35	July 7
Red River of the North:					
Fargo, ND	17	21	1/	33.36	July 4
ATLANTIC SLOPE DRAINAGE					
Roanoke:					
Williamston, NC	10	13	14	10.0	13-14
Rocky:					
Norwood, NC	15	1	1	#15.1	1
Lumber:					
Lumberton, NC	9	4	8	#10.11	5
Pee Dee:					
Cheraw, SC	30	2	2	30.4	2
Peedee, SC	19	5	10	21.6	7
Broad:					
Gaffney, SC	10	1	1	10.2	1
Blair, SC	14	May 31	5	20.1	May 31
Catawba:					
Lookout Shoals Reservoir, NC	100	1 12	3 14	101.9 102.6	1 13
Wateree:					
Wateree Reservoir, SC	100	2	5	101.0	3
Savannah:					
Clyo, GA	11	May 9	13	13.2	May 31
EAST GULF OF MEXICO DRAINAGE					
Apalachicola:					
Blountstown, FL	15	13 [illegible]	16 19	16.67 15.03	15 19
Tombigbee:					
Amory, MS	20	11	13	21.6	11
EAST GULF OF MEXICO DRAINAGE-Cont'd	Ft			Ft.	
Bouge Chitto:					
Franklinton, LA	11	10	12	12.0	10
Pearl:					
Bogalusa, LA	15	10	24	17.4	12
Pearl River, LA	12	11	17	14.9	14
Upper Mississippi Basin					
S. Fk. Crow River:					
Delano, MN	8	27	1/	8.8	July 1
Cedar River:					
Conesville, IA	10	19	29	11.77	27
Iowa River:					
Marshalltown, IA	13	14 18 27	16 25 29	15.00 15.75 15.18 13.85	15 19 23 27
Marengo, IA	14	19 23	20 29	14.08 16.71	20 25
Squaw Creek:					
Ames, IA	7	26	28	14.00	27
South Skunk River:					
Ames, IA (Blo Squaw Cr)	10	25	29	15.44	27
Oskaloosa, IA	15	18	1/	17.62 19.49	20 July 2
North Raccoon River:					
Jefferson, IA	10	20	23	10.7	21
Raccoon River:					
Van Meter, IA	13	18	19	14.0	19
North River:					
Norwalk, IA	18	12 19 25	12 21 28	18.58 19.90 21.00	12 20 27
Middle River:					
Indianola, IA	19	25	25	20.69	25
South River:					
Ackworth, IA	19	25 27	25 27	20.32 21.70	25 27
Des Moines River:					
Stratford, IA	14	24	29	19.36	25
Boone, IA	12	26	26	12.20	26
Des Moines 14th St., IA	21	27	29	22.18	27
Illinois River:					
La Salle, IL	20	15	21	22.0	19
Havana, IL	14	20	1/	15.2	28
Beardstown, IL	14	25	1/	14.9	28
Missouri Basin					
Big Hole River:					
Divide, MT	6.5	19	22	7.5	21
Melrose, MT	6	19	24	7.54	21
Jefferson River:					
Sappington, MT	9	20	30	10.4	23
Gallatin River:					
Gallatin Gateway, MT	32	U	U	33.05	25
Logan, MT	7.5	7 16 24	9 16 28	8.0 7.6 8.2	8 16 25-26
Sun River:					
Simms, MT	8.5	19	22	12.48	20
Great Falls, MT (14th St.)	15	19	30	21.0	21
Musselshell River:					
Harlowton, MT	7	19	23	10.02	20

FLOOD STAGE DATA

River and station	Flood stage	Above flood stage—dates		Crest	
		From	To	Stage	Date
	Ft			Ft	
[illegible]					
Shields River:					
[illegible], MT	[illegible]	19	[illegible]	[illegible]	[illegible]
[illegible]					
Columbia, SD	[illegible]	May [illegible]	[illegible]	A15.28	[illegible]
Stratford, SD	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]					
[illegible], IA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible], IA	[illegible]	[illegible] [illegible]	[illegible] [illegible]	16.1 [illegible]	[illegible] [illegible]
Little Sioux River:					
[illegible], IA	[illegible]	[illegible] [illegible]	[illegible] [illegible]	14.97 13.85	[illegible] [illegible]
[illegible], IA	[illegible]	[illegible] [illegible]	11 [illegible]	14.38 16.3	[illegible] [illegible]
Peterson, IA	[illegible]	[illegible]	[illegible]	16.3	[illegible]
[illegible], IA	[illegible]	[illegible]	[illegible]	17.37	[illegible]
Nishnabotna River:					
[illegible], IA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
One Hundred and Two River:					
Maryville, MO	[illegible]	[illegible]	[illegible]	14.3	[illegible]
[illegible], MO	[illegible]	[illegible]	[illegible]	17.80	[illegible]
Platte River:					
Agency, MO	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Sappa Creek:					
Oberlin, KS	[illegible]	[illegible]	[illegible]	16.53 14.45	[illegible]
South Fork Solomon River:					
Osborne, KS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Solomon River:					
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Little Blue River:					
Hollenberg, KS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Black Vermillion River:					
Frankfort, KS (Hwy. 9)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Soldier Creek:					
Delia, KS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]					
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Little Blue River:					
[illegible], MO	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Grand River:					
Sumner, MO	[illegible]	May [illegible]	[illegible]	[illegible]	[illegible]
Brunswick, MO	[illegible]	[illegible] [illegible]	[illegible] [illegible]	12.81 13.12	[illegible] [illegible]
Salt Creek:					
Lyndon, KS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Pottawatomie Creek:					
Garnett, KS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Mapmaton River:					
Ft. Scott, KS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Little Osage River:					
Fulton, KS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Marais Des Cygnes River:					
Reading 3N, KS	[illegible]	[illegible] [illegible]	[illegible] [illegible]	[illegible] [illegible]	[illegible] [illegible]
Pomona 2S, KS	[illegible]	[illegible]	18	30.01	[illegible]
Ottawa, KS	[illegible]	[illegible]	19	[illegible]	[illegible]
Osawatomie, KS	[illegible]	[illegible]	21	34.1	[illegible]
Missouri Basin-Cont'd					
Marais Des Cygnes River-Cont'd:					
Lacygne, KS	[illegible]	[illegible]	[illegible]	29.25	[illegible]
Trading Post, KS	[illegible]	[illegible]	[illegible]	#24.55	[illegible]
State Line, KS	[illegible]	[illegible]	[illegible]	25.1	[illegible]
Missouri River:					
Toston, MT	[illegible]	[illegible]	[illegible]	10.48	[illegible]
Williston, ND	[illegible]	[illegible]	[illegible]	24.80	July 21
St. Joseph, MO	[illegible]	[illegible]	[illegible]	17.4	[illegible]
Lexington, MO	[illegible]	[illegible]	[illegible]	22.0	[illegible]
Ohio Basin					
Wabash:					
[illegible], IN	[illegible]	[illegible] [illegible]	[illegible] [illegible]	17.07 11.68	[illegible] [illegible]
[illegible], IN	[illegible]	[illegible] [illegible]	[illegible] [illegible]	20.05 16.10	[illegible] [illegible]
[illegible], IN	[illegible]	[illegible] [illegible]	[illegible] [illegible]	17.07 [illegible]	[illegible] [illegible]
Terre Haute, IN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]					
[illegible]					
Patterson, AR	[illegible]	[illegible] [illegible]	[illegible] [illegible]	7.4 7.9	[illegible] [illegible]
[illegible]					
Little Arkansas:					
Sedgwick, KS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Ninnescah:					
Peck, KS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Walnut:					
Arkansas City, KS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Whitewater:					
[illegible], KS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Chikaskia:					
Corbin, KS	[illegible]	[illegible]	[illegible]	22.06	[illegible]
Blackwell, OK	[illegible]	[illegible]	[illegible]	31.81	[illegible]
Salt Fork:					
Tonkawa, OK	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Black Bear Creek:					
Pawnee, OK	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Cimarron:					
Dover, OK	[illegible]	[illegible]	[illegible]	19.60	[illegible]
Guthrie, OK	[illegible]	[illegible]	[illegible]	#13.22	[illegible]
Perkins, OK	[illegible]	[illegible]	[illegible]	13.86	[illegible]
Verdigris:					
Independence, KS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Cedar Creek:					
Cedar Point, KS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Cottonwood:					
Florence, KS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Cottonwood Falls, KS	[illegible]	[illegible] [illegible]	[illegible] [illegible]	[illegible] [illegible]	[illegible] [illegible]
Plymouth, KS	[illegible]	[illegible] [illegible]	[illegible] [illegible]	[illegible] [illegible]	[illegible] [illegible]
Emporia, KS	[illegible]	[illegible] [illegible]	[illegible] [illegible]	[illegible] [illegible]	[illegible] [illegible]
[illegible]					
Leroy, KS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible], KS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Chanute, KS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

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FLOOD STAGE DATA

River and station	Flood stage	Above flood stages –dates From		Above flood stages –dates To	Crest Stage	Crest Date	
	Ft				Ft		
Arkansas Basin-Cont'd							
Neosho-Cont'd:							
Oswego, KS	17		15	24	21.70		19
Commerce, OK	15		17	22	18.45		20
Little:							
Tecumseh, OK	11		16	18	11.9		17
Deep Fork:							
Beggs, OK	18	May	28 10	1 2	22.18 18.68		29 10
Poteau:							
Panama, OK	24		17	20	29.36		18
Arkansas:							
Arkansas City, KS	17		18	19	19.42		18
Ponca City, OK	MSL 914		19	20	914.6		19
Red River Basin							
Salt Fork:							
Mangum, OK	9		23	25	#11.20		24
Washita:							
Carnegie, OK	18		U	U	119.0		25
Blue:							
Blue, OK	21		9	10	23.51		9
Sulphur:							
Hagansport, TX	14		8	13	16.45		10
Naples, TX	22		11	20	25.68		16
Ouachita:							
Camden, AR	26		14	14	26.3		14
Monroe, LA	40	May	5 11	4 18	44.19 40.20	May	18-19 13
Columbia L/D, LA	65	May	7	9	67.1	May	17-18
Black:							
Jonesville L/D, LA	50	Apr	14	24	A51.7		16
Acme, LA	48		B	5	A51.6	May	13 16
Lower Mississippi Basin							
Amite:							
Denham Springs, LA	25		11	12	26.31		11
WEST GULF OF MEXICO DRAINAGE							
Atchafalaya:							
Morgan City, LA	4	Feb	9	17	7.85	Apr	22
Calcasieu:							
Hineston, LA	12	May	31 11	4 17	15.86 13.99	May	31 12
Sabine:							
Emory, TX	12		13	18	13.41		16
Mineola, TX	14		1 14	5 23	14.93 17.20		3 18
Bon Weir, TX	17	May	29	2	17.21	May	29
Deweyville, TX	14	May	9 13	6 18	14.66 14.24		2 15
Angelina:							
NR Lufkin, TX	8		B	27	A12.9	Feb	2
Pine Island Bayou:							
Sour Lake, TX	25		10	20	30.55		11
Neches:							
NR Diboll, TX	10		B	17	A14.0	Feb	17
Beaumont, TX	4	May	30 10	3 16	5.[illegible] 5.[illegible]	May	31 1
East Fork Trinity:							
Crandall, TX	15	May	30	1	13.99	May	31

River and station	Flood stage	Above flood stages –dates From		Above flood stages –dates To	Crest Stage	Crest Date	
	Ft				Ft		
WEST GULF OF MEXICO DRAINAGE-Cont'd							
Chambers Creek:							
NR Corsicana, TX	20	May	22 9	1 9	24.43 22.35	May	25 9
Trinity:							
Dallas, TX	30		9	20	32.55		12
Long Lake, TX	35	May	28	6	41.04	May	31
Liberty, TX	24		1	15	25.17		11
Moss Bluff, TX	14	Apr	9	1	A7.85		10
Navasota:							
NR Bryan, TX	12		1	4	17.22		1
Nividad:							
NR Ganado, TX	24	May	26	3	28.96	May	27
Guadalupe:							
Gonzales, TX	20		11	13	21.7		12
Victoria, TX	21	May	25	5	28.85	May	29
Dupont, TX	20	May	25	1/	#27.0	May	30,31
Frio:							
Calliham, TX	12		B	2	26.02	May	31
Neuces:							
Cotulla, TX	15		26	30	15.7		28
Tilden, TX (115)	14	May	30	25	17.54		11
Mathis Bridge, TX	15	May	26	6	28.23	May	29
Calallen, TX	7	May	27 12 15 26	8 14 22 27	9.04 7.1 7.20 7.0	May	31 14 17 26
Columbia Basin							
M. F. Flathead:							
West Glacier, MT	6		U	U	U		U
Flathead:							
Columbia Falls, MT	13		19	22	16.85		20
Clark Fork:							
Missoula (above), MT	11		19	23	13.92		21
Henrys Fork:							
Rexburg, ID	9	May	31 16 20 27	13 17 21 27	10.21 9.03 9.07 9.07		5 16,17 21 27
Portneuf:							
Pocatello, ID	8	May	16	11	9.39	May	20
Boise:							
Boise, ID	7	Apr	5	2	7.34	May	14,15 24,27

A See previous monthly reports for additional crest information.

B In flood at beginning of month-date unknown.

RAWINSONDE DATA

Average monthly values

ALBANY, NY — 1007 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	30	86	16.6	14.3	22	[illegible]
1000	28	169	16.5	12.6	19	1.1
950	30	583	14.9	10.3	23	2.0
900	30	1,040	12.9	8.0	26	3.4
850	30	1,519	10.4	4.2	28	4.8
800	30	2,021	7.4	.2	28	4.8
750	30	2,551	5.4	-5.7	28	5.2
700	30	3,112	2.4	-9.8	28	6.2
650	30	[illegible]	-.6	-11.7	28	7.0
600	30	4,344	-4.3	-15.5	28	8.0
550	30	5,025	-7.6	-21.3	28	8.8
500	30	[illegible]	-12.1	-26.7	27	9.9
450	30	6,559	-17.5	-32.3	27	11.1
400	30	7,430	-23.7	-37.4	27	12.5
350	30	[illegible]	-30.9	-41.6	27	13.6
300	30	9,467	-39.1	-49.0	27	14.6
250	30	[illegible]	-47.7		28	16.9
200	30	[illegible]	-55.2		29	18.0
175	30	12,988	-57.9		30	17.2
150	30	13,956	-59.5		29	13.3
125	30	15,097	-59.5		29	11.0
100	30	16,495	-59.2		30	6.8
80	30	17,896	-58.2		34	3.1
70	30	18,739	-56.6		02	2.3
60	30	19,719	-55.7		05	2.7
50	30	20,884	-54.3		08	4.8
40	30	22,320	-52.5		08	6.6
30	29	24,192	-49.8		09	8.8
25	27	25,395	-47.9		09	9.9
20	26	26,878	-44.9		08	11.0
15	23	28,820	-42.2		09	11.7
10	9	31,597	-37.9			
7						

ALBUQUERQUE, NM — 837 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	30	1,619	15.[illegible]	.7	10	1.1
800	30	2,007	17.1	-2.6	23	.8
750	30	2,554	13.9	-5.6	[illegible]	3.0
700	30	3,131	9.9	-9.1	28	4.9
650	30	3,742	5.2	-12.0	[illegible]	6.0
600	30	4,389	-.2	-14.6	26	7.6
550	30	5,078	-5.6	-18.2	25	9.5
500	30	5,818	-11.2	-23.2	25	11.8
450	30	6,619	-16.5	-31.4	26	12.7
400	30	7,493	-23.0	-38.2	26	13.1
350	30	8,460	-30.4	-44.8	25	14.6
300	30	9,534	-38.[illegible]	-52.1	26	15.5
250	30	10,761	-47.8		25	19.4
200	30	12,207	-55.4		25	22.1
175	30	13,052	-58.2		25	21.9
150	30	14,016	-61.1		25	19.4
125	30	15,140	-64.3		26	15.3
100	29	16,501	-65.5		26	7.5
80	29	17,865	-63.3		22	1.3
70	29	18,690	-61.1		10	2.1
60	29	19,651	-59.3		09	4.8
50	29	20,801	-56.5		09	6.6
40	28	22,221	-54.4		09	7.8
30	28	24,079	-51.1		09	9.5
25	26	25,272	-49.3		09	10.2
20	23	26,748	-46.6		09	10.7
15	18	28,671	-42.7		09	10.0
10	12	31,405	-39.0		09	12.4

AMARILLO, TX — 899 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	30	1,095	16.8	13.2	18	[illegible]
850	30	1,481	18.6	10.3	20	8.6
800	30	2,001	17.6	3.9	21	8.2
750	30	2,550	14.5	.1	23	6.8
700	30	3,129	10.6	-4.8	25	6.1
650	30	3,741	5.7	-7.7	26	6.2
600	30	4,390	.4	-12.6	27	7.2
550	30	5,080	-5.2	-16.9	27	7.9
500	30	5,821	-10.6	-23.9	27	8.2
450	30	6,624	-15.8	-30.6	26	9.1
400	30	7,501	-22.0	-36.6	26	11.0
350	30	8,472	-29.5	-41.8	26	12.8
300	30	9,551	-37.8	-48.1	25	15.6
250	30	10,783	-47.1		25	18.3
200	30	12,229	-55.9		26	22.2
175	30	13,073	-59.1		26	22.4
150	30	14,033	-62.1		26	19.0
125	30	15,152	-64.6		26	14.9
100	30	16,510	-65.6		26	7.2
80	30	17,873	-63.6		18	1.3
70	29	18,698	-61.4		11	2.3
60	29	19,658	-59.4		09	5.2
50	29	20,807	-56.6		09	7.2
40	29	22,230	-54.4		09	8.7
30	29	24,090	-50.7		09	9.9
25	29	25,284	-48.7		09	9.8
20	27	26,763	-45.9		09	11.8
15	23	28,699	-42.8		09	12.4
10	5	31,392	-39.2			

• ANCHORAGE, AK — 1009 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	30	45	9.2	5.[illegible]	17	3.[illegible]
1000	26	130	9.9	[illegible]	17	3.[illegible]
950	30	539	7.9	1.7	18	4.[illegible]
900	30	983	4.8	.[illegible]	17	3.[illegible]
850	30	1,447	1.3	-1.8	15	[illegible]
800	30	1,933	-1.1	-4.8	14	3.3
750	30	2,446	-3.9	-7.9	14	3.5
700	30	2,988	-6.6	-11.5	14	3.7
650	30	3,564	-9.7	-14.7	14	3.6
600	30	4,178	-13.3	-19.4	13	3.4
550	30	4,836	-17.1	-25.4	13	3.[illegible]
500	30	5,544	-21.8	-30.3	14	3.[illegible]
450	30	6,312	-27.1	-36.8	15	3.4
400	30	7,150	-33.3	-42.4	16	3.5
350	30	8,078	-40.3	-46.4	17	3.6
300	30	9,109	-47.3		18	3.7
250	30	10,307	-49.2		24	5.[illegible]
200	30	11,780	-46.4		23	5.7
175	30	12,669	-46.1		23	5.[illegible]
150	30	13,694	-46.7		22	4.4
125	30	14,902	-47.5		23	3.[illegible]
100	30	16,376	-47.7		20	2.7
80	30	17,848	-48.1		18	1.7
70	30	18,728	-48.4		15	1.9
60	30	19,744	-48.2		13	2.[illegible]
50	30	20,946	-48.0		12	3.[illegible]
40	30	22,421	-47.2		10	4.1
30	29	24,335	-45.7		09	6.[illegible]
25	28	25,546	-44.5		09	7.3
20	27	27,056	-42.5		09	8.9
15	25	29,013	-39.7		09	10.[illegible]
10	19	31,786	-34.7		09	11.4
7	5	34,174	-29.2			

• ANNETTE, AK — 1014 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	30	37	[illegible]	5.4	[illegible]	.6
1000	[illegible]	[illegible]	[illegible]	4.8	[illegible]	.4
950	[illegible]	574	[illegible]	2.7	20	1.1
900	30	1,015	[illegible]	.1	20	1.9
850	30	1,476	.6	-4.0	21	2.8
800	30	1,962	-1.5	-5.3	21	3.1
750	[illegible]	2,474	-3.8	-10.0	22	4.2
700	[illegible]	3,016	-6.5	-15.0	23	4.5
650	[illegible]	3,593	-9.2	-20.2	24	4.9
600	[illegible]	[illegible]	-12.5	-23.0	25	5.6
550	30	4,868	-16.4	-26.4	25	5.9
500	[illegible]	5,578	-21.1	-30.6	26	7.0
450	29	6,347	-26.4	-35.3	26	7.6
400	29	7,188	-32.4	-41.5	27	9.1
350	29	[illegible]	-38.9	-44.6	27	10.9
300	29	9,160	-45.2		27	[illegible]
250	29	[illegible]	-49.3		28	13.9
200	29	11,824	-50.3		29	10.8
175	29	12,698	-49.2		29	8.0
150	29	[illegible]	-49.5		28	7.0
125	29	14,902	-50.5		28	4.3
100	29	[illegible]	-50.7		27	[illegible]
80	29	17,807	-51.3		34	.3
70	29	18,675	[illegible]		03	.7
60	29	19,676	-51.3		[illegible]	[illegible]
50	29	[illegible]	-50.6		09	3.4
40	29	22,321	[illegible]		08	5.0
30	28	24,211	[illegible]		09	7.2
25	26	25,416	-46.6		09	8.5
20	26	26,904	-44.6		[illegible]	10.0
15	23	28,846	-41.6		09	10.4
10	13	31,633	-37.5		08	14.5

ATHENS, GA — 989 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	30	[illegible]	19.1	17.4	33	.8
1000						
950	30	590	20.7	14.2	34	1.6
900	30	1,057	18.3	11.1	33	[illegible]
850	30	1,544	14.9	6.8	32	[illegible]
800	30	2,056	12.3	3.1	31	1.2
750	30	2,594	9.2	-1.2	29	2.4
700	30	[illegible]	5.8	-4.9	29	3.6
650	30	3,766	3.0	-11.3	29	3.6
600	30	4,410	-1.0	-14.1	28	3.9
550	30	5,100	-4.8	-18.4	28	3.9
500	30	5,843	-9.3	-23.5	27	4.1
450	30	6,650	-14.3	-27.1	26	4.9
400	30	7,533	-20.2	-34.4	27	4.9
350	30	8,511	-27.4	-41.4	26	5.1
300	30	9,599	-36.0	-48.0	26	5.8
250	30	10,839	-45.8		27	8.0
200	30	12,293	-55.7		28	11.4
175	30	13,135	-60.1		28	11.5
150	30	14,088	-63.9		28	9.0
125	30	[illegible]	-66.2		28	8.2
100	30	16,549	-66.3		31	3.6
80	29	17,904	-64.6		04	2.2
70	29	18,724	-62.5		07	4.2
60	28	19,684	-59.9		08	7.0
50	28	20,830	-57.3		09	8.1
40	28	22,249	-54.8		09	8.2
30	28	24,103	-51.7		09	9.7
25	27	25,291	-50.0		09	11.9
20	24	26,766	-47.2		09	13.2
15	20	28,680	-44.7		09	14.1
10	7	31,438	-38.4			

• BARROW, AK — 1013 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	30	8	-.1	-.5	10	2.3
1000	28	122	-.5	-1.0	10	3.8
950	30	525	.4	-2.3	13	3.6
900	30	959	.0	-5.6	16	3.6
850	30	1,415	-1.5	-9.4	17	3.6
800	30	1,897	-3.1	-11.7	20	4.4
750	30	2,405	-5.7	-15.0	21	5.4
700	30	2,944	-8.6	-19.1	21	6.2
650	30	3,515	-12.0	-22.2	22	6.9
600	29	4,124	-15.6	-25.3	22	7.6
550	29	4,775	-20.1	-29.5	22	8.6
500	29	5,475	-24.8	-34.8	23	10.1
450	29	6,234	-30.0	-40.9	23	11.7
400	29	7,062	-35.9	-45.5	23	13.2
350	29	7,980	-42.6	-43.7	23	14.8
300	29	9,003	-49.0		23	15.5
250	29	10,200	-47.1		23	11.5
200	28	11,696	-43.0		23	7.2
175	28	12,598	-42.4		22	5.8
150	28	13,639	-43.0		23	4.8
125	27	14,870	-43.3		22	4.1
100	27	16,370	-44.0		22	3.2
80	27	17,866	-44.4		20	2.2
70	27	18,761	-44.5		18	1.6
60	24	19,796	-44.3		15	1.5
50	22	21,016	-43.8		11	1.7
40	20	22,523	-43.3		11	2.4
30	17	24,466	-41.5		09	5.[illegible]
25	13	25,711	-40.3		08	5.0
20	8	27,240	-39.1			

BARTER ISLAND, AK — 1012 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	30	15	.2	-.2	08	3.2
1000	28	115	.7	.0	09	4.2
950	30	520	2.3	-.6	10	3.9
900	30	958	3.2	-3.0	11	2.7
850	30	1,422	3.1	-6.4	20	1.5
800	30	1,911	.8	-8.6	23	3.0
750	30	2,427	-2.3	-10.3	23	4.3
700	30	2,971	-6.0	-13.4	23	5.0
650	30	3,548	-9.3	-18.3	24	5.7
600	30	4,163	-13.0	-23.0	23	6.5
550	30	4,821	-17.3	-28.1	23	7.7
500	30	5,528	-22.3	-33.6	24	8.7
450	30	6,293	-28.1	-38.3	24	9.6
400	30	7,128	-34.4	-44.0	24	11.2
350	30	8,051	-41.3	-43.3	24	13.2
300	30	9,079	-48.3		24	14.7
250	30	10,268	-50.7		24	13.0
200	29	11,744	-44.8		23	8.3
175	29	12,639	-43.8		24	6.7
150	29	13,674	-44.1		24	5.9
125	29	14,897	-44.4		23	4.0
100	29	16,390	-45.1		21	2.6
80	29	17,881	-45.0		19	1.4
70	29	18,774	-44.9		17	1.3
60	29	19,805	-44.8		13	1.5
50	28	21,024	-44.3		10	2.3
40	27	22,516	-43.6		09	3.7
30	26	24,459	-42.2		09	5.8
25	25	25,698	-41.3		09	6.7
20	24	27,221	-39.8		09	7.3
15	23	29,191	-37.3		09	8.5
10	15	32,020	-32.2		09	9.3

BETHEL, AK — 1006 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	29	39	7.1	5.4	24	1.8
1000	23	111	8.3	4.7	23	1.5
950	29	511	7.3	1.9	19	2.2
900	29	955	4.7	.1	16	3.2
850	29	1,419	2.0	-1.9	16	3.6
800	29	1,906	-.6	-3.8	16	3.0
750	29	2,420	-3.5	-7.1	16	2.8
700	29	2,963	-6.4	-11.8	17	2.6
650	29	3,539	-9.3	-17.1	14	2.0
600	29	4,154	-12.9	-21.9	14	2.5
550	29	4,813	-16.9	-25.4	16	2.6
500	29	5,522	-21.6	-31.4	16	2.5
450	29	6,289	-27.2	-36.3	17	2.7
400	29	7,127	-33.7	-42.7	18	2.9
350	29	8,053	-40.6	-44.9	21	3.7
300	29	9,083	-48.2		21	4.8
250	29	10,271	-52.2		22	5.6
200	29	11,732	-46.8		22	5.2
175	29	12,619	-46.3		22	5.3
150	29	13,644	-46.2		21	5.0
125	29	14,853	-47.2		20	4.4
100	29	16,329	-47.4		18	3.3
80	29	17,802	-48.1		16	2.9
70	29	18,683	-48.2		15	2.7
60	29	19,698	-48.5		14	2.9
50	28	20,894	-48.6		12	3.3
40	27	22,371	-47.8		11	4.4
30	27	24,275	-46.6		10	5.4
25	26	25,487	-45.5		09	6.5
20	22	26,972	-43.8		09	7.9
15	19	28,923	-41.2		09	8.2
10	10	31,677	-36.2			

• BISMARCK, ND — 951 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	30	503	12.3	9.7	10	.7
950	21	532	12.6	9.9	12	1.1
900	30	970	15.0	6.9	19	2.4
850	30	1,452	12.3	4.2	23	3.1
800	30	1,958	8.9	1.8	25	4.2
750	30	2,489	5.3	-1.4	26	4.9
700	30	3,050	1.9	-6.9	26	5.1
650	30	3,644	-1.8	-10.2	27	6.3
600	30	4,277	-5.6	-15.4	26	8.3
550	30	4,953	-10.1	-20.4	25	8.9
500	30	5,681	-15.0	-24.5	25	10.9
450	30	6,470	-20.3	-30.8	25	12.1
400	30	7,331	-26.6	-37.2	25	13.9
350	30	8,285	-33.7	-43.6	25	15.8
300	30	9,345	-41.9	-46.1	25	17.5
250	30	10,559	-49.7		24	20.2
200	28	11,998	-53.7		24	19.0
175	28	12,856	-53.8		24	16.5
150	28	13,846	-53.9		25	13.5
125	27	15,017	-55.1		25	10.3
100	27	16,440	-55.7		25	4.6
80	27	17,862	-55.7		24	2.1
70	27	18,713	-55.3		11	.2
60	27	19,699	-54.3		09	1.8
50	26	20,876	-53.4		09	3.9
40	26	22,319	-51.0		09	5.7
30	25	24,189	-49.6		09	8.0
25	24	25,384	-48.3		09	9.4
20	19	26,851	-46.1		08	9.9
15	15	28,787	-42.7		09	11.7
10	9	31,524	-37.0			

BOISE, ID — 914 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	30	871	11.7	4.2	14	1.0
1000						
950						
900	30	997	13.5	2.7	10	.1
850	30	1,478	12.9	-.8	32	1.9
800	30	1,984	9.3	-2.8	31	3.3
750	30	2,516	5.4	-4.7	29	3.7
700	30	3,076	1.5	-8.0	28	5.4
650	30	3,669	-2.1	-12.2	27	6.8
600	30	4,300	-6.4	-15.5	27	8.1
550	30	4,975	-10.5	-21.4	27	9.6
500	30	5,702	-15.3	-25.8	27	10.7
450	30	[illegible]	-20.8	-31.7	27	10.8
400	30	7,349	-27.4	-38.0	27	11.7
350	30	[illegible]	-34.5	-44.8	27	13.1
300	30	9,356	-42.6	-48.9	27	15.1
250	30	10,565	-50.8		28	16.1
200	30	12,002	-54.6		28	15.7
175	30	12,857	-54.7		28	14.7
150	30	13,843	-54.8		27	11.9
125	30	15,005	-56.1		27	8.9
100	29	16,421	-57.3		27	4.7
80	29	17,831	-57.4		28	1.0
70	29	[illegible]	-56.9		07	[illegible]
60	29	19,655	-55.9		09	[illegible]
50	28	20,819	-55.0		08	4.6
40	[illegible]	[illegible]	-53.2		09	6.0
30	[illegible]	[illegible]	-50.5		08	7.8
25	[illegible]	25,310	-48.7		08	9.1
20	27	26,785	-46.5		09	10.9
15	24	[illegible]	-42.9		09	12.8
10	[illegible]	31,467	-37.6		09	14.0

BOOTHVILLE, LA — 1016 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	30	1	25.4	23.4	20	1.6
1000	30	139	25.4	22.2	19	2.5
950	30	589	22.2	19.2	19	3.7
900	30	1,059	19.7	13.8	19	3.9
850	30	1,550	16.7	9.6	20	3.6
800	30	2,065	14.0	5.1	20	3.6
750	30	2,607	11.0	.2	22	3.0
700	30	3,179	7.5	-4.0	25	3.4
650	30	3,786	3.[illegible]	-7.0	26	3.5
600	29	4,431	-.3	-11.4	28	3.8
550	28	5,123	-4.6	-16.2	28	4.0
500	28	5,867	-9.2	-20.7	[illegible]	4.2
450	28	6,675	-14.1	-27.8	29	5.2
400	28	7,559	-19.9	-34.4	28	6.4
350	28	8,538	-26.8	-39.1	28	9.2
300	28	9,630	-34.8	-47.1	28	11.8
250	28	10,878	-44.2		28	14.5
200	28	12,339	-55.1		29	16.5
175	28	13,181	-60.5		29	16.2
150	28	14,130	-65.1		29	13.4
125	28	15,230	-68.7		29	8.3
100	28	16,558	-70.5		30	3.5
80	27	17,894	-67.3		07	3.3
70	27	18,704	-65.0		08	5.4
60	26	19,654	-61.7		08	7.5
50	26	20,793	-58.0		09	8.8
40	26	[illegible]	[illegible]		[illegible]	10.7
30	25	24,057	-51.5		09	13.2
25	24	25,250	-49.4		[illegible]	14.1
20	21	26,721	-46.8		08	13.7
15	18	28,645	-43.8		08	15.4
10	12	31,380	-39.9			

• BROWNSVILLE, TX — 1012 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	30	7	24.5	22.9	14	2.7
1000	30	108	25.7	24.0	15	4.6
950	30	559	23.3	20.2	16	9.9
900	30	1,031	21.4	13.8	17	10.4
850	30	1,526	19.0	9.2	17	9.2
800	30	2,045	16.2	4.8	17	8.0
750	30	2,591	13.1	1.4	16	6.2
700	30	3,168	9.7	-3.4	16	4.0
650	30	3,779	5.9	-6.3	16	2.2
600	30	4,429	1.4	-10.4	20	1.2
550	30	5,124	-3.2	-12.1	25	.9
500	30	5,872	-7.9	-19.5	29	1.1
450	30	6,684	-12.8	-25.4	30	2.2
400	30	7,573	-18.4	-31.3	29	3.7
350	30	8,559	-25.4	-38.0	28	5.2
300	30	9,656	-33.7	-46.6	28	8.[illegible]
250	30	10,910	-43.4		27	11.[illegible]
200	30	12,373	-55.1		27	12.[illegible]
175	30	13,213	-61.4		27	11.6
150	30	14,156	-67.1		28	8.5
125	30	15,242	-72.2		29	5.[illegible]
100	30	16,547	-73.5		01	1.7
80	30	17,864	-69.0		07	6.7
70	30	18,667	-66.5		08	8.9
60	30	19,608	-63.1		09	9.[illegible]
50	30	20,740	-59.5		09	11.2
40	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
30	28	[illegible]	[illegible]		[illegible]	[illegible]
25	28	[illegible]	-49.[illegible]		[illegible]	[illegible]
20	23	26,642	-46.3		08	[illegible]
15	[illegible]	28,563	-43.4		08	16.1

BUFFALO, NY — 990 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	30	218	16.7	14.7	20	1.3
950	30	572	16.4	11.5	24	3.5
900	30	1,031	14.1	8.8	26	4.5
850	30	1,512	11.3	5.3	26	5.1
800	30	2,017	8.6	.4	27	5.5
750	30	2,548	5.6	-3.0	27	6.5
700	30	3,109	2.4	-7.0	27	7.6
650	30	3,705	-.6	-12.2	27	8.0
600	30	4,341	-3.9	-16.7	28	8.1
550	30	5,024	-7.7	-20.0	28	9.3
500	30	5,759	-12.4	-26.8	27	10.1
450	30	6,556	-17.6	-31.4	27	10.5
400	29	7,423	-24.0	-36.7	28	11.5
350	29	8,387	-30.9	-42.3	27	13.2
300	29	9,459	-39.2	-46.9	27	13.8
250	29	10,686	-47.5		28	15.4
200	29	12,135	-54.8		29	20.3
175	28	12,979	-57.1		29	18.2
150	28	13,950	-59.1		29	12.8
125	28	15,092	-59.6		29	10.9
100	28	16,490	-59.0		30	6.5
80	28	[illegible]	-58.3		[illegible]	2.4
70	27	18,740	-56.9		[illegible]	2.1
60	27	19,719	-55.7		06	2.7
50	27	20,885	-54.1		08	5.0
40	[illegible]	[illegible]	-52.2		08	7.2
30	23	24,199	-49.3		08	9.0
25	23	25,400	-47.1		[illegible]	10.3
20	[illegible]	[illegible]	-44.1		[illegible]	11.0
15	[illegible]	[illegible]	[illegible]			

CAPE HATTERAS, NC — 1017 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed
SFC	30	4	23.3	19.8	23	.3
1000	30	148	23.1	17.9	26	.4
950	30	594	20.3	14.9	[illegible]	1.4
900	30	1,059	17.1	12.2	[illegible]	[illegible]
850	30	1,545	14.2	5.7	30	[illegible]
800	30	2,055	11.5	2.2	30	[illegible]
750	30	2,593	8.9	-2.4	29	[illegible]
700	30	[illegible]	[illegible]	-6.3	[illegible]	[illegible]
650	30	3,766	2.9	-10.1	28	[illegible]
600	30	[illegible]	-.6	-16.5	[illegible]	[illegible]
550	30	[illegible]	-4.4	-20.1	28	[illegible]
500	30	5,844	-9.2	-24.2	28	[illegible]
450	30	6,652	-14.0	-28.2	28	[illegible]
400	30	7,536	[illegible]	[illegible]	[illegible]	[illegible]
350	30	8,514	-27.2	-39.0	27	[illegible]
300	29	9,600	[illegible]	-46.7	[illegible]	[illegible]
250	29	10,841	-45.7		27	[illegible]
200	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
175	[illegible]	[illegible]	-60.8		29	[illegible]
150	29	14,082	-63.9		29	[illegible]
125	[illegible]	[illegible]	-64.8		[illegible]	[illegible]
100	29	16,555	-65.3		[illegible]	[illegible]
80	29	17,918	-63.5		[illegible]	[illegible]
70	[illegible]	[illegible]	-61.5		05	[illegible]
60	29	19,704	-59.0		08	[illegible]
50	[illegible]	[illegible]	-56.7		08	[illegible]
40	[illegible]	[illegible]	-53.8		09	[illegible]
30	27	24,143	-50.4		09	[illegible]
25	26	[illegible]	-48.1		09	[illegible]
20	23	26,811	-45.7		[illegible]	[illegible]
15	[illegible]	[illegible]	-43.0		09	[illegible]
10	5	31,469	[illegible]			

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RAWINSONDE DATA

Average monthly values

* CARIBOU, ME
992 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	191	13.4	9.7	28	.3
1000						
950	30	558	13.7	4.7	27	1.8
900	30	1,013	11.6	2.6	28	2.6
850	30	1,488	8.5	1.3	27	2.0
800	30	1,987	5.3	-1.0	28	2.8
750	30	2,512	2.7	-7.2	28	4.3
700	30	3,068	.2	-12.6	29	5.1
650	30	3,658	-3.1	-14.8	28	6.6
600	30	4,289	-6.3	-18.7	29	7.4
550	30	4,964	-10.2	-22.8	29	7.4
500	30	5,693	-14.6	-28.0	29	9.0
450	30	6,483	-20.1	-33.0	29	10.4
400	30	7,345	-26.4	-37.7	29	11.4
350	30	8,299	-33.4	-42.9	29	12.3
300	30	9,360	-41.4	-47.8	29	15.0
250	30	10,576	-49.0		29	16.6
200	30	12,021	-54.5		29	17.3
175	30	12,873	-56.1		29	15.9
150	30	13,852	-56.1		29	12.2
125	29	15,008	-56.0		29	8.7
100	29	16,428	-55.9		30	5.3
80	29	17,850	-55.1		32	2.7
70	28	18,705	-54.2		01	1.9
60	28	19,695	-53.7		05	2.3
50	28	20,871	-52.5		08	4.4
40	26	22,317	-50.6		09	5.4
30	25	24,208	-48.9		09	8.1
25	24	25,409	-47.4		09	9.4
20	24	26,893	-44.9		09	10.9
15	22	28,831	-41.5		09	12.0
10	10	31,604	-37.1			

CENTREVILLE, AL
1001 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	140	19.5	18.5	05	.6
1000	21	160	19.9	18.0	07	1.3
950	30	592	21.4	15.5	19	2.7
900	30	1,060	18.7	12.5	21	3.5
850	30	1,548	15.7	7.3	21	2.9
800	30	2,061	12.9	2.5	22	2.4
750	30	2,600	9.9	-2.2	23	2.6
700	30	3,170	6.4	-6.3	25	2.5
650	30	3,774	2.7	-8.9	27	3.2
600	30	4,418	-1.2	-11.9	27	3.6
550	30	5,106	-5.4	-17.8	28	3.3
500	30	5,848	-10.2	-23.1	28	3.6
450	30	6,653	-14.9	-28.8	28	3.7
400	30	7,533	-21.1	-33.2	28	4.2
350	30	8,508	-28.0	-39.6	28	5.2
300	30	9,594	-36.1	-48.4	29	6.2
250	30	10,835	-45.5		29	9.2
200	30	12,289	-55.5		29	12.2
175	30	13,132	-60.1		29	12.4
150	30	14,086	-63.5		29	10.9
125	30	15,196	-66.8		29	8.0
100	30	16,539	-67.6		30	3.6
80	30	17,888	-65.3		04	2.1
70	30	18,705	-63.2		07	4.1
60	30	19,658	-60.9		08	7.2
50	30	20,801	-57.5		09	8.2
40	29	22,217	-55.4		09	8.8
30	28	24,070	-51.3		09	11.8
25	28	25,260	-49.4		09	11.9
20	26	26,727	-46.8		09	12.9
15	24	28,652	-42.9		09	13.0
10	14	31,414	-39.8		09	17.2

CHARLESTON, SC
1015 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	13	22.0	19.3	31	.6
1000	30	144	22.9	19.0	34	.7
950	30	591	21.4	15.2	32	1.0
900	30	1,058	18.5	12.9	28	1.0
850	30	1,547	15.6	8.8	30	1.8
800	30	2,060	12.9	3.5	29	2.3
750	30	2,600	10.1	-1.2	29	3.3
700	30	3,170	6.8	-3.8	28	3.3
650	30	3,775	3.2	-7.1	27	3.7
600	30	4,420	-.3	-12.5	27	3.9
550	30	5,112	-4.1	-16.4	27	4.3
500	30	5,858	-8.5	-21.8	27	4.5
450	30	6,668	-13.5	-25.0	27	5.2
400	30	7,553	-19.7	-30.5	27	5.1
350	30	8,534	-26.7	-37.8	28	5.3
300	30	9,624	-35.4	-45.6	27	6.7
250	30	10,867	-45.5		27	8.9
200	29	12,317	-56.2		28	11.0
175	29	13,156	-61.1		28	11.5
150	29	14,104	-64.9		29	9.9
125	29	15,211	-66.5		29	8.1
100	29	16,555	-67.7		32	3.1
80	29	17,909	-64.7		03	3.0
70	29	18,727	-63.2		06	5.1
60	29	19,683	-60.0		07	7.7
50	29	20,829	-57.1		09	9.4
40	29	22,255	-53.3		09	9.4
30	27	24,123	-49.9		09	9.9
25	27	25,319	-48.4		09	11.0
20	26	26,800	-45.6		09	11.1
15	23	28,729	-43.3		09	13.0
10	17	31,475	-39.3		09	14.8

CHATHAM, MA
1015 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	16	15.5	13.3	24	.7
1000	28	154	16.3	11.8	25	1.3
950	30	580	15.8	9.4	26	2.2
900	30	1,038	13.2	6.1	26	2.6
850	30	1,517	10.4	2.3	27	3.5
800	30	2,020	7.9	-1.4	28	4.2
750	30	2,550	5.2	-6.4	28	5.0
700	30	3,110	2.2	-10.5	28	6.2
650	30	3,706	-.8	-13.4	28	7.0
600	30	4,342	-3.5	-18.3	28	8.2
550	30	5,025	-7.4	-22.4	28	8.9
500	30	5,761	-12.2	-26.3	29	9.9
450	29	6,562	-17.5	-30.1	28	10.8
400	29	7,434	-23.5	-35.7	28	11.0
350	29	8,400	-30.6	-41.2	28	12.4
300	29	9,474	-38.8	-47.2	28	14.2
250	29	10,702	-47.4		28	16.1
200	29	12,149	-55.8		29	17.6
175	29	12,993	-59.0		29	16.0
150	29	13,956	-60.3		29	13.1
125	28	15,089	-60.8		29	9.7
100	28	16,478	-60.2		29	5.7
80	27	17,880	-58.4		31	2.6
70	27	18,723	-57.1		01	1.5
60	26	19,701	-56.0		08	2.4
50	26	20,864	-54.8		08	4.0
40	26	22,298	-52.9		08	5.9
30	22	24,172	-50.2		09	8.0
25	19	25,372	-48.5		09	8.3
20	18	26,842	-46.1		09	10.5
15	13	28,777	-42.1		09	13.0
10						

CHIHUAHUA, MEXICO
857 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	1,428	18.3	6.0	26	.6
1000						
950						
900						
850	30	1,499	20.7	5.5	25	.8
800	30	2,023	19.8	2.8	24	2.0
750	30	2,576	16.3	.5	22	1.8
700	30	3,158	12.0	-2.2	20	1.3
650	30	3,773	7.1	-5.2	21	.5
600	30	4,425	1.7	-8.9	17	.5
550	30	5,119	-4.0	-13.3	20	1.3
500	30	5,865	-8.8	-21.6	24	2.9
450	30	6,674	-13.5	-30.1	26	5.7
400	30	7,559	-19.7	-36.2	27	7.7
350	30	8,539	-27.1	-41.6	27	9.3
300	30	9,628	-35.3	-49.1	26	12.4
250	30	10,874	-44.6		26	15.5
200	30	12,333	-55.0		26	16.3
175	30	13,177	-60.1		26	16.6
150	30	14,127	-64.9		26	14.2
125	30	15,226	-69.6		26	10.2
100	29	16,547	-71.0		26	4.3
80	28	17,874	-68.0		08	1.8
70	28	18,683	-64.8		09	5.6
60	26	19,632	-62.0		09	8.1
50	25	20,770	-58.6		09	9.3
40	25	22,183	-55.9		09	9.9
30	25	24,030	-52.4		09	12.4
25	24	25,214	-49.8		09	13.2
20	24	26,686	-46.5		09	13.7
15	20	28,598	-44.2		09	14.2
10	6	31,339	-39.2			

* COLD BAY, AK
1008 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	30	5.8	4.2	20	2.8
1000	26	110	4.9	3.2	21	3.0
950	30	515	4.0	2.1	22	2.2
900	30	954	2.6	.3	25	1.2
850	30	1,415	.8	-1.8	25	1.4
800	30	1,901	-1.1	-4.4	24	2.2
750	30	2,414	-3.4	-8.6	24	3.3
700	30	2,957	-5.8	-13.3	23	3.8
650	30	3,535	-8.8	-18.3	23	4.3
600	30	4,152	-12.2	-21.6	24	4.8
550	30	4,812	-16.2	-26.4	24	5.1
500	30	5,523	-21.0	-30.6	25	5.8
450	30	6,293	-26.3	-36.6	24	6.7
400	30	7,135	-32.2	-41.8	24	8.9
350	30	8,067	-39.0	-43.4	24	10.6
300	30	9,105	-46.1		24	13.1
250	30	10,304	-50.1		24	15.1
200	30	11,765	-49.2		24	13.2
175	30	12,642	-48.5		24	10.3
150	29	13,658	-48.9		23	8.4
125	28	14,858	-49.5		22	5.9
100	28	16,320	-49.9		22	4.7
80	25	17,785	-50.2		18	3.0
70	25	18,658	-50.2		16	3.6
60	24	19,662	-50.3		14	3.1
50	24	20,851	-50.6		12	3.9
40	21	22,295	-49.9		11	4.7
30	18	24,167	-48.7		09	5.7
25	18	25,370	-47.3		09	7.7
20	17	26,846	-45.3		09	8.1
15	16	28,785	-42.6		08	9.4
10	12	31,584	-37.8			

DAYTON, OH
982 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	299	17.8	15.6	18	.6
1000						
950	30	580	19.0	13.4	25	2.6
900	30	1,043	16.6	10.3	27	5.0
850	30	1,528	13.6	5.8	27	5.5
800	30	2,037	10.9	1.3	27	6.1
750	30	2,573	8.0	-3.6	27	6.5
700	30	3,139	4.7	-8.3	27	7.3
650	30	3,739	1.2	-11.3	27	8.2
600	30	4,379	-2.4	-16.9	27	8.5
550	30	5,065	-6.0	-20.3	27	9.9
500	30	5,805	-10.5	-23.9	27	11.3
450	30	6,608	-15.6	-29.6	27	11.9
400	30	7,487	-21.6	-35.7	27	12.7
350	30	8,459	-29.0	-42.2	27	13.3
300	30	9,541	-37.4	-49.1	28	13.6
250	30	10,776	-46.9		28	15.6
200	29	12,215	-56.0		28	18.4
175	29	13,059	-59.0		28	16.1
150	29	14,022	-60.3		28	11.4
125	29	15,153	-62.1		28	10.3
100	29	16,532	-62.1		29	5.8
80	29	17,915	-61.0		32	2.2
70	29	18,748	-59.3		05	1.6
60	29	19,718	-57.3		07	3.3
50	29	20,877	-55.3		08	5.1
40	28	22,302	-53.5		09	5.9
30	27	24,165	-50.3		08	7.5
25	26	25,356	-48.2		08	8.6
20	25	26,838	-45.4		08	8.7
15	22	28,766	-42.7		09	9.8
10	9	31,506	-39.0			

DEL RIO, TX
975 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	314	23.3	20.4	11	4.0
1000						
950	30	543	22.0	18.9	14	7.4
900	30	1,013	20.7	15.5	16	9.9
850	30	1,507	19.0	10.1	17	8.8
800	30	2,027	17.0	4.6	17	7.3
750	30	2,575	14.5	-2.2	17	4.1
700	30	3,154	10.6	-6.6	16	1.2
650	30	3,766	6.2	-9.5	34	1.1
600	30	4,417	1.4	-13.0	35	2.3
550	30	5,110	-3.8	-16.1	33	3.2
500	30	5,856	-8.9	-21.6	31	3.1
450	30	6,665	-13.7	-27.2	28	3.3
400	30	7,550	-19.8	-32.7	28	4.7
350	30	8,530	-26.8	-38.4	27	7.3
300	30	9,621	-35.0	-46.5	26	11.3
250	30	10,869	-44.3		26	15.3
200	30	12,329	-54.9		26	17.1
175	30	13,173	-60.1		26	16.3
150	30	14,123	-65.2		26	12.5
125	30	15,220	-70.0		26	9.3
100	30	16,539	-71.8		27	3.2
80	30	17,865	-68.1		07	2.3
70	30	18,672	-65.7		09	5.2
60	30	19,616	-62.8		09	7.8
50	30	20,750	-59.0		09	8.6
40	30	22,159	-56.3		09	9.8
30	30	24,001	-52.5		09	12.3
25	30	25,185	-50.5		09	12.6
20	29	26,649	-48.3		09	13.4
15	26	28,562	-44.8		09	15.2
10	18	31,281	-41.4		09	16.8

DENVER, CO
837 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	1,611	11.7	5.7	20	1.6
1000						
950						
900						
850						
800	30	1,993	13.9	.4	24	2.4
750	30	2,535	11.3	-3.7	28	2.8
700	30	3,107	7.1	-5.9	28	3.6
650	30	3,711	2.7	-9.2	28	5.5
600	30	4,353	-2.2	-13.6	27	7.6
550	30	5,038	-7.5	-17.6	26	9.6
500	30	5,773	-12.6	-24.8	26	11.1
450	30	6,568	-18.1	-31.9	25	13.1
400	30	7,437	-24.6	-38.0	25	14.0
350	30	8,397	-32.2	-43.7	25	15.1
300	29	9,463	-40.9	-50.9	25	16.3
250	29	10,679	-50.1		25	17.7
200	29	12,111	-56.8		25	19.4
175	29	12,956	-57.2		25	18.1
150	29	13,928	-58.3		25	16.0
125	29	15,071	-60.7		25	10.7
100	29	16,455	-62.2		24	6.5
80	29	17,840	-60.4		22	1.3
70	29	18,674	-59.2		10	.7
60	28	19,644	-57.6		09	3.3
50	27	20,800	-56.1		09	5.5
40	27	22,226	-53.7		09	7.0
30	25	24,090	-51.0		09	9.2
25	24	25,283	-48.9		09	9.8
20	23	26,759	-46.2		09	10.1
15	18	28,684	-43.2		09	10.1
10						

DODGE CITY, KS
922 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	791	16.9	12.7	18	2.4
1000						
950						
900	30	1,002	19.2	12.1	20	5.1
850	30	1,494	18.0	7.4	22	9.1
800	30	2,011	15.8	2.6	23	8.2
750	30	2,556	12.4	-1.3	24	6.9
700	30	3,130	8.2	-4.0	25	7.1
650	30	3,738	3.8	-7.3	25	7.0
600	30	4,383	-1.0	-10.9	26	7.0
550	30	5,071	-6.0	-16.0	27	8.8
500	30	5,809	-11.3	-22.6	27	9.8
450	30	6,610	-16.6	-30.4	26	10.2
400	30	7,484	-22.9	-35.8	26	11.6
350	30	8,452	-30.1	-42.7	26	12.7
300	30	9,528	-38.4	-48.5	25	14.9
250	30	10,756	-47.9		25	16.3
200	30	12,198	-56.7		25	21.0
175	30	13,040	-58.9		25	22.1
150	30	14,004	-60.5		25	18.7
125	30	15,133	-62.8		26	14.2
100	30	16,503	-63.8		25	6.3
80	30	17,876	-62.3		22	2.5
70	30	18,703	-60.8		10	1.4
60	3.	19,667	-58.8		09	4.1
50	29	20,814	-56.6		09	5.6
40	26	22,236	-54.8		09	7.6
30	25	24,091	-51.3		09	8.7
25	25	25,280	-49.7		09	9.9
20	23	26,753	-47.3		09	11.0
15	18	28,669	-43.9		09	10.8
10	12	31,426	-38.7			

EL PASO, TX
880 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	29	1,193	19.2	.9	20	.8
1000						
950						
900						
850	29	1,492	22.4	1.4	22	1.5
800	29	2,016	19.6	-1.3	26	2.8
750	29	2,567	15.7	-4.9	27	4.4
700	29	3,147	11.1	-9.0	27	4.9
650	29	3,760	6.2	-11.0	25	4.5
600	29	4,410	.8	-13.4	24	5.2
550	29	5,101	-4.9	-16.8	24	7.0
500	29	5,843	-10.0	-25.7	26	7.9
450	29	6,648	-15.1	-32.2	27	8.2
400	29	7,527	-21.7	-38.7	27	9.9
350	29	8,499	-29.2	-44.8	26	11.8
300	29	9,579	-37.5	-52.0	25	14.4
250	29	0,814	-46.3		26	18.1
200	29	12,266	-55.5		26	21.5
175	29	13,109	-59.5		26	20.9
150	29	14,065	-63.2		26	19.0
125	29	15,175	-67.1		26	15.4
100	29	16,513	-69.4		26	7.5
80	28	17,855	-65.9		23	.2
70	28	18,670	-63.8		09	3.8
60	28	19,621	-61.5		09	5.5
50	27	20,759	-58.2		09	7.1
40	27	22,173	-55.7		09	8.9
30	26	24,018	-52.8		09	10.8
25	26	25,200	-50.7		09	11.6
20	26	26,664	-47.7		09	12.6
15	25	28,579	-44.9		09	12.4
10	10	31,307	-40.5			

ELY, NV
808 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	1,908	6.7	-1.2	20	2.8
1000						
950						
900						
850						
800	28	2,003	10.6	-.1	19	3.0
750	30	2,534	9.7	-3.2	22	1.7
700	30	3,103	5.6	-6.6	26	3.8
650	30	3,704	1.3	-10.2	27	6.1
600	30	4,343	-3.2	-14.4	26	7.8
550	30	5,025	-8.4	-19.6	26	9.3
500	30	5,758	-13.5	-24.4	27	10.7
450	30	6,552	-18.8	-30.7	27	11.5
400	30	7,418	-25.6	-36.8	27	12.1
350	30	8,375	-32.7	-43.4	27	12.9
300	30	9,439	-41.0	-50.1	27	14.7
250	30	10,656	-49.4		28	16.5
200	30	12,093	-56.3		27	14.8
175	30	12,939	-57.2		27	15.1
150	30	13,914	-57.9		27	13.1
125	30	15,060	-59.3		27	10.6
100	30	16,450	-61.3		26	5.8
80	30	17,838	-60.4		28	1.2
70	30	18,673	-59.2		10	1.7
60	29	19,644	-57.7		10	3.5
50	28	20,801	-56.0		09	5.2
40	27	22,228	-54.2		09	6.9
30	27	24,086	-50.9		09	8.0
25	27	25,279	-48.7		09	9.0
20	27	26,754	-46.2		09	10.3
15	26	28,681	-43.3		09	10.9
10	14	31,433	-38.3			

EMPALME, MEXICO
1009 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	12	21.6	17.8	07	1.1
1000	30	91	24.0	19.0	10	1.2
950	30	542	25.0	9.6	15	1.3
900	30	1,016	23.8	3.7	19	.9
850	30	1,512	21.6	.4	19	1.3
800	30	2,035	18.6	-1.6	19	2.7
750	30	2,585	15.3	-4.7	20	3.7
700	30	3,164	11.1	-7.5	20	4.4
650	30	3,778	6.8	-10.2	21	5.0
600	30	4,430	2.3	-13.7	21	4.8
550	30	5,127	-2.4	-18.8	21	4.5
500	30	5,876	-7.5	-25.9	23	3.8
450	30	6,689	-12.8	-30.8	25	5.1
400	30	7,576	-19.5	-36.3	27	7.1
350	29	8,555	-27.0	-43.1	27	9.7
300	29	9,645	-35.5	-50.2	27	12.9
250	28	10,889	-44.6		26	16.2
200	28	12,349	-54.7		26	17.5
175	28	13,194	-59.4		26	17.3
150	28	14,149	-64.0		26	14.2
125	28	15,254	-68.6		25	10.3
100	28	16,579	-71.3		26	4.8
80	28	17,906	-67.9		12	.9
70	28	18,715	-64.7		09	4.4
60	28	19,664	-61.1		10	7.0
50	26	20,809	-58.1		09	7.2
40	26	22,223	-55.7		09	9.4
30	24	24,072	-52.2		09	12.2
25	24	25,259	-49.4		09	13.4
20	21	26,729	-46.4		09	13.2
15	13	28,648	-43.6		10	11.1
10						

* FAIRBANKS, AK
994 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	29	135	14.2	7.1	30	.7
1000						
950	29	513	11.9	2.4	26	1.7
900	29	964	9.0	.1	25	2.3
850	29	1,434	5.4	-1.5	23	2.0
800	29	1,926	1.5	-3.1	21	2.0
750	29	2,443	-2.3	-5.8	20	2.4
700	29	2,987	-5.7	-10.5	20	2.1
650	29	3,565	-9.0	-14.6	18	2.3
600	29	4,181	-12.9	-19.3	18	2.7
550	29	4,839	-17.0	-24.5	18	3.0
500	29	5,548	-21.9	-28.6	18	3.7
450	29	6,315	-27.4	-32.6	18	3.9
400	29	7,152	-33.7	-39.3	17	4.3
350	29	8,077	-40.8	-41.6	17	5.3
300	29	9,106	-48.5		18	5.9
250	29	10,290	-53.0		19	5.6
200	29	11,749	-47.1		21	4.9
175	29	12,635	-46.4		21	4.9
150	29	13,660	-46.3		22	3.9
125	29	14,870	-46.7		21	3.1
100	29	16,349	-47.2		18	2.3
80	29	17,824	-47.6		16	1.9
70	29	18,707	-47.6		15	2.0
60	29	19,726	-47.2		12	2.2
50	29	20,934	-46.9		11	3.3
40	29	22,415	-46.2		10	4.5
30	28	24,332	-44.7		09	5.9
25	27	25,559	-43.6		09	7.1
20	26	27,065	-42.1		09	8.3
15	23	29,031	-38.7		09	9.8
10	6	31,898	-34.8			

FLINT, MI
987 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	236	15.9	13.3	23	1.3
1000						
950	30	562	16.4	10.5	24	3.3
900	30	1,022	14.5	7.7	26	4.6
850	30	1,503	11.5	5.2	27	5.4
800	30	2,008	8.9	.2	27	6.0
750	30	2,540	6.0	-4.2	27	7.0
700	30	3,102	3.0	-9.5	27	8.0
650	30	3,699	-.2	-13.0	27	8.2
600	30	4,336	-3.8	-17.2	28	8.8
550	30	5,017	-8.1	-21.4	27	9.3
500	30	5,752	-12.5	-27.9	27	9.6
450	30	6,548	-17.7	-31.9	27	10.5
400	30	7,419	-24.0	-36.6	27	12.0
350	30	8,382	-31.2	-42.2	27	13.9
300	30	9,454	-39.1	-49.0	27	16.0
250	29	10,680	-47.2		28	19.6
200	29	12,130	-54.8		28	19.7
175	29	12,980	-57.2		28	17.3
150	29	13,950	-59.1		28	12.9
125	29	15,092	-59.7		28	9.8
100	29	16,484	-59.7		28	5.5
80	29	17,881	-58.9		33	1.3
70	29	18,722	-57.3		05	1.7
60	29	19,700	-56.0		08	3.3
50	28	20,864	-54.3		08	5.7
40	28	22,301	-52.2		08	6.5
30	25	24,179	-49.8		08	8.2
25	24	25,378	-47.8		09	8.7
20	22	26,860	-45.1		09	10.2
15	17	28,797	-42.5		09	12.3
10						

RAWINSONDE DATA

Average monthly values

GLASGOW, MT — 930 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.P.S.
SFC	30	696	11.1	8.0	02	1.1
1000						
950						
900	30	975	14.1	5.5	33	2.3
850	30	1,456	11.7	2.1	30	2.4
800	30	1,960	8.2	-.2	28	3.2
750	30	[illegible]	4.5	-2.7	28	3.9
700	30	[illegible]	.4	-5.4	28	5.0
650	30	3,638	-3.5	-9.9	27	6.0
600	30	4,267	-7.6	-13.6	27	6.6
550	30	4,939	-11.9	-18.8	26	7.9
500	30	5,662	-16.7	-25.7	26	9.0
450	30	6,446	-21.9	-31.7	26	10.8
400	30	[illegible]	-28.2	-37.3	26	13.1
350	30	[illegible]	-35.3	-43.1	26	13.8
300	30	[illegible]	-43.4		26	15.9
250	30	10,509	-50.5		26	17.9
200	30	11,954	-52.5		26	13.8
175	30	12,819	-51.2		26	13.9
150	30	[illegible]	-51.3		26	11.1
125	30	15,005	-52.2		27	7.6
100	30	16,443	-53.6		27	3.6
80	29	17,880	-54.0		24	1.1
70	28	18,735	-53.4		10	.7
60	28	19,729	-52.8		08	1.9
50	29	[illegible]	[illegible]		09	3.7
40	27	22,359	-50.8		09	5.3
30	27	24,242	-48.6		09	7.1
25	25	25,451	-46.9		09	8.0
20	24	26,939	-44.4		09	8.9
15	23	28,880	-40.8		09	9.9
10	8	31,677	-35.2			

GRAND JUNCTION, CO — 851 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.P.S.
SFC	30	1,472	13.0	.1	11	1.6
1000						
950						
900						
850	20	1,501	14.0	.6	11	2.8
800	30	1,992	15.1	-2.4	15	4.2
750	30	2,535	11.7	-5.0	21	2.4
700	30	3,107	[illegible]	-7.4	24	4.7
650	30	3,712	2.4	-9.9	25	6.4
600	30	4,353	-2.5	-14.1	25	8.5
550	30	5,036	-7.6	-19.3	25	10.5
500	30	5,770	-13.1	-24.6	25	12.0
450	30	6,564	-18.8	-30.8	25	13.0
400	30	7,431	-25.3	-37.0	25	14.9
350	30	8,389	-32.6	-43.3	25	15.8
300	30	9,453	-40.9	-49.2	26	17.3
250	30	10,669	-49.5		26	18.5
200	30	12,107	-55.9		26	18.0
175	30	12,954	-57.2		26	17.0
150	30	13,927	-57.9		26	16.2
125	30	15,072	-59.8		26	13.5
100	30	16,460	-61.4		26	7.4
80	30	17,848	-60.0		13	1.2
70	29	18,684	-59.2		10	1.2
60	28	19,652	-58.3		09	3.1
50	28	20,806	-56.3		09	5.1
40	28	22,231	-54.0		08	7.3
30	27	24,091	-51.2		09	8.8
25	26	25,284	-49.1		09	10.6
20	23	26,765	-46.1		09	11.3
15	18	28,676	-43.3		09	11.2
10						

• GREAT FALLS, MT — 886 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.P.S.
SFC	30	1,118	9.8	4.8	23	3.3
1000						
950						
900						
850	30	1,463	10.7	.3	26	4.6
800	30	1,965	7.4	-1.3	28	4.6
750	30	2,493	3.6	-3.8	28	5.0
700	30	3,050	-.3	-6.4	27	6.3
650	30	3,639	-3.9	-10.8	27	7.1
600	30	4,267	-7.9	-15.1	27	7.3
550	30	4,937	-12.5	-20.0	27	8.2
500	30	5,658	-17.4	-24.6	27	9.7
450	29	6,436	-22.7	-32.2	26	11.1
400	29	7,290	-28.7	-37.6	26	11.9
350	29	8,235	-35.5	-42.8	26	14.1
300	29	9,288	-43.0		27	14.5
250	29	10,496	-50.8		27	15.6
200	29	11,936	-53.2		27	13.4
175	28	12,796	-51.7		27	12.8
150	28	13,796	-51.7		27	10.3
125	28	14,976	-52.9		26	6.5
100	28	16,411	-54.2		27	3.7
80	28	17,840	-54.8		31	.7
70	28	18,695	-54.5		09	.9
60	28	19,684	-53.9		09	2.4
50	28	20,857	-53.2		08	3.6
40	27	22,301	-51.8		09	5.8
30	27	24,176	-49.5		09	7.7
25	26	25,373	-48.1		08	8.7
20	24	26,860	-46.0		09	10.2
15	17	28,808	-42.8		08	11.5
10	6	31,625	-37.4			

GREEN BAY, WI — 988 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.P.S.
SFC	30	210	14.7	12.3	27	.7
1000						
950	30	544	15.9	10.8	24	2.5
900	30	1,003	14.0	8.4	26	3.7
850	30	1,484	11.2	4.3	26	4.4
800	30	1,988	8.6	.0	26	5.4
750	30	2,520	6.1	-5.3	27	6.4
700	30	3,082	2.6	-9.7	26	7.5
650	30	3,678	-.6	-13.7	26	8.3
600	30	4,313	-4.6	-17.6	26	8.8
550	30	4,992	-8.9	-22.4	26	9.2
500	30	5,725	-13.3	-25.6	26	10.2
450	29	6,514	-18.7	-31.1	26	11.9
400	29	7,382	-24.7	-35.3	27	13.1
350	29	8,343	-31.5	-41.3	27	14.4
300	29	9,413	-39.7	-47.8	27	16.3
250	29	10,638	-47.7		27	20.3
200	29	12,091	-54.0		27	20.8
175	29	12,943	-56.0		27	17.2
150	29	13,922	-57.0		27	14.1
125	29	15,074	-58.0		27	10.7
100	29	16,479	-58.3		27	7.1
80	29	17,885	-58.0		29	2.7
70	29	18,729	-56.7		35	.8
60	29	19,710	-55.1		06	2.0
50	29	20,879	-53.6		08	3.6
40	29	22,318	-52.4		08	5.3
30	28	24,187	-49.7		09	7.7
25	27	25,382	-48.3		09	8.2
20	24	26,860	-45.7		09	9.5
15	22	28,783	-42.7		09	10.7
10	15	31,555	-37.6		09	10.6

GREENSBORO, NC — 986 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.P.S.
SFC	30	275	[illegible]	15.5	35	.1
1000						
950	30	594	20.3	12.8	32	1.3
900	30	1,059	17.6	9.5	31	2.3
850	30	1,545	14.4	6.9	[illegible]	2.6
800	30	2,056	11.6	2.9	30	2.9
750	30	2,593	[illegible]	-2.6	29	4.2
700	30	3,161	6.0	-9.3	29	5.2
650	30	3,765	2.9	-12.9	[illegible]	5.9
600	30	4,408	-.8	-16.5	28	6.8
550	30	5,098	-4.9	-19.6	28	7.0
500	30	5,841	-9.4	-25.0	28	8.1
450	30	6,648	[illegible]	[illegible]	28	8.8
400	30	7,530	[illegible]	-35.2	28	9.1
350	30	8,508	-27.7	-41.2	28	9.7
300	30	9,594	-36.2	-49.0	28	10.4
250	30	10,832	[illegible]		28	12.4
200	30	12,283	-56.1		29	13.3
175	30	13,123	-60.6		29	13.6
150	30	14,075	-63.6		29	11.8
125	30	15,187	-65.4		28	10.6
100	30	16,547	-65.2		30	5.1
80	30	17,910	-63.3		01	2.5
70	30	18,735	-61.2		06	3.2
60	30	19,697	-59.3		08	5.8
50	30	20,846	-56.5		09	7.9
40	30	22,272	-53.8		[illegible]	8.1
30	30	24,136	-50.4		09	9.4
25	26	25,327	-48.8		09	9.8
20	25	26,803	-45.7		09	11.0
15	22	28,735	-43.7		10	12.4
10	12	31,466	-39.4		09	11.2

GUADALUPE IS., MEXICO — 1012 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.P.S.
SFC	27	[illegible]	14.6	11.6	32	5.4
1000	27	[illegible]	14.0	11.4	32	6.2
950	27	557	13.1	5.7	32	5.0
900	27	[illegible]	17.8	[illegible]	32	3.1
850	27	[illegible]	18.0	-5.9	31	2.5
800	27	[illegible]	15.8	-7.8	29	2.1
750	27	2,565	13.5	-9.7	27	2.9
700	27	3,142	10.4	-12.2	25	3.9
650	27	3,754	6.7	-15.3	26	3.3
600	27	4,406	2.4	-18.9	26	3.7
550	27	5,103	-2.1	-22.5	26	4.6
500	27	5,852	-7.5	-26.7	26	5.7
450	27	6,663	-13.6	-31.2	26	7.4
400	27	7,546	-20.6	-37.0	26	8.5
350	26	8,519	-28.4	-43.7	27	10.8
300	26	9,602	-37.1	-51.5	26	14.1
250	26	10,839	-46.1		26	18.5
200	26	12,292	-55.4		26	20.6
175	26	13,136	-59.3		25	20.0
150	26	14,093	-63.0		25	16.9
125	25	15,203	-66.5		25	11.4
100	24	16,543	-70.2		26	3.9
80	22	17,874	-67.6		07	2.0
70	22	18,683	-64.8		06	4.7
60	22	19,630	-62.1		09	6.7
50	21	20,763	-59.3		08	7.9
40	20	22,171	-56.6		08	9.7
30	20	24,012	-52.8		08	12.3
25	20	25,195	-50.8		08	13.1
20	13	26,648	-48.0			
15						
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• GUAM, MARIANA IS. — 999 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.P.S.
SFC	30	111	25.7	23.0	10	3.4
1000	9	115	25.3	22.8		
950	30	556	23.1	20.5	10	8.2
900	30	1,027	20.4	16.0	10	8.9
850	30	1,519	17.7	11.5	10	7.8
800	30	2,036	15.1	7.1	09	7.0
750	30	2,581	12.7	.3	09	6.8
700	30	3,157	9.8	-5.0	09	6.9
650	30	3,770	6.5	-8.3	09	6.7
600	30	4,422	2.8	-12.3	09	6.3
550	30	5,121	-1.2	-18.4	08	6.4
500	30	5,874	-5.6	-23.8	08	6.3
450	30	6,693	-10.4	-26.9	07	5.2
400	30	7,590	-16.3	-31.5	07	4.2
350	30	8,584	-23.3	-37.8	06	2.8
300	30	9,690	-32.1	-44.1	34	1.6
250	30	10,950	-42.2		27	4.3
200	30	12,420	-54.5		26	7.6
175	30	13,262	-61.4		26	8.0
150	30	14,201	-68.8		25	6.8
125	27	15,276	-75.3		25	5.1
100	25	16,557	-77.7		09	4.5
80	22	17,847	-73.3		09	10.0
70	22	18,635	-70.3		09	12.6
60	21	19,559	-66.8		09	15.3
50	20	20,674	-62.7		09	17.6
40	20	22,058	-60.1		09	17.8
30	20	23,879	-54.1		09	15.5
25	20	25,056	-51.5		09	12.5
20	20	26,517	-48.7		09	12.3
15	15	28,427	-45.5		08	13.3
10	12	31,155	-42.2		09	18.0
7						
5						

HILO, HI — 1017 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.P.S.
SFC	30	10	20.8	17.6	26	1.5
1000	30	159	20.9	16.2	28	.9
950	30	602	17.5	14.7	08	2.1
900	30	1,062	14.2	11.9	08	3.4
850	30	1,543	11.1	9.0	08	4.1
800	30	2,048	8.7	2.0	08	5.0
750	30	2,584	11.0	-10.0	09	5.4
700	30	3,157	9.2	-12.5	09	4.5
650	29	3,769	6.2	-14.8	09	3.4
600	29	4,420	2.7	-18.6	09	2.6
550	29	5,118	-1.8	-22.2	10	1.6
500	29	5,868	-7.6	-26.8	11	1.8
450	29	6,678	-13.9	-30.5	13	1.4
400	29	7,561	-20.6	-36.3	22	1.4
350	29	8,537	-28.1	-42.9	26	2.0
300	29	9,621	-36.6	-50.4	28	4.4
250	29	10,859	-46.2		29	9.2
200	29	12,306	-57.5		29	11.5
175	29	13,138	-63.0		28	12.9
150	29	14,076	-67.0		28	11.5
125	29	15,173	-68.2		26	5.6
100	29	16,504	-70.8		19	1.7
80	29	17,823	-71.0		10	4.9
70	29	18,619	-68.4		09	8.6
60	29	19,551	-65.1		09	11.2
50	29	20,672	-61.8		09	12.8
40	28	22,061	-59.5		09	16.6
30	28	23,879	-55.3		09	18.3
25	28	25,051	-52.3		09	17.7
20	28	26,504	-49.5		09	16.9
15	27	28,403	-46.5		09	17.4
10	22	31,117	-43.1		09	19.5
7						
5						

HUNTINGTON, WV — 988 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.P.S.
SFC	30	246	17.4	15.8	22	.8
1000						
950	30	582	19.5	14.7	25	3.0
900	30	1,046	17.1	11.5	27	4.6
850	30	1,532	14.0	7.6	27	5.4
800	30	2,041	10.9	2.5	27	5.7
750	30	2,577	8.0	-4.3	27	6.1
700	30	3,143	4.7	-10.3	28	7.1
650	30	3,744	1.8	-13.2	28	8.0
600	30	4,385	-1.4	-17.8	28	9.1
550	30	5,074	-5.5	-19.4	28	10.4
500	30	5,815	-9.9	-24.2	27	11.1
450	30	6,620	-15.0	-30.3	27	11.6
400	30	7,501	-21.2	-35.1	27	12.0
350	29	8,476	-28.1	-41.4	27	11.9
300	29	9,561	-36.6	-48.4	27	12.7
250	29	10,799	-46.0		29	15.3
200	29	12,252	-55.6		29	15.8
175	29	13,095	-59.1		29	15.2
150	29	14,056	-61.9		29	11.9
125	29	15,179	-63.6		29	10.7
100	29	16,549	-63.0		31	5.4
80	29	17,928	-61.5		36	3.0
70	29	18,759	-60.0		03	2.7
60	29	19,727	-57.5		07	4.2
50	28	20,885	-55.3		08	5.7
40	28	22,316	-53.1		08	7.1
30	28	24,183	-50.0		09	8.8
25	26	25,382	-47.9		09	9.4
20	24	26,870	-45.4		09	10.3
15	22	28,802	-42.1		09	11.1
10	14	31,596	-38.9		08	13.7
7						
5						

• INTERNATIONAL FALLS, MN — 969 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.P.S.
SFC	30	359	11.7	10.0	18	.6
1000						
950	30	527	13.7	9.9	21	1.4
900	30	983	12.7	7.0	25	2.6
850	30	1,461	10.4	3.1	25	4.2
800	30	1,964	7.2	-.1	26	5.2
750	30	2,492	3.9	-4.2	26	5.6
700	30	3,049	1.0	-9.9	26	6.2
650	30	3,642	-2.3	-14.2	26	7.2
600	30	4,273	-6.0	-18.6	26	8.6
550	30	4,950	-10.0	-21.8	26	10.0
500	30	5,678	-14.8	-26.8	26	11.2
450	30	6,468	-20.1	-31.4	26	11.9
400	30	7,330	-26.3	-37.4	26	12.4
350	30	8,284	-33.5	-43.7	26	14.0
300	30	9,345	-41.7	-44.5	26	16.0
250	30	10,560	[illegible]		26	18.4
200	30	12,007	-53.4		26	20.5
175	30	12,865	-53.8		26	16.6
150	29	13,861	-54.3		26	13.2
125	29	15,028	-55.2		26	9.4
100	29	16,450	-55.5		26	5.5
80	29	17,874	-55.3		25	1.9
70	29	18,727	-54.6		25	.7
60	29	19,716	-53.9		08	1.6
50	29	20,890	-52.9		08	3.4
40	29	22,334	-51.4		08	5.4
30	28	24,208	-49.4		08	7.5
25	27	25,402	-47.6		09	8.3
20	26	26,887	[illegible]		09	9.7
15	22	28,815	-42.8		09	10.3
10	18	31,574	-37.8		09	12.7
7	8	34,117	-33.7			
5	6	36,485	-30.4			

• ISLE DEL CISNE — 1012 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.P.S.
SFC	30	[illegible]	26.9	23.2	10	5.4
1000	30	[illegible]	26.5	23.4	10	6.4
950	30	571	22.6	21.1	10	8.8
900	30	1,041	19.6	16.1	11	9.9
850	30	1,532	17.0	10.2	11	10.2
800	30	2,048	14.8	3.4	11	9.1
750	30	2,592	12.3	-4.2	10	8.0
700	30	3,166	8.9	-6.9	10	7.1
650	30	3,776	5.8	-11.6	10	6.6
600	30	4,427	2.0	-16.3	11	5.7
550	30	5,123	-2.4	-17.9	11	4.7
500	30	5,873	-7.1	-20.8	10	3.2
450	30	6,687	-11.7	-27.0	09	2.8
400	30	7,580	-17.6	-31.9	05	2.7
350	30	8,568	-24.5	-37.7	02	2.9
300	30	9,670	-33.0	-45.6	36	4.5
250	30	10,926	-42.9		34	4.9
200	30	12,392	-54.8		34	5.5
175	30	13,234	-61.2		34	6.0
150	30	14,175	-67.6		35	5.9
125	30	15,258	-73.0		36	4.9
100	30	16,559	-74.1		05	5.4
80	30	17,868	-70.9		08	8.2
70	30	18,667	-67.1		09	9.9
60	29	19,610	-63.4		08	12.4
50	29	20,739	-60.3		09	[illegible]
40	29	22,139	-57.4		09	18.4
30	27	23,980	-52.5		09	[illegible]
25	24	[illegible]	-49.5		10	16.5
20	24	26,634	-46.2		09	14.2
15	11	28,560	-42.4		09	[illegible]
10	9	31,302	-39.7			
7						

JACKSON, MS — 1004 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.P.S.
SFC	30	100	20.8	19.9	17	1.5
1000	29	139	21.3	19.6	17	1.9
950	30	585	21.8	16.9	20	4.7
900	30	1,053	19.4	13.1	20	4.6
850	30	1,543	16.1	9.4	21	3.6
800	30	2,057	13.6	3.3	22	2.5
750	30	2,598	10.5	-.6	25	2.3
700	30	3,169	7.2	-5.4	27	2.5
650	30	3,775	3.2	-7.8	28	2.6
600	30	4,419	-.6	-11.5	28	3.6
550	30	5,109	-5.0	-17.4	28	3.8
500	30	5,852	-9.6	-22.8	28	4.1
450	30	6,658	-14.8	-29.9	28	5.3
400	30	7,539	-21.0	-36.2	28	6.3
350	30	8,515	-27.9	-41.6	28	7.0
300	30	9,601	-36.1	-47.8	28	7.9
250	30	10,842	-45.2		28	11.6
200	30	12,299	-55.5		28	14.7
175	30	13,140	-60.3		29	14.2
150	30	14,093	-63.8		28	10.8
125	30	15,202	-67.1		29	8.6
100	30	16,543	-68.0		30	4.1
80	30	17,889	-65.7		06	2.7
70	29	18,706	-63.5		07	5.1
60	29	19,660	-60.5		08	7.8
50	29	20,805	-57.6		09	8.1
40	29	22,222	-55.0		08	9.8
30	27	24,073	-51.4		09	12.2
25	26	25,267	-48.5		09	11.5
20	24	26,742	-45.8		[illegible]	11.8
15	15	28,666	-43.3		08	12.7
10	5	31,384	-42.0			
7						

JOHN F. KENNEDY INT. AP NY — 1016 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.P.S.
SFC	30	5	18.6	14.5	32	.7
1000	29	150	17.8	13.4	33	.9
950	30	584	16.6	10.4	31	1.9
900	30	1,043	14.5	7.8	29	2.6
850	30	1,524	11.5	4.6	28	3.4
800	30	2,029	8.8	.7	28	4.2
750	30	2,561	6.3	-3.8	28	5.4
700	30	3,124	3.1	-7.3	29	6.9
650	30	3,722	.3	-11.8	29	8.3
600	30	4,360	-3.1	-15.0	29	8.3
550	30	5,044	-7.0	-19.7	29	8.9
500	30	5,781	-11.6	-25.6	29	9.5
450	30	6,581	-16.9	-30.2	28	11.3
400	30	7,454	-23.3	-35.9	28	12.2
350	30	8,421	-30.3	-42.6	28	13.7
300	30	9,495	-38.6	-48.9	29	14.7
250	30	10,724	-47.5		29	16.0
200	30	12,173	-55.4		29	18.4
175	30	13,017	-58.8		30	16.5
150	30	13,980	-60.3		30	12.9
125	30	15,114	-61.4		29	10.0
100	28	16,501	-60.5		31	5.1
80	27	17,899	[illegible]		35	2.9
70	26	18,744	-57.5		03	3.0
60	[illegible]	19,721	-56.2		07	4.5
50	25	20,884	-54.9		09	5.5
40	24	22,317	-52.6		09	8.0
30	22	24,193	-49.4		09	10.0
25	[illegible]	25,394	-47.1		09	10.0
20	21	26,881	-44.3		09	11.9
15	17	28,830	-41.1		09	12.1
10						
7						

JOHNSTON IS., PACIFIC AREA — 1015 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.P.S.
SFC	30	3	25.2	20.9	09	6.9
1000	30	132	23.7	19.3	09	7.8
950	30	579	19.8	17.3	09	9.5
900	30	1,044	16.8	13.3	09	10.5
850	30	1,529	14.0	9.6	08	9.5
800	30	2,040	13.0	1.1	08	7.7
750	30	2,582	12.3	-7.1	09	5.7
700	30	3,157	9.8	-11.0	08	4.9
650	30	3,769	6.3	-13.7	09	4.5
600	30	4,419	2.1	-16.7	09	4.6
550	30	5,116	-2.1	-20.5	10	4.2
500	30	5,866	-7.3	-23.7	11	3.0
450	30	6,679	-12.9	-28.6	12	2.1
400	30	7,566	-19.0	-33.2	19	2.1
350	30	8,549	-26.2	-37.9	25	4.7
300	30	9,642	-34.6	-45.1	26	9.5
250	30	10,891	-44.4		25	14.5
200	30	12,347	-56.2		25	20.0
175	30	13,182	-62.7		26	21.5
150	30	14,118	-68.5		27	19.2
125	30	15,201	-71.7		27	11.7
100	30	16,515	-72.2		28	2.4
80	29	17,832	-70.5		09	6.6
70	29	18,628	-68.4		09	9.7
60	28	19,559	-65.5		09	12.3
50	28	[illegible]	-62.0		09	15.3
40	28	22,067	-59.5		09	17.4
30	26	23,889	-55.2		09	17.7
25	26	25,061	-52.2		09	16.1
20	25	26,517	-48.7		08	16.4
15	24	28,421	-45.6		09	16.1
10	16	31,158	-42.3		09	17.2
7	6	33,578	-40.0			

KEY WEST, FL — 1010 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.P.S.
SFC	30	3	27.0	22.9	13	1.4
1000	30	141	[illegible]	21.8	13	1.7
950	30	593	[illegible]	19.1	13	2.3
900	30	1,063	20.0	13.5	13	2.7
850	30	1,554	[illegible]	8.9	13	2.4
800	30	2,069	13.9	4.1	13	2.0
750	30	2,611	[illegible]	.7	14	1.4
700	30	3,182	7.2	-2.9	16	.7
650	30	3,789	3.9	-5.9	19	.2
600	30	4,436	.4	-10.1	[illegible]	1.0
550	30	5,129	[illegible]	-14.5	31	1.6
500	30	5,876	-8.1	-20.7	31	1.6
450	30	6,687	-13.3	-23.8	[illegible]	2.1
400	30	7,574	-19.0	[illegible]	31	2.4
350	29	8,559	-25.7	-37.6	31	2.8
300	29	9,655	-34.1	-45.8	31	3.0
250	29	10,905	-44.1		32	2.7
200	29	12,365	-55.6		33	5.5
175	27	13,204	-61.6		34	6.3
150	26	14,148	[illegible]		34	6.2
125	26	15,235	[illegible]		35	4.3
100	26	16,547	-71.4		04	3.8
80	26	17,872	-69.0		[illegible]	6.0
70	26	18,677	-66.0		[illegible]	7.8
60	26	[illegible]	-62.5		[illegible]	9.6
50	26	20,752	-59.7		09	12.7
40	26	22,159	-56.5		09	14.9
30	23	24,001	-52.4		09	15.8
25	23	25,188	-49.4		09	15.9
20	23	26,659	[illegible]		09	16.4
15	18	28,583	-43.7		09	17.4
10	5	31,315	-38.9			
7						

Clemson University Libraries

RAWINSONDE DATA

Average monthly values

JUNE 1975

KING SALMON, AK
1010 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	24	15	4.9	2.7	18	1.7
1000	21	106	5.7	2.7	17	2.1
950	24	510	4.4	1.4	16	2.8
900	24	949	2.5	.0	11	2.2
850	24	1,410	.3	-1.9	10	2.9
800	24	1,895	-1.8	-5.7	11	2.0
750	24	2,407	-4.3	-9.5	11	1.6
700	24	2,948	-7.3	-12.8	08	1.9
650	24	3,522	-10.3	-16.4	07	1.8
600	24	4,135	-13.6	-21.3	06	1.5
550	24	4,792	-17.7	-26.5	08	1.5
500	24	5,499	-22.2	-31.4	09	1.0
450	24	6,265	-27.5	-36.9	15	.5
400	24	7,102	-33.9	-41.4	17	1.1
350	24	8,027	-40.6	-45.8	23	2.5
300	24	9,059	-47.0		25	6.4
250	24	10,258	-49.6		25	4.5
200	23	11,731	-46.7		23	5.6
175	23	12,618	-46.2		23	4.7
150	22	13,647	-46.4		22	4.1
125	22	14,856	-47.4		22	4.0
100	22	16,329	-48.2		20	2.8
80	21	17,806	-48.7		16	2.3
70	20	18,690	-48.8		16	2.9
60	20	19,702	-49.2		13	2.6
50	20	20,898	-49.1		11	3.2
40	18	22,363	-48.3		11	4.7
30	17	24,267	-47.1		10	6.9
25	17	25,478	-45.8		09	7.0
20	14	26,963	-44.0		10	8.8
15	10	28,905	-41.2		09	9.9
10						

+ KOROR, CAROLINE IS.
1007 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	30	27.0	24.2	12	1.4
1000	30	88	26.2	23.7	12	1.8
950	30	540	23.4	21.0	11	3.2
900	30	1,012	20.6	17.7	11	3.6
850	30	1,505	17.9	14.5	11	4.2
800	30	2,023	15.3	11.9	11	4.5
750	30	2,569	12.4	8.7	11	4.7
700	30	3,146	9.1	5.4	10	5.2
650	30	3,758	5.7	2.4	10	6.2
600	30	4,410	2.2	-.8	10	6.5
550	30	5,109	-1.4	-4.8	10	5.8
500	30	5,864	-5.4	-9.7	10	5.7
450	30	6,684	-10.0	-15.1	10	5.4
400	30	7,584	-15.3	-22.2	09	4.4
350	30	8,583	-21.9	-30.7	11	4.0
300	30	9,696	-30.3	-39.6	11	3.9
250	30	10,966	-40.8	-49.0	11	3.7
200	30	12,443	-53.6		09	4.1
175	29	13,288	-60.7		08	4.3
150	29	14,229	-68.4		07	3.6
125	29	15,305	-75.2		07	2.9
100	29	16,584	-78.7		07	7.1
80	29	17,866	-73.7		08	11.1
70	29	18,655	-69.8		09	13.4
60	29	19,581	-66.4		09	16.2
50	29	20,697	-62.6		09	16.6
40	28	22,092	-57.6		09	9.9
30	28	23,934	-51.9		08	4.3
25	27	25,122	-50.6		11	2.2
20	26	26,586	-48.0		14	1.9
15	22	28,490	-45.5		10	3.8
10	12	31,229	-41.5			

KOTZEBUE, AK
1010 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	15	5	2.4	1.5	28	3.3
1000	12	111	3.2	1.3	29	4.8
950	15	507	5.9	-1.2	25	2.5
900	15	949	3.8	-1.9	22	3.0
850	15	1,411	.9	-4.2	21	3.7
800	15	1,896	-1.7	-6.1	20	4.2
750	15	2,408	-4.3	-11.0	21	4.6
700	15	2,949	-7.6	-13.0	21	5.2
650	15	3,522	-11.1	-18.0	20	5.1
600	15	4,133	-14.5	-22.0	21	5.6
550	15	4,787	-18.6	-27.8	21	5.7
500	15	5,491	-23.5	-32.6	21	6.3
450	15	6,253	-29.1	-38.7	21	6.9
400	15	7,084	-35.8	-45.7	21	7.6
350	15	8,002	-42.5		21	7.5
300	15	9,025	-48.7		21	6.2
250	15	10,222	-48.1		21	6.1
200	15	11,707	-44.3		22	6.3
175	15	12,605	-43.4		21	6.3
150	15	13,640	-44.2		21	5.9
125	15	14,862	-44.7		21	5.0
100	15	16,354	-45.2		20	3.3
80	15	17,842	-45.7		18	2.1
70	15	18,731	-45.9		16	2.4
60	15	19,757	-46.1		15	2.3
50	15	20,971	-45.8		11	2.7
40	15	22,457	-45.5		11	3.4
30	13	24,385	-44.1		09	5.5
25	12	25,606	-43.3		08	7.1
20	10	27,089	-42.5		09	9.1
15	8	29,042	-39.8			
10						

LAKE CHARLES, LA
1014 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	5	23.1	22.3	12	1.0
1000	30	128	24.7	22.6	16	1.8
950	30	578	22.1	19.3	19	4.5
900	30	1,048	19.9	14.0	19	4.8
850	30	1,539	17.6	7.7	20	4.4
800	30	2,055	14.5	4.9	21	4.0
750	30	2,599	11.6	.0	22	3.3
700	30	3,172	8.0	-4.0	24	2.6
650	30	3,780	4.1	-7.8	26	2.3
600	30	4,426	.0	-12.4	27	2.3
550	30	5,117	-4.5	-16.9	28	2.8
500	30	5,861	-9.0	-22.8	28	3.7
450	30	6,669	-14.3	-28.4	29	4.9
400	30	7,552	-20.1	-33.2	28	6.3
350	30	8,531	-27.0	-39.5	28	7.9
300	30	9,622	-34.9	-48.1	29	10.2
250	30	10,870	-44.2		28	13.5
200	30	12,331	-54.7		29	15.7
175	30	13,176	-59.9		29	14.4
150	30	14,126	-65.0		28	11.9
125	30	15,228	-68.7		28	9.1
100	30	16,560	-69.7		31	2.6
80	30	17,899	-66.5		08	3.6
70	30	18,712	-64.3		08	5.2
60	30	19,662	-61.1		09	7.3
50	28	20,806	-57.9		09	8.7
40	27	22,223	-55.4		09	11.7
30	25	24,075	-50.9		09	13.0
25	25	25,270	-48.4		09	13.2
20	25	26,748	-46.1		09	13.7
15	18	28,671	-43.5		08	15.0
10						

LANDER, WY
826 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	1,697	9.1	1.1	22	2.0
1000						
950						
900						
850						
800	30	1,983	11.0	-1.6	25	1.2
750	30	2,519	8.3	-5.3	27	2.6
700	30	3,085	4.3	-8.9	27	4.7
650	30	3,684	.2	-12.6	27	6.9
600	30	4,320	-4.4	-17.5	27	9.2
550	30	4,999	-9.3	-22.1	27	10.8
500	30	5,729	-14.3	-26.5	26	12.7
450	30	6,519	-19.6	-31.9	26	14.0
400	30	7,382	-26.5	-37.1	26	14.3
350	30	8,335	-34.1	-42.9	26	16.1
300	30	9,392	-42.5	-48.5	26	17.5
250	30	10,602	-50.7		26	19.4
200	30	12,035	-55.6		25	19.6
175	30	12,888	-55.1		26	17.1
150	30	13,874	-55.0		26	14.4
125	30	15,034	-56.9		26	11.6
100	30	16,443	-58.4		26	5.5
80	30	17,849	-57.7		20	1.9
70	30	18,693	-57.5		12	1.4
60	30	19,670	-56.1		10	3.0
50	29	20,833	-55.3		09	5.4
40	29	22,264	-53.0		09	6.9
30	27	24,135	-50.6		08	9.5
25	24	25,336	-48.7		09	10.8
20	20	26,801	-46.3		09	11.1
15	15	28,722	-43.2		09	12.0
10						

* LIHUE KAUAI, HI
1015 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	36	23.4	19.0	07	5.5
1000	30	168	22.3	17.5	07	6.4
950	30	612	18.4	15.8	07	7.8
900	30	1,074	14.9	12.1	08	8.0
850	30	1,556	11.7	8.3	08	7.9
800	30	2,062	10.4	-1.3	08	8.4
750	30	2,601	11.2	-9.2	08	7.9
700	30	3,175	9.2	-12.0	08	6.6
650	30	3,785	6.1	-15.8	07	5.7
600	30	4,436	2.5	-18.8	08	4.5
550	30	5,133	-2.3	-22.4	08	3.2
500	30	5,881	-8.1	-26.4	08	2.4
450	29	6,690	-14.0	-31.0	05	.8
400	29	7,572	-20.8	-36.7	29	1.0
350	29	8,548	-28.3	-42.2	26	2.0
300	29	9,630	-37.2	-49.2	27	4.7
250	29	10,865	-46.6		28	8.9
200	29	12,311	-57.4		28	12.5
175	29	13,144	-62.7		28	11.9
150	29	14,[illegible]84	-65.8		28	8.6
125	29	15,188	-67.3		28	4.0
100	29	16,526	-69.5		12	.7
80	29	17,856	-69.1		10	4.6
70	28	18,658	-67.1		09	7.8
60	26	19,598	-63.9		09	10.3
50	25	20,723	-60.8		09	11.5
40	25	22,119	-58.4		09	14.4
30	23	23,947	-54.0		09	17.0
25	23	25,123	-52.0		09	17.4
20	23	26,581	-48.5		09	17.0
15	22	28,485	-45.6		09	17.4
10	16	31,209	-41.7		09	18.2

LITTLE ROCK, AR
1006 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	79	20.6	18.1	22	1.0
1000	29	134	21.7	18.6	21	1.6
950	30	579	22.0	16.0	22	5.3
900	30	1,047	19.5	12.5	22	5.1
850	30	1,538	16.3	9.3	22	4.7
800	30	2,052	13.5	4.4	23	4.4
750	30	2,593	10.5	-.1	23	4.4
700	30	3,164	6.9	-3.2	25	4.6
650	30	3,769	3.2	-7.7	26	5.3
600	30	4,413	-.8	-12.1	26	5.8
550	30	5,103	-5.0	-17.1	24	5.5
500	30	5,845	-9.7	-22.1	25	5.6
450	30	6,651	-15.0	-26.4	26	6.5
400	30	7,532	-21.0	-33.3	26	7.8
350	30	8,507	-28.0	-39.1	26	9.5
300	30	9,593	-36.0	-46.8	27	10.7
250	30	10,834	-45.7		27	13.2
200	30	12,286	-55.9		27	16.3
175	30	13,127	-60.3		27	17.1
150	30	14,084	-62.0		27	12.9
125	30	15,202	-65.9		28	8.7
100	30	16,552	-66.7		29	2.9
80	30	17,908	-64.3		06	1.2
70	30	18,729	-62.2		08	3.4
60	29	19,688	-59.5		09	5.9
50	29	20,834	-57.8		09	7.4
40	29	22,253	-54.5		09	9.1
30	28	24,112	-50.6		09	10.1
25	25	25,299	-48.3		09	10.0
20	24	26,771	-46.6		08	11.2
15	21	28,689	-43.4		08	12.8
10	7	31,446	-39.0			

MCGRATH, AK
998 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	103	8.8	5.8	20	.6
1000	14	136	10.6	5.1	22	.9
950	30	513	9.7	3.3	22	2.5
900	30	960	6.9	1.3	21	2.7
850	30	1,427	3.4	-.2	20	2.8
800	30	1,916	.1	-2.3	19	2.5
750	30	2,431	-3.3	-5.1	18	2.2
700	30	2,974	-6.3	-9.4	17	1.7
650	30	3,550	-9.5	-15.3	18	1.3
600	30	4,164	-13.2	-20.7	18	1.6
550	30	4,822	-17.1	-26.4	19	.8
500	30	5,531	-22.0	-31.4	18	.9
450	30	6,297	-27.5	-37.8	17	.9
400	30	7,134	-34.1	-44.4	14	.3
350	30	8,057	-41.2	-44.8	17	1.3
300	30	9,085	-48.6		21	2.3
250	30	10,273	-51.1		22	4.4
200	30	11,740	-46.4		22	5.2
175	30	12,629	-45.4		22	4.8
150	30	13,657	-45.7		21	3.4
125	29	14,873	-46.4		21	3.4
100	29	16,354	-46.6		18	2.8
80	29	17,832	-47.3		16	2.0
70	29	18,715	-47.6		15	2.1
60	29	19,734	-47.4		13	2.4
50	29	20,940	-47.1		11	3.1
40	27	22,418	-46.5		10	4.2
30	27	24,335	-45.0		09	5.6
25	26	25,561	-43.8		09	7.0
20	23	27,062	-42.4		09	9.4
15	21	29,010	-39.6		09	9.9
10	14	31,800	-34.9			

+ MAJURO, MARSHALL IS.
1010 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	3	27.7	24.1	07	3.9
1000	30	95	26.6	23.1	08	5.5
950	30	548	23.3	21.1	08	8.6
900	30	1,020	20.6	17.7	09	9.2
850	30	1,513	17.8	14.8	09	9.8
800	30	2,031	15.6	11.1	09	9.8
750	30	2,578	13.1	7.8	09	9.7
700	30	3,156	10.2	3.3	09	8.4
650	30	3,770	6.9	.4	09	7.8
600	30	4,425	3.1	-3.0	09	7.6
550	30	5,126	-.8	-6.9	09	6.1
500	30	5,882	-5.0	-11.8	09	4.4
450	30	6,704	-9.5	-17.5	10	2.4
400	30	7,605	-15.0	-23.8	11	2.1
350	30	8,605	-21.8	-31.0	27	.4
300	30	9,719	-30.0	-39.7	25	1.6
250	30	10,990	-40.3	-48.5	27	3.7
200	30	12,472	-52.8		28	7.4
175	30	13,321	-59.4		28	9.3
150	30	14,268	-67.1		29	11.1
125	30	15,350	-73.9		28	9.5
100	30	16,635	-77.8		26	2.1
80	29	17,927	-72.6		09	7.5
70	29	18,720	-68.6		09	10.8
60	29	19,651	-65.2		09	14.3
50	29	20,774	-60.4		09	13.9
40	29	22,180	-55.8		10	7.1
30	29	24,031	-51.4		12	1.1
25	29	25,224	-48.4		22	1.2
20	29	26,704	-45.4		22	1.3
15	23	28,634	-42.6		12	3.1
10						

* MEDFORD, OR
970 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	401	10.7	5.0	28	.7
1000						
950	30	578	12.7	4.5	29	1.0
900	30	1,032	11.2	3.0	31	1.3
850	30	1,507	8.6	.9	34	1.2
800	30	2,007	6.9	-3.9	33	1.8
750	30	2,535	4.8	-9.6	32	3.9
700	30	3,095	2.2	-13.8	30	5.4
650	30	3,690	-.8	-16.8	29	6.8
600	30	4,325	-4.5	-21.5	29	8.4
550	30	5,005	-8.8	-25.3	29	10.1
500	30	5,736	-14.0	-29.2	29	11.6
450	30	6,527	-19.8	-32.8	29	12.9
400	30	7,390	-26.3	-39.6	29	13.7
350	30	8,344	-33.4	-45.5	29	15.2
300	30	9,405	-41.5	-49.7	29	16.3
250	30	10,620	-49.7		29	17.0
200	30	12,059	-55.7		29	17.5
175	30	12,907	-56.8		29	16.8
150	30	13,884	-56.8		28	14.2
125	30	15,037	-57.9		28	10.1
100	30	16,441	-58.5		28	5.3
80	30	17,845	-58.2		30	1.6
70	30	18,688	-57.7		03	2.1
60	29	19,662	-56.4		08	3.4
50	29	20,822	-55.2		08	4.8
40	29	22,254	-53.2		09	6.8
30	27	24,122	-50.5		09	8.6
25	25	25,314	-48.6		08	9.4
20	21	26,798	-46.2		09	11.3
15	20	28,733	-41.5		09	13.1
10	8	31,510	-37.4			

MERIDA, MEXICO
1013 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	11	24.0	22.6	11	1.4
1000	30	121	24.4	22.2	12	4.8
950	30	571	22.9	18.6	13	10.1
900	30	1,043	21.6	10.8	13	9.3
850	30	1,537	19.5	6.0	12	7.2
800	30	2,[illegible]56	16.5	1.7	11	5.7
750	30	2,602	12.8	-.4	11	4.9
700	30	3,177	8.9	-4.9	11	3.8
650	30	3,787	5.2	-7.5	11	3.2
600	30	4,436	1.5	-11.6	12	3.3
550	30	5,132	-2.3	-16.4	11	2.7
500	30	5,882	-6.9	-19.4	09	2.2
450	30	6,697	-11.9	-23.9	08	1.7
400	30	7,589	-17.7	-30.2	06	1.8
350	30	8,577	-24.6	-36.3	04	1.9
300	30	9,678	-32.8	-44.7	32	2.0
250	30	10,935	-42.8		31	3.1
200	30	12,403	-54.5		31	5.8
175	28	13,247	-60.8		31	5.3
150	28	14,191	-67.8		32	6.1
125	27	15,272	-73.4		33	5.4
100	27	16,571	-74.3		03	4.6
80	27	17,882	-70.1		07	7.1
70	25	18,684	-67.5		08	7.2
60	25	19,621	-63.8		08	8.8
50	23	20,747	-60.8		08	11.0
40	23	22,148	-56.9		09	12.5
30	22	23,986	-52.8		09	13.1
25	21	25,169	50.2		10	13.3
20	21	26,640	-46.5		10	13.7
15	19	28,564	-43.6		09	13.6
10	6	31,311	-39.6			

MIAMI, FL
1017 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	4	24.5	22.7	32	.3
1000	30	149	25.3	21.9	17	.6
950	30	600	22.8	18.4	16	2.0
900	30	1,070	19.9	14.3	17	1.5
850	30	1,560	16.5	10.8	17	.9
800	30	2,075	13.8	5.2	20	.9
750	30	2,617	10.7	1.0	21	1.1
700	30	3,189	7.0	-2.3	21	1.3
650	30	3,795	3.6	-3.9	24	1.3
600	30	4,441	.2	-8.7	26	1.5
550	30	5,134	-3.7	-13.6	28	1.9
500	30	5,881	-8.1	-19.1	29	2.3
450	30	6,692	-13.0	-24.4	29	2.4
400	30	7,579	-18.7	-31.1	31	2.7
350	30	8,564	-25.6	-37.5	30	2.7
300	30	9,660	-34.1	-45.8	30	3.5
250	30	10,911	-43.8		30	3.4
200	30	12,372	-55.4		33	5.5
175	30	13,212	-61.3		34	7.0
150	30	14,157	-66.6		34	7.2
125	30	15,248	-70.7		35	4.7
100	30	16,567	-70.8		03	3.1
80	30	17,898	-68.0		06	5.2
70	30	18,707	-64.9		07	7.5
60	30	19,654	-62.2		08	9.8
50	29	20,790	-58.6		09	11.8
40	29	22,200	-56.0		10	13.6
30	29	24,047	-52.3		10	14.8
25	29	25,236	-49.2		09	15.5
20	29	26,710	-46.3		09	16.3
15	22	28,628	-43.8		09	17.7
10	5	31,388	-39.8			

MIDLAND, TX
914 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	29	874	19.9	15.9	16	2.8
1000						
950						
900	29	1,003	20.3	15.2	18	5.1
850	29	1,498	21.3	7.7	20	9.2
800	29	2,023	19.6	3.2	20	5.6
750	29	2,575	16.1	-.9	22	3.1
700	29	3,156	11.5	-4.6	27	2.2
650	29	3,770	6.7	-7.6	30	3.1
600	29	4,421	1.1	-10.7	30	3.6
550	29	5,113	-4.5	-16.0	30	4.5
500	29	5,856	-9.7	-21.8	29	5.2
450	29	6,662	-14.7	-30.5	27	5.9
400	29	7,544	-20.9	-35.9	26	7.7
350	28	8,518	-28.3	-41.4	26	9.8
300	26	9,601	-36.6	-48.7	26	14.2
250	26	10,839	-45.8		26	17.5
200	25	12,291	-55.2		26	20.9
175	25	13,135	-59.5		26	19.6
150	25	14,090	-63.3		26	15.9
125	25	15,201	-67.3		26	12.5
100	25	16,536	-69.0		26	6.4
80	25	17,882	-65.6		11	1.0
70	25	18,699	-62.7		09	4.3
60	25	19,655	-60.2		09	6.9
50	25	20,802	-57.2		09	8.1
40	25	22,223	-54.4		09	9.4
30	23	24,078	-51.5		09	11.4
25	22	25,272	-48.8		09	12.1
20	19	26,747	-45.9		09	12.6
15	18	28,673	-42.1		09	13.3
10	8	31,455	-37.5			

MONTERREY, MEXICO
961 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	26	423	22.6	20.0	12	1.6
1000						
950	26	554	22.2	19.7	12	2.8
900	26	1,024	20.3	17.2	13	5.0
850	26	1,518	19.2	13.1	14	6.1
800	26	2,039	17.8	7.1	15	5.5
750	26	2,589	15.0	1.9	16	3.6
700	26	3,169	11.0	-2.8	18	.7
650	26	3,783	6.7	-7.6	34	1.9
600	26	4,435	2.0	-11.7	34	3.2
550	26	5,131	-2.5	-15.5	35	2.8
500	26	5,880	-7.6	-20.5	36	2.3
450	26	6,693	-12.7	-25.1	34	2.1
400	24	7,577	-18.7	-32.4	31	2.9
350	24	8,563	-25.4	-38.9	29	5.0
300	24	9,660	-33.8	-46.0	28	8.0
250	24	10,913	-43.4		27	11.9
200	24	12,377	-54.7		27	13.2
175	24	13,220	-60.7		27	11.6
150	24	14,166	-66.3		27	9.7
125	24	15,257	-71.2		29	5.5
100	24	16,568	-73.4		01	.7
80	24	17,883	-69.0		07	4.7
70	24	18,689	-66.0		08	8.2
60	23	19,631	-62.7		08	10.0
50	21	20,763	-59.7		09	11.7
40	20	22,165	-56.7		09	12.8
30	20	24,008	-52.3		09	15.4
25	19	25,190	-50.4		09	15.3
20	17	26,655	-46.8		08	17.5
15	17	28,574	-44.1		08	17.0
10	11	31,317	-39.4		08	21.7

MONETT, MO
964 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	438	18.1	16.4	16	2.2
1000						
950	30	566	19.8	16.5	19	3.6
900	30	1,033	19.3	12.7	22	7.3
850	30	1,524	16.8	7.1	24	7.1
800	30	2,038	13.9	3.8	25	6.5
750	30	2,579	10.0	1.1	26	6.0
700	30	3,149	6.2	-5.1	26	5.4
650	30	3,752	2.6	-9.1	27	5.6
600	29	4,397	-1.4	-12.1	27	5.3
550	29	5,085	-5.7	-18.5	28	6.1
500	29	5,826	-10.4	-23.4	27	6.5
450	29	6,629	-15.5	-29.6	27	7.7
400	29	7,508	-21.7	-34.8	27	9.0
350	29	8,481	-28.7	-41.1	26	10.1
300	29	9,563	-37.1	-47.7	26	12.3
250	29	10,798	-46.6		26	14.6
200	29	12,248	-55.7		26	17.9
175	29	13,090	-59.7		27	17.2
150	29	14,047	-62.1		27	14.4
125	29	15,170	-64.3		26	9.8
100	29	16,529	-65.2		27	4.7
80	29	17,893	-63.7		25	.3
70	29	18,716	-61.5		09	2.8
60	29	19,677	-59.4		09	5.0
50	28	20,819	-57.2		09	6.7
40	25	22,239	-54.2		09	8.3
30	25	24,097	-51.4		09	9.3
25	23	25,280	-49.5		09	9.3
20	21	26,748	-46.6		09	10.3
15	15	28,672	-43.3		09	12.0
10						

RAWINSONDE DATA

Average monthly values

NASHVILLE, TN — 996 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	[illegible]	19.3	[illegible]	17	1.1
1000	[illegible]	[illegible]	[illegible]	15.8		
950	[illegible]	[illegible]	[illegible]	[illegible]	22	[illegible]
900	[illegible]	[illegible]	17.7	12.7	24	4.8
850	[illegible]	[illegible]	14.7	7.9	25	4.1
800	30	[illegible]	11.9	2.8	26	4.2
750	30	[illegible]	9.1	-3.0	27	4.8
700	30	[illegible]	5.8	-6.8	27	3.9
650	[illegible]	[illegible]	2.2	-8.8	27	3.8
600	30	[illegible]	[illegible]	-14.8	26	4.0
550	30	[illegible]	-5.5	-19.1	26	5.1
500	30	[illegible]	-10.2	-23.4	26	6.0
450	30	6,636	-15.5	[illegible]	26	6.1
400	30	[illegible]	-21.8	-33.7	27	6.8
350	30	8,487	-28.6	[illegible]	26	7.7
300	30	[illegible]	-37.0	-46.9	26	9.2
250	30	[illegible]	-46.4		28	10.8
200	29	12,253	-56.5		28	12.3
175	29	13,092	-60.5		28	13.1
150	29	14,046	-63.4		28	11.9
125	28	15,161	-65.2		29	9.4
100	28	[illegible]	-65.6		31	3.5
80	28	17,880	-63.6		02	2.6
70	28	18,703	[illegible]		05	[illegible]
60	28	19,662	-59.7		07	5.2
50	[illegible]	20,809	-57.2		08	7.8
40	27	[illegible]	-54.4		09	7.4
30	27	[illegible]	-50.7		08	[illegible]
25	[illegible]	25,281	-48.5		09	[illegible]
20	[illegible]	[illegible]	-45.9		09	11.9
15	[illegible]	28,675	-44.4		09	11.0
10	[illegible]	31,384	[illegible]			

NOME, AK — [illegible] MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	5	4.0	1.7	[illegible]	.7
1000	26	100	6.2	[illegible]	[illegible]	1.4
950	30	504	5.6	[illegible]	[illegible]	[illegible]
900	30	945	3.7	-5.5	[illegible]	1.9
850	30	1,407	1.3	-7.7	[illegible]	[illegible]
800	30	1,894	-1.1	[illegible]	[illegible]	[illegible]
750	30	2,406	-3.8	-13.1	[illegible]	[illegible]
700	30	2,948	-6.7	-16.7	[illegible]	3.4
650	30	3,523	-10.4	-20.0	[illegible]	4.1
600	30	4,135	-13.8	-25.2	[illegible]	4.3
550	30	4,791	-17.9	-29.8	21	4.9
500	30	5,497	-22.9	[illegible]	[illegible]	[illegible]
450	30	6,261	-28.4	-41.0	[illegible]	[illegible]
400	30	7,094	-34.9	-45.8	[illegible]	5.8
350	30	8,015	-41.8	[illegible]	[illegible]	[illegible]
300	30	9,041	-48.6		[illegible]	6.0
250	30	10,230	-51.4		13	5.6
200	30	11,698	-45.7		[illegible]	4.5
175	30	12,590	-45.0		11	4.2
150	30	13,620	-45.0		[illegible]	3.8
125	30	14,837	-45.4		19	3.4
100	30	16,324	-45.7		18	2.5
80	30	17,807	-46.6		15	1.6
70	30	18,693	-46.8		14	3.0
60	29	19,720	-46.7		13	[illegible]
50	29	20,931	-46.3		[illegible]	3.4
40	28	22,412	-45.8		[illegible]	4.5
30	28	24,333	-44.5		[illegible]	5.8
25	28	25,557	-43.8		09	[illegible]
20	[illegible]	27,058	-42.2		09	3.6
15	23	29,006	-40.1		[illegible]	7.4
10	11	31,819	-35.5			

NORTH PLATTE, NE — [illegible] MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	849	[illegible]	[illegible]	[illegible]	.7
1000						
950						
900	30	992	[illegible]	9.8	[illegible]	1.6
850	30	1,478	15.4	5.2	23	3.7
800	30	1,991	13.3	.7	26	5.0
750	30	2,531	[illegible]	-3.3	26	[illegible]
700	30	3,100	[illegible]	-6.7	26	7.0
650	30	3,703	[illegible]	-9.0	27	8.5
600	30	4,343	-2.5	-12.5	27	9.9
550	30	[illegible]	[illegible]	-18.6	27	11.3
500	30	5,764	[illegible]	-23.9	26	12.2
450	30	6,561	[illegible]	-29.7	26	13.5
400	30	7,435	[illegible]	-35.3	26	15.2
350	29	8,400	[illegible]	[illegible]	25	17.2
300	29	9,472	-39.5	-48.9	25	17.6
250	29	10,696	-48.4		24	19.7
200	29	12,136	[illegible]		24	22.1
175	29	12,983	-57.3		24	20.1
150	29	13,954	-58.5		25	16.7
125	29	15,098	-59.7		25	12.4
100	29	16,488	-60.5		25	7.6
80	29	17,882	-59.1		25	2.2
70	[illegible]	18,720	-58.7		16	.7
60	[illegible]	19,691	-57.3		10	2.7
50	29	20,850	-55.3		09	5.0
40	29	22,279	-53.6		09	6.7
30	28	24,136	[illegible]		09	8.9
25	27	25,327	-49.5		09	9.2
20	25	[illegible]	[illegible]		09	10.0
15	[illegible]	28,724	-43.6		09	10.8
10	16	31,470	[illegible]		09	13.9

OAKLAND, CA — [illegible] MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	6	[illegible]	[illegible]	26	[illegible]
1000	30	119	[illegible]	[illegible]	26	[illegible]
950	30	549	[illegible]	[illegible]	28	3.1
900	30	1,008	[illegible]	[illegible]	32	4.7
850	30	1,495	[illegible]	[illegible]	32	4.7
800	30	2,008	[illegible]	-7.3	[illegible]	4.4
750	30	2,548	[illegible]	-10.8	30	4.1
700	30	3,118	6.7	-14.3	30	4.6
650	30	3,722	[illegible]	-17.4	29	5.3
600	30	4,365	-1.3	-21.1	29	6.1
550	30	5,052	-6.0	-25.4	29	7.1
500	30	5,791	-11.2	[illegible]	29	9.0
450	30	6,590	-17.2	-33.5	29	10.2
400	30	7,462	-23.8	-38.9	29	11.9
350	30	8,427	-31.0	-45.9	29	13.4
300	30	9,498	-39.5	-51.6	29	15.1
250	30	10,721	-48.6		30	17.6
200	30	12,161	-56.6		29	17.3
175	30	13,004	-58.5		28	17.3
150	29	13,971	-59.6		28	15.3
125	29	15,107	-61.2		28	[illegible]
100	29	16,487	-62.3		28	[illegible]
80	29	17,866	-61.7		32	1.9
70	29	18,697	-60.5		04	2.0
60	27	19,661	-58.9		07	[illegible]
50	27	20,811	-57.0		08	5.6
40	27	22,230	-55.2		09	6.8
30	26	24,078	-52.2		08	6.4
25	26	25,262	-50.6		08	9.4
20	26	26,728	-47.4		09	[illegible]
15	24	28,650	-44.2		09	[illegible]
10	10	31,406	-39.6			

OMAHA, NE — [illegible] MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	[illegible]	[illegible]	16.9	14.2	[illegible]	[illegible]
1000						
950	[illegible]	536	18.4	13.1	[illegible]	[illegible]
900	[illegible]	1,000	17.5	9.4	[illegible]	[illegible]
850	[illegible]	1,487	15.1	5.9	[illegible]	[illegible]
800	[illegible]	1,998	12.0	2.2	[illegible]	[illegible]
750	[illegible]	2,536	8.7	-.4	[illegible]	[illegible]
700	30	3,103	[illegible]	-4.4	[illegible]	[illegible]
650	30	3,704	1.3	-9.6	[illegible]	[illegible]
600	30	[illegible]	-2.7	-15.5	[illegible]	[illegible]
550	29	5,030	-6.9	[illegible]	[illegible]	[illegible]
500	29	5,767	-11.6	[illegible]	[illegible]	[illegible]
450	29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
400	29	7,438	-23.6	-37.6	[illegible]	[illegible]
350	29	8,404	-30.4	-42.6	[illegible]	[illegible]
300	29	9,479	[illegible]	[illegible]	[illegible]	[illegible]
250	29	10,707	[illegible]		[illegible]	[illegible]
200	29	12,155	-55.0		[illegible]	[illegible]
175	29	13,003	-57.4		[illegible]	[illegible]
150	29	13,975	-58.5		[illegible]	[illegible]
125	29	15,118	[illegible]		[illegible]	[illegible]
100	29	16,508	-60.6		[illegible]	[illegible]
80	29	17,898	[illegible]		[illegible]	[illegible]
70	29	18,737	-58.5		[illegible]	[illegible]
60	29	19,709	-57.0		[illegible]	3.3
50	[illegible]	20,871	-54.9		[illegible]	[illegible]
40	27	22,309	-52.8		[illegible]	[illegible]
30	[illegible]	24,184	-49.7		[illegible]	[illegible]
25	[illegible]	25,382	-47.9		[illegible]	[illegible]
20	[illegible]	26,869	-45.4		[illegible]	[illegible]
15	[illegible]	28,805	-41.5		[illegible]	[illegible]
10	13	31,577	[illegible]			

PAGO PAGO, AMERICAN SAMOA — 1013 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	5	26.3	23.6	10	5.1
1000	30	16	25.9	22.1	10	5.2
950	30	567	22.1	20.0	09	5.2
900	30	[illegible]	18.9	16.1	08	5.1
850	30	1,526	[illegible]	11.0	07	4.9
800	30	2,042	[illegible]	5.0	07	4.9
750	30	2,586	12.1	2.4	07	3.7
700	30	3,161	9.4	-5.2	07	3.7
650	30	3,773	6.5	-7.4	07	3.3
600	30	4,425	3.0	-14.8	07	[illegible]
550	30	5,125	-1.3	-19.7	08	1.4
500	30	5,877	-5.9	-23.6	18	.3
450	30	6,694	-11.5	-27.6	24	.8
400	30	7,587	-17.5	-33.4	23	2.6
350	30	8,576	-24.5	-39.3	23	4.7
300	30	9,677	-33.2	-47.0	22	7.2
250	30	10,932	-43.1		22	10.6
200	30	[illegible]	-54.8		22	12.3
175	30	13,240	-60.9		23	11.1
150	30	14,183	-67.1		24	10.3
125	30	15,208	-73.0		24	9.7
100	30	16,560	[illegible]		25	6.0
80	30	17,849	-73.7		26	2.9
70	29	18,636	-69.1		26	1.4
60	29	[illegible]	-64.1		10	1.0
50	29	20,693	-62.0		08	2.4
40	27	22,086	-58.9		07	7.4
30	[illegible]	[illegible]	-54.1		29	1.7
25	[illegible]	25,085	[illegible]		27	5.6
20	[illegible]	26,547	-47.9		27	9.4
15	[illegible]	28,455	-44.5		27	12.1
10	17	31,200	-39.7		27	15.6

PEORIA, IL — 991 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	200	17.6	15.1	18	1.6
1000						
950	30	560	19.4	13.2	23	4.9
900	30	1,025	17.0	10.4	25	5.7
850	30	1,511	[illegible]	5.1	25	5.7
800	30	2,021	11.5	1.1	26	6.2
750	30	2,557	8.1	-2.1	26	7.1
700	30	3,123	4.1	-3.6	26	8.1
650	30	3,723	.8	-8.7	26	8.8
600	30	4,362	-2.8	-13.9	26	9.1
550	30	5,046	-7.1	-18.8	26	9.7
500	30	5,783	-11.7	-23.6	26	10.5
450	30	6,582	-16.8	-28.8	26	10.6
400	30	7,456	-23.2	-34.7	25	11.6
350	29	8,423	-30.4	-41.8	26	13.8
300	29	9,498	-38.5	-48.8	26	16.3
250	29	10,728	-47.2		27	[illegible]
200	29	12,175	[illegible]		27	[illegible]
175	29	13,019	-58.6		27	16.3
150	29	13,984	-59.6		27	13.9
125	29	15,120	-61.1		27	[illegible]
100	29	16,498	-62.5		27	5.3
80	29	17,880	-61.1		30	1.6
70	29	18,713	-59.4		06	1.6
60	28	19,679	-57.7		08	3.0
50	[illegible]	20,837	-55.8		08	6.0
40	26	22,269	-53.3		09	7.6
30	23	24,135	-50.2		09	[illegible]
25	[illegible]	25,334	-48.0		09	9.3
20	18	26,806	-45.5		09	9.9
15	14	28,724	-42.4		09	[illegible]

PITTSBURGH, PA — 974 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	29	359	16.7	14.1	22	1.5
1000						
950	29	577	17.4	13.7	24	3.1
900	29	1,039	15.6	11.1	27	5.2
850	29	1,523	12.5	7.6	27	5.7
800	29	2,029	9.5	2.6	27	6.6
750	29	2,562	6.3	-1.7	27	7.1
700	29	3,125	[illegible]	-7.2	28	7.7
650	29	3,723	.0	-13.2	27	8.7
600	29	4,360	-3.2	-19.3	27	9.3
550	29	5,044	[illegible]	-20.3	28	10.2
500	29	5,780	-11.7	-26.9	28	11.4
450	29	6,580	-16.8	-30.8	28	12.1
400	29	7,454	-23.0	-36.7	28	12.5
350	29	8,421	-31.3	-42.0	28	13.1
300	28	9,490	-38.6	-47.2	28	14.9
250	27	10,722	-47.3		28	17.0
200	27	12,168	-56.0		28	18.4
175	27	13,011	-59.4		28	17.2
150	27	13,970	-61.3		28	14.4
125	27	15,097	-62.4		28	10.6
100	26	16,472	-61.8		29	5.8
80	25	17,852	[illegible]		31	1.8
70	25	18,685	[illegible]		03	1.7
60	25	19,656	-57.5		07	3.2
50	25	20,812	-55.9		08	5.9
40	25	22,240	-53.8		09	7.3
30	25	24,104	[illegible]		09	8.4
25	25	25,300	-48.3		09	8.7
20	[illegible]	26,777	-45.4		08	10.1
15	24	28,725	-42.4		09	11.1

PONAPE, CAROLINE IS. — 1005 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	39	28.0	24.2	07	2.6
1000	30	80	26.8	23.3	08	3.0
950	30	533	23.3	21.0	09	6.6
900	30	1,004	20.3	17.8	09	8.6
850	30	1,497	17.4	14.3	09	9.2
800	30	2,015	15.4	9.1	09	8.6
750	30	2,561	12.8	6.1	09	7.8
700	30	3,138	9.5	2.5	09	7.4
650	30	3,750	5.8	.0	10	7.8
600	30	4,402	2.2	-3.3	10	7.5
550	30	5,101	-1.2	-6.2	10	6.3
500	30	5,856	-5.3	-12.3	10	5.7
450	30	6,677	-9.7	-18.0	10	5.9
400	30	7,577	-15.2	-24.1	10	5.0
350	30	8,577	-21.9	-31.8	11	3.6
300	30	9,689	-30.3	-40.5	13	1.5
250	30	10,960	-40.5	-47.2	21	1.7
200	29	12,440	-53.7		26	3.6
175	29	13,287	-60.0		27	5.0
150	29	14,232	-67.6		28	5.4
125	29	15,310	-75.0		28	3.2
100	29	16,588	-78.9		09	2.3
80	29	17,871	-73.9		08	8.1
70	29	18,659	-69.9		09	11.5
60	29	19,585	-66.1		09	14.7
50	28	20,704	-60.9		09	15.0
40	28	22,102	-57.4		10	7.9
30	25	23,940	-52.3		09	[illegible]
25	24	25,127	-49.8		13	1.6
20	22	26,593	-46.8		21	1.7
15	19	28,511	-45.0		09	2.2
10	9	31,250	-40.6			

PORTLAND, ME — 1014 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	20	[illegible]	12.9	[illegible]	[illegible]
1000	28	151	[illegible]	9.7	[illegible]	1.3
950	30	577	15.2	7.6	[illegible]	1.6
900	30	1,033	[illegible]	5.6	[illegible]	[illegible]
850	30	1,511	9.6	3.2	[illegible]	[illegible]
800	30	2,013	[illegible]	-1.6	[illegible]	[illegible]
750	30	2,541	[illegible]	-5.6	[illegible]	4.8
700	30	3,099	[illegible]	-9.9	28	[illegible]
650	30	3,693	-1.5	-14.3	28	[illegible]
600	30	4,327	-4.7	-17.8	28	[illegible]
550	30	5,007	-8.5	-22.2	28	[illegible]
500	30	5,740	-12.9	-27.2	[illegible]	9.4
450	30	6,535	-18.2	-32.1	[illegible]	[illegible]
400	30	7,405	[illegible]	-37.1	[illegible]	[illegible]
350	30	8,366	-31.5	-44.0	[illegible]	[illegible]
300	30	9,437	-39.4	-48.5	28	[illegible]
250	30	10,662	[illegible]		28	[illegible]
200	30	12,108	[illegible]		29	[illegible]
175	30	12,956	[illegible]		29	[illegible]
150	30	13,928	[illegible]		[illegible]	[illegible]
125	30	15,077	-58.3		[illegible]	[illegible]
100	30	16,481	-58.2		[illegible]	6.5
80	30	17,891	[illegible]		[illegible]	2.9
70	29	18,742	-55.9		34	[illegible]
60	29	19,726	-54.8		[illegible]	[illegible]
50	28	20,897	-53.8		[illegible]	[illegible]
40	28	22,337	-51.9		[illegible]	6.4
30	28	24,212	-49.5		[illegible]	8.3
25	27	25,411	[illegible]		[illegible]	[illegible]
20	26	26,890	-45.5		[illegible]	[illegible]
15	21	28,834	-43.5		[illegible]	[illegible]
10	14	[illegible]	-36.3		[illegible]	[illegible]

QUILLAYUTE, WA — 1012 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	58	8.7	[illegible]	09	.2
1000	30	156	8.8	[illegible]	33	.3
950	30	580	8.2	[illegible]	[illegible]	1.9
900	30	[illegible]	[illegible]	.5	[illegible]	[illegible]
850	30	1,495	[illegible]	[illegible]	29	[illegible]
800	30	1,988	[illegible]	[illegible]	30	3.9
750	30	2,508	.6	[illegible]	30	4.4
700	30	[illegible]	-2.4	[illegible]	30	5.7
650	30	3,644	-5.2	-17.8	30	7.2
600	30	4,269	-8.8	[illegible]	29	7.7
550	30	[illegible]	-13.3	-24.5	29	[illegible]
500	30	5,656	-18.3	[illegible]	29	9.7
450	[illegible]	[illegible]	-23.8	[illegible]	28	[illegible]
400	29	7,280	-29.8	[illegible]	29	12.8
350	29	8,221	-36.6	[illegible]	29	[illegible]
300	29	9,271	-43.4	[illegible]	29	[illegible]
250	29	10,481	[illegible]		[illegible]	[illegible]
200	29	11,933	[illegible]		29	[illegible]
175	29	12,795	-53.1		29	[illegible]
150	29	13,789	[illegible]		29	[illegible]
125	29	14,962	-54.2		29	[illegible]
100	29	16,390	[illegible]		28	4.4
80	28	17,817	-55.2		33	1.1
70	28	18,668	-55.6		04	.4
60	28	19,652	-54.9		07	[illegible]
50	28	20,820	-54.2		08	4.1
40	27	22,256	[illegible]		08	[illegible]
30	[illegible]	[illegible]	[illegible]		09	[illegible]
25	[illegible]	25,327	-48.5		09	9.4
20	[illegible]	26,804	[illegible]		09	[illegible]
15	[illegible]	[illegible]	[illegible]		09	[illegible]
10	17	31,522	[illegible]			

RAPID CITY, SD — [illegible] MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	966	11.3	8.0	31	1.2
1000						
950						
900	[illegible]	1,000	13.0	7.8	31	1.4
850	30	1,465	13.9	3.5	[illegible]	4.8
800	30	1,975	11.3	.6	[illegible]	5.4
750	30	2,511	7.7	-3.0	28	5.2
700	30	3,075	3.4	-5.7	[illegible]	5.4
650	30	3,673	-.7	-8.9	[illegible]	6.9
600	30	4,307	[illegible]	-14.0	[illegible]	9.2
550	30	4,985	-9.9	-18.7	26	[illegible]
500	30	5,713	-14.9	-25.8	[illegible]	[illegible]
450	30	6,502	-20.2	-31.9	26	[illegible]
400	30	7,364	-26.3	-38.4	26	15.7
350	30	8,319	-33.3	-43.9	[illegible]	18.2
300	30	9,381	-41.2	-50.9	25	18.7
250	30	10,597	-49.5		25	20.1
200	30	12,039	-54.3		25	19.5
175	30	12,893	-55.0		25	18.0
150	30	13,878	-55.3		25	[illegible]
125	30	15,039	-57.0		25	[illegible]
100	30	16,448	-58.0		25	[illegible]
80	30	17,858	-57.2		[illegible]	[illegible]
70	30	18,704	-56.5		14	[illegible]
60	30	19,685	-55.4		09	[illegible]
50	[illegible]	20,853	-54.4		[illegible]	[illegible]
40	[illegible]	22,289	52.6		09	[illegible]
30	[illegible]	[illegible]	-49.6		09	[illegible]
25	[illegible]	25,358	-48.5		[illegible]	[illegible]
20	[illegible]	[illegible]	-46.3		09	[illegible]
15	[illegible]	28,750	-42.9		[illegible]	[illegible]
10	[illegible]	31,441	-38.4		09	[illegible]
7		33,902	[illegible]			

ST CLOUD, MN — 976 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	316	[illegible]	11.9	08	.5
1000						
950	30	544	[illegible]	10.8	[illegible]	1.7
900	30	1,004	[illegible]	7.9	[illegible]	3.5
850	30	1,485	11.7	5.2	25	5.0
800	30	[illegible]	[illegible]	[illegible]	26	5.4
750	30	2,521	5.7	-4.5	26	5.3
700	30	[illegible]	[illegible]	-7.5	26	6.3
650	30	3,678	[illegible]	[illegible]	25	7.5
600	30	4,313	[illegible]	[illegible]	25	8.2
550	30	4,993	-8.6	[illegible]	25	9.4
500	30	5,725	[illegible]	[illegible]	26	10.1
450	[illegible]	6,519	[illegible]	[illegible]	26	11.3
400	[illegible]	7,385	[illegible]	[illegible]	26	12.8
350	[illegible]	8,344	[illegible]	-43.1	[illegible]	14.5
300	[illegible]	9,410	[illegible]	-49.1	[illegible]	17.4
250	[illegible]	10,628	[illegible]		[illegible]	21.3
200	[illegible]	12,072	-55.0		[illegible]	20.6
175	[illegible]	12,922	-56.1		[illegible]	18.2
150	[illegible]	[illegible]	[illegible]		[illegible]	13.7
125	[illegible]	15,058	[illegible]		[illegible]	10.9
100	[illegible]	16,466	[illegible]		[illegible]	5.8
80	[illegible]	17,875	[illegible]		[illegible]	1.4
70	[illegible]	18,722	[illegible]		[illegible]	.4
60	[illegible]	19,705	[illegible]		[illegible]	2.7
50	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
40	[illegible]	22,313	-51.9		[illegible]	[illegible]
30	[illegible]	24,194	-48.8		[illegible]	[illegible]
25	[illegible]	25,397	-47.0		[illegible]	[illegible]
20	[illegible]	26,885	[illegible]		[illegible]	[illegible]
15	[illegible]	28,826	[illegible]		[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]			

ST PAUL ISLAND, AK — 1011 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	28	10	2.5	[illegible]	36	[illegible]
1000	25	118	[illegible]	1.2	30	[illegible]
950	25	514	2.7	.6	20	.4
900	28	951	1.9	[illegible]	20	1.4
850	28	1,411	.4	[illegible]	20	1.4
800	28	1,896	-1.5	-6.5	19	[illegible]
750	28	2,409	-3.8	-8.8	13	1.6
700	28	2,951	-6.6	-13.5	13	1.6
650	28	3,527	-9.5	-18.3	14	1.2
600	28	4,143	-12.7	-23.3	14	1.4
550	28	4,802	-17.0	-27.6	17	1.3
500	28	5,511	-22.1	-32.1	17	1.4
450	[illegible]	6,278	-27.6	-36.4	18	1.7
400	26	7,117	-33.7	-43.2	21	[illegible]
350	26	8,044	-40.2	-45.9	23	[illegible]
300	26	9,077	-47.4		22	[illegible]
250	26	10,271	-50.4		23	[illegible]
200	26	11,737	-47.4		23	[illegible]
175	25	12,619	-46.6		22	5.3
150	25	13,642	-46.6		22	4.5
125	25	14,849	-47.6		20	3.5
100	25	16,323	-47.8		18	[illegible]
80	25	17,794	-48.1		15	[illegible]
70	25	18,674	-48.4		14	3.7
60	25	19,689	-48.7		13	3.6
50	25	[illegible]	-48.9		11	4.3
40	24	[illegible]	-48.2		11	[illegible]
30	22	24,255	[illegible]		[illegible]	6.8
25	22	25,465	-46.1		[illegible]	[illegible]
20	20	26,956	-44.4		[illegible]	[illegible]
15	20	28,894	-41.8		[illegible]	[illegible]
10	16	31,674	-36.7		[illegible]	[illegible]
7	[illegible]	[illegible]	-31.3			

SALEM, IL — 995 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	174	[illegible]	15.9	[illegible]	[illegible]
1000	[illegible]	182	[illegible]	18.2		
950	30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
900	30	1,038	[illegible]	[illegible]	[illegible]	[illegible]
850	30	1,525	15.1	6.5	25	[illegible]
800	30	[illegible]	[illegible]	2.1	[illegible]	[illegible]
750	30	2,575	[illegible]	-1.9	[illegible]	[illegible]
700	30	3,143	5.4	-4.8	[illegible]	[illegible]
650	30	3,745	1.8	-8.1	[illegible]	[illegible]
600	30	4,387	-2.0	-12.5	[illegible]	[illegible]
550	30	5,073	-5.9	-17.8	25	[illegible]
500	30	[illegible]	-10.3	[illegible]	[illegible]	[illegible]
450	30	6,617	[illegible]	[illegible]	[illegible]	[illegible]
400	30	[illegible]	-21.9	-35.5	[illegible]	[illegible]
350	30	8,467	-28.9	[illegible]	[illegible]	[illegible]
300	30	9,549	-36.9	[illegible]	[illegible]	[illegible]
250	30	[illegible]	-46.3		[illegible]	[illegible]
200	30	[illegible]	[illegible]		[illegible]	[illegible]
175	30	13,080	-58.8		[illegible]	[illegible]
150	30	[illegible]	-60.3		[illegible]	[illegible]
125	30	[illegible]	-62.3		[illegible]	[illegible]
100	30	[illegible]	-62.9		[illegible]	[illegible]
80	30	17,928	-61.4		[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
60	[illegible]	[illegible]	-57.4		[illegible]	[illegible]
50	29	[illegible]	[illegible]		[illegible]	[illegible]
40	[illegible]	[illegible]	-53.3		[illegible]	[illegible]
30	28	24,190	-49.7		[illegible]	[illegible]
25	28	25,391	[illegible]		[illegible]	[illegible]
20	27	26,874	[illegible]		[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]

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RAWINSONDE DATA

Average monthly values

JUNE 1975

SALEM, OR
1011 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	61	10.0	7.5	30	.7
1000	30	154	11.6	7.4	34	1.0
950	30	582	10.1	4.7	36	2.4
900	30	1,031	8.2	2.8	34	2.3
850	30	1,502	6.6	-3.3	32	3.2
800	30	1,998	4.9	-6.7	32	4.1
750	30	2,523	2.9	-10.4	31	5.3
700	30	3,078	.0	-14.2	31	6.2
650	30	3,669	-2.9	-17.6	30	7.4
600	29	4,296	-6.8	-20.1	30	9.2
550	29	4,970	-11.0	-24.1	30	10.8
500	29	5,696	-15.8	-27.8	29	12.3
450	29	6,482	-21.4	-32.6	29	13.9
400	29	7,340	-27.5	-38.3	29	15.5
350	29	8,291	-34.2	-43.7	29	17.0
300	29	9,350	-41.7	-49.1	29	17.7
250	29	10,567	-48.8		30	18.8
200	28	12,017	-54.8		30	17.9
175	28	12,869	-55.9		30	16.4
150	28	13,851	-55.3		29	13.7
125	28	15,014	-55.9		29	9.5
100	28	16,432	-56.3		28	5.3
80	28	17,848	-56.3		33	1.5
70	28	18,696	-56.4		02	1.2
60	28	19,677	-55.6		07	2.6
50	28	20,842	-54.6		08	4.1
40	28	22,277	-52.5		08	5.6
30	27	24,150	-50.5		09	7.5
25	25	25,343	-48.9		09	8.6
20	25	26,818	-46.1		09	10.3
15	24	28,743	-43.5		09	10.2
10	19	31,497	-39.1		08	14.5

SALT LAKE CITY, UT
870 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	1,288	12.3	5.5	16	2.3
1000						
950						
900						
850	30	1,482	14.9	1.1	17	3.3
800	30	1,993	12.8	-2.4	18	2.9
750	30	2,532	8.7	-4.5	24	2.3
700	30	3,098	4.4	-8.1	26	4.2
650	30	3,697	.4	-11.2	26	6.9
600	30	4,334	-4.2	-14.4	26	8.5
550	30	5,013	-9.2	-19.1	26	9.8
500	30	5,743	-14.4	-25.3	26	10.9
450	30	6,534	-19.9	-30.1	25	12.4
400	30	7,397	-26.3	-37.0	25	13.9
350	30	8,350	-33.7	-43.7	25	14.9
300	30	9,410	-41.8	-52.5	26	15.4
250	30	10,622	-50.4		26	16.4
200	30	12,057	-56.0		26	16.5
175	30	12,905	-56.5		26	16.1
150	30	13,884	-56.9		26	13.5
125	29	15,036	-58.0		26	9.9
100	29	16,435	-60.0		26	6.2
80	29	17,832	-59.0		22	.8
70	29	18,671	-58.4		10	1.7
60	28	19,643	-57.2		09	4.0
50	28	20,800	-56.0		09	5.6
40	27	22,226	-53.9		08	5.9
30	27	24,086	-50.7		08	8.9
25	27	25,279	-49.0		08	9.7
20	27	26,752	-46.7		09	10.2
15	21	28,653	-44.0		09	11.5
10	17	31,415	-39.4			

SAN DIEGO, CA
999 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	124	14.2	12.0	23	.5
1000	8	131	13.6	10.6		
950	30	543	11.8	8.3	30	.3
900	30	1,000	17.3	-1.6	31	1.9
850	30	1,488	17.6	-4.3	30	4.0
800	30	2,004	15.8	-7.4	28	4.3
750	30	2,548	12.7	-9.9	29	2.8
700	30	3,122	9.1	-12.6	27	2.1
650	30	3,732	5.6	-16.1	27	3.3
600	30	4,381	1.5	-19.4	27	5.1
550	30	5,075	-3.4	-23.6	26	6.8
500	30	5,821	-9.0	-28.3	27	7.8
450	30	6,627	-15.0	-32.7	26	9.2
400	30	7,507	-21.7	-38.4	26	10.9
350	30	8,478	-29.5	-44.7	27	12.2
300	30	9,555	-38.4	-51.9	27	14.1
250	30	10,783	-47.8		27	15.8
200	30	12,227	-56.1		27	21.0
175	30	13,070	-58.9		27	22.0
150	30	14,031	-61.6		27	19.8
125	30	15,154	-64.2		26	15.1
100	30	16,511	-66.6		27	7.8
80	29	17,865	-65.3		32	1.0
70	29	18,684	-62.7		09	2.6
60	29	19,639	-60.8		09	4.8
50	29	20,780	-58.3		09	6.7
40	27	22,193	-55.6		09	8.9
30	26	24,040	-52.5		08	10.4
25	25	25,222	-50.2		08	10.9
20	25	26,690	-47.1		09	12.4
15	24	28,601	-44.8		09	12.8
10	14	31,331	-40.2		09	14.8

SAN JUAN, P. R.
1017 MB

Standard pressure surface (mb)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	6	25.7	22.5	11	2.7
1000	30	155	24.7	21.5	12	4.8
950	30	604	21.7	18.9	12	7.9
900	30	1,072	18.9	15.1	12	8.6
850	30	1,562	16.3	9.1	13	8.5
800	30	2,077	14.0	4.1	12	8.7
750	30	2,619	11.1	-.3	12	8.1
700	30	3,191	7.5	-6.0	13	6.2
650	30	3,798	3.8	-10.8	13	5.9
600	30	4,443	.1	-16.1	12	5.3
550	30	5,136	-3.0	-20.8	11	4.6
500	30	5,884	-7.7	-24.9	11	2.8
450	30	6,696	-12.9	-29.6	09	.9
400	30	7,583	-19.0	-33.7	32	1.5
350	30	8,567	-26.3	-39.3	30	2.8
300	29	9,660	-34.7	-47.2	29	4.9
250	28	10,905	-44.7		29	7.7
200	28	12,360	-56.1		29	9.2
175	28	13,199	-61.7		29	10.7
150	28	14,140	-67.4		29	10.9
125	28	15,229	-70.9		30	8.3
100	27	16,551	-70.5		32	3.0
80	27	17,879	-68.9		09	5.8
70	27	18,683	-65.9		10	9.1
60	27	19,625	-63.1		10	12.0
50	27	20,755	-60.1		11	15.5
40	27	22,154	-58.1		11	17.4
30	27	23,986	-53.0		11	18.1
25	25	25,170	-49.8		11	17.7
20	24	26,642	-45.8		11	16.2
15	22	28,576	-41.8		10	16.8
10	13	31,330	-38.5		11	16.8

SAN NICOLAS, AK
996 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC						
1000						
950						
900						
850						
800						
750						
700						
650						
600						
550						
500						
450						
400						
350						
300						
250						
200						
175						
150						
125						
100						
80						
70						
60						
50						
40						
30						
25						
20						
15						
10						

* SAULT STE MARIE, MI
987 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	221	12.4	10.0	10	.4
1000						
950	30	545	14.3	9.2	20	2.1
900	30	1,002	12.7	7.2	23	3.7
850	30	1,480	10.0	4.4	25	4.4
800	30	1,982	7.1	.8	26	5.1
750	30	2,511	4.2	-2.7	26	5.7
700	30	3,070	1.5	-9.1	26	6.8
650	30	3,664	-1.6	-13.1	26	7.6
600	30	4,297	-5.3	-17.6	26	8.6
550	30	4,975	-9.2	-23.1	26	8.6
500	30	5,706	-13.7	-27.7	26	9.7
450	29	6,496	-19.1	-32.1	27	10.2
400	29	7,363	-25.0	-38.6	27	10.5
350	29	8,322	-32.3	-43.7	27	11.2
300	29	9,388	-40.3	-49.0	27	13.3
250	29	10,612	-47.4		27	17.4
200	29	12,067	-53.4		28	20.5
175	29	12,922	-55.2		28	16.3
150	29	13,904	-56.1		27	11.8
125	29	15,061	-56.7		28	9.4
100	29	16,475	-56.9		28	5.7
80	29	17,891	-56.3		32	1.7
70	28	18,740	-55.2		02	1.0
60	28	19,726	-54.1		05	2.3
50	28	20,899	-53.0		07	3.7
40	28	22,343	-51.6		08	5.3
30	28	24,219	-49.4		08	8.0
25	27	25,416	-47.8		08	9.5
20	25	26,907	-45.1		09	10.4
15	23	28,842	-42.1		09	11.4
10	8	31,637	-37.8			

* SHREVEPORT, LA
1006 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	79	21.0	19.3	16	1.3
1000	30	129	21.6	19.5	17	1.8
950	30	576	21.6	17.1	20	4.3
900	30	1,045	19.6	12.8	21	4.8
850	30	1,536	17.2	8.0	21	4.4
800	30	2,052	14.4	4.2	22	4.3
750	30	2,594	11.3	.5	23	3.9
700	30	3,167	7.8	-3.2	25	3.6
650	30	3,774	3.7	-6.3	26	3.6
600	30	4,419	-.5	-10.7	28	4.1
550	30	5,110	-4.8	-17.2	28	4.1
500	30	5,853	-9.5	-23.7	28	5.0
450	30	6,660	-14.3	-27.9	28	6.0
400	30	7,542	-20.5	-33.7	27	7.0
350	30	8,520	-27.4	-39.2	28	8.2
300	30	9,608	-35.8	-46.7	28	10.2
250	30	10,850	-45.3		28	12.7
200	30	12,304	-55.7		28	15.8
175	30	13,146	-60.1		28	15.1
150	30	14,099	-64.1		28	13.4
125	30	15,205	-67.9		28	10.0
100	30	16,540	-68.9		29	3.2
80	30	17,885	-65.7		08	2.7
70	29	18,701	-64.0		09	4.8
60	27	19,655	-61.1		09	7.7
50	27	20,796	-57.8		09	7.6
40	26	22,214	-55.5		09	9.9
30	22	24,066	-51.2		09	11.9
25	21	25,256	-48.8		09	11.8
20	20	26,734	-45.9		09	13.6
15	11	28,654	-42.8		09	14.3
10						

SPOKANE, WA
930 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	720	10.0	4.4	19	2.4
1000						
950						
900	30	994	11.9	1.4	23	3.1
850	30	1,471	10.1	-2.1	25	2.6
800	30	1,972	6.5	-3.6	25	3.3
750	30	2,498	2.7	-6.1	26	3.6
700	30	3,053	-1.1	-9.8	27	4.0
650	30	3,640	-4.6	-14.7	27	4.9
600	30	4,266	-8.2	-19.1	27	6.2
550	30	4,937	-12.6	-23.4	27	7.2
500	30	5,658	-17.3	-28.3	28	8.6
450	30	6,440	-22.5	-33.2	27	9.8
400	30	7,294	-28.7	-38.7	27	10.9
350	30	8,240	-35.4	-42.7	27	12.5
300	30	9,293	-43.0	-45.7	28	15.1
250	30	10,503	-49.9		28	15.8
200	30	11,949	-52.4		28	15.4
175	30	12,813	-52.1		28	13.1
150	30	13,812	-51.7		28	9.8
125	30	14,993	-52.9		27	8.0
100	30	16,431	-53.8		28	3.9
80	30	17,862	-54.3		33	.4
70	30	18,719	-54.2		07	1.3
60	30	19,708	-53.8		09	2.5
50	30	20,883	-52.7		09	4.3
40	30	22,328	-51.4		08	5.6
30	30	24,207	-49.1		09	7.7
25	30	25,407	-47.9		09	9.2
20	30	26,886	-45.5		08	10.0
15	29	28,823	-42.1		09	11.3
10	14	31,592	-37.3		09	12.1

TAMPA, FL
1016 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	8	23.5	21.0	10	.8
1000	30	148	24.0	20.8	15	.6
950	30	597	22.1	17.8	24	1.4
900	30	1,066	19.5	13.0	25	1.7
850	30	1,556	16.4	9.2	25	2.0
800	30	2,070	13.3	4.3	26	2.3
750	30	2,610	10.3	-1.0	27	2.4
700	30	3,181	6.9	-4.2	27	2.3
650	30	3,787	3.4	-6.6	26	2.4
600	30	4,432	-.2	-11.0	27	2.8
550	30	5,124	-3.9	-17.6	27	3.5
500	30	5,870	-8.4	-23.0	28	3.7
450	30	6,680	-13.3	-27.2	27	4.4
400	30	7,566	-19.4	-33.2	27	5.1
350	30	8,548	-26.1	-38.8	27	5.7
300	29	9,644	-34.6	-45.7	27	6.4
250	29	10,892	-44.3		27	7.4
200	29	12,351	-55.5		28	8.9
175	29	13,191	-61.3		29	8.5
150	29	14,135	-66.4		29	7.0
125	29	15,228	-70.4		31	4.2
100	28	16,553	-70.2		02	3.2
80	28	17,881	-68.5		06	4.1
70	28	18,688	-65.6		07	6.7
60	28	19,633	-62.3		08	8.7
50	27	20,769	-58.7		09	10.6
40	27	22,180	-55.9		09	11.9
30	26	24,027	-52.1		09	11.9
25	25	25,214	-49.9		09	12.8
20	20	26,678	-48.1		03	14.3
15	18	28,587	-44.6		09	15.3
10	9	31,295	-42.3			

TOPEKA, KS
982 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	268	18.4	15.9	19	1.0
1000						
950	30	551	19.0	14.0	22	4.4
900	30	1,017	18.4	10.6	23	6.0
850	30	1,505	15.7	7.0	23	6.7
800	30	2,018	12.9	3.2	24	6.7
750	30	2,558	9.6	-.9	25	7.2
700	30	3,127	6.0	-6.7	25	7.0
650	30	3,729	1.9	-9.0	26	7.5
600	30	4,370	-2.2	-13.7	27	7.9
550	30	5,056	-6.5	-19.5	27	8.4
500	30	5,794	-11.5	-25.6	27	10.0
450	30	6,594	-16.6	-31.5	27	10.7
400	30	7,469	-22.8	-36.9	27	11.2
350	30	8,437	-29.8	-41.9	27	12.2
300	30	9,515	-38.0	-48.4	27	13.9
250	30	10,746	-47.3		26	16.6
200	29	12,190	-56.0		26	18.5
175	29	13,035	-58.3		26	16.9
150	29	14,000	-60.4		26	16.7
125	29	15,133	-61.9		26	12.0
100	29	16,509	-62.7		25	5.7
80	29	17,888	-61.2		21	1.1
70	29	18,720	-59.7		11	1.3
60	29	19,688	-58.0		07	3.8
50	29	20,842	-56.2		08	5.9
40	29	22,269	-53.9		09	8.9
30	28	24,128	-50.5		09	9.3
25	26	25,317	-48.7		09	9.2
20	22	26,793	-45.8		09	10.1
15	17	28,732	-41.8		09	10.8
10						

TRUK, CAROLINE IS.
+ 1010 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	2	28.2	2 4	07	2.5
1000	30	95	27.2	23.9	08	3.5
950	30	548	23.7	21.0	08	7.1
900	30	1,021	20.7	16.8	09	8.3
850	30	1,514	17.8	13.3	09	8.1
800	30	2,032	15.3	10.4	09	8.1
750	30	2,578	12.9	6.0	09	7.9
700	30	3,155	9.7	1.9	09	7.6
650	30	3,767	6.4	-1.6	09	6.9
600	30	4,420	2.5	-4.3	09	6.2
550	30	5,120	-1.1	-9.1	09	5.5
500	30	5,875	-5.1	-13.6	09	5.8
450	30	6,696	-9.7	-18.5	08	5.2
400	30	7,597	-15.1	-26.0	09	3.8
350	30	8,597	-21.9	-32.9	07	2.7
300	30	9,709	-30.3	-41.2	10	1.7
250	30	10,979	-40.5	-48.7	17	1.8
200	30	12,459	-53.1		23	2.9
175	30	13,306	-60.2		25	3.5
150	30	14,250	-67.9		27	3.7
125	30	15,326	-75.4		30	2.6
100	30	16,601	-79.0		06	1.6
80	30	17,886	-73.5		09	9.5
70	30	18,674	-70.4		09	11.5
60	30	19,599	-66.5		09	15.3
50	30	20,716	-61.6		09	16.1
40	30	22,113	-58.0		09	10.4
30	28	23,946	-52.7		10	6.0
25	25	25,127	-50.4		11	2.3
20	13	26,593	-47.4		17	.3
15	22	28,503	-45.2		11	2.9
10	16	31,235	-41.6		11	6.3
7						

* TUCSON, AZ
922 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	789	19.5	-.3	16	2.4
1000						
950						
900	30	996	24.3	1.0	18	2.0
850	30	1,493	21.8	-.5	23	1.5
800	30	2,015	18.1	-3.9	25	2.0
750	30	2,563	14.1	-7.0	22	3.7
700	30	3,140	9.8	-10.0	22	5.9
650	30	3,751	5.6	-12.2	21	7.2
600	30	4,399	.9	-16.1	22	8.7
550	30	5,093	-3.7	-21.8	23	8.6
500	30	5,838	-9.1	-27.6	24	9.3
450	30	6,644	-14.9	-33.0	25	10.9
400	30	7,523	-21.8	-38.5	25	12.2
350	30	8,495	-29.3	-44.5	26	13.9
300	30	9,574	-38.0	-51.0	26	16.1
250	30	10,807	-46.6		26	19.3
200	30	12,258	-55.4		26	23.6
175	30	13,103	-58.8		26	23.1
150	30	14,062	-62.2		26	20.1
125	30	15,179	-66.1		26	15.1
100	30	16,523	-68.3		26	8.1
80	30	17,868	-65.6		32	.4
70	30	18,684	-63.1		09	3.2
60	30	19,639	-60.4		09	6.4
50	30	20,783	-57.7		09	7.1
40	30	22,199	-55.4		09	8.6
30	29	24,050	-51.6		08	10.9
25	29	25,238	-49.6		09	12.0
20	27	26,710	-47.1		09	12.9
15	25	28,625	-44.5		09	13.5
10	15	31,378	-39.8			
7						

* VANDENBERG AFB, CA
1003 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	29	100	11.0	7.7	34	1.4
1000	26	130	10.9	8.5	34	1.6
950	29	553	11.5	4.9	35	4.0
900	29	1,011	17.9	-3.3	35	4.9
850	29	1,499	17.2	-5.6	35	4.8
800	29	2,014	14.6	-7.9	34	3.8
750	29	2,556	11.8	-10.1	32	3.5
700	29	3,128	8.1	-13.8	30	4.2
650	29	3,736	4.6	-16.5	29	4.7
600	29	4,383	.4	-20.2	28	6.1
550	29	5,074	-4.2	-23.5	29	7.6
500	29	5,818	-9.4	-27.9	28	8.7
450	29	6,623	-15.3	-32.7	28	11.2
400	29	7,501	-22.3	-38.5	28	12.9
350	29	8,470	-30.2	-44.8	28	14.5
300	29	9,544	-39.0	-52.4	28	14.8
250	29	10,769	-48.5		28	16.9
200	29	12,208	-57.1		28	18.6
175	29	13,048	-59.6		27	19.0
150	29	14,009	-61.3		27	16.9
125	29	15,135	-63.5		27	14.1
100	28	16,498	-64.8		27	6.6
80	28	17,860	-63.7		30	1.3
70	26	18,688	-61.7		08	2.9
60	25	19,648	-60.1		09	6.1
50	25	20,793	-57.8		09	7.6
40	25	22,208	-55.6		09	9.6
30	25	24,057	-52.3		09	11.5
25	25	25,242	-50.0		09	12.3
20	25	26,711	-47.2		09	12.9
15	23	28,635	-44.2		09	14.0
10	22	31,385	-39.8		08	16.3
7	14	33,853	-34.6			

VICTORIA, TX
1009 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	33	23.2	22.1	14	1.7
1000	30	112	24.6	23.0	16	3.0
950	30	563	22.8	19.7	17	7.1
900	30	1,034	20.7	12.8	18	7.7
850	30	1,527	18.6	8.1	18	7.1
800	30	2,045	15.7	4.3	18	6.1
750	30	2,590	12.5	.2	19	4.9
700	30	3,166	9.0	-3.3	20	3.5
650	30	3,775	4.8	-7.0	21	2.2
600	30	4,423	.9	-12.1	22	1.1
550	30	5,117	-3.5	-16.7	28	.9
500	30	5,864	-8.4	-23.0	29	1.4
450	30	6,673	-13.5	-28.3	26	2.3
400	30	7,560	-19.1	-35.1	27	4.0
350	30	8,543	-26.1	-41.4	28	5.8
300	30	9,637	-34.3	-47.4	28	9.0
250	30	10,887	-44.1		28	11.8
200	30	12,349	-54.8		27	14.1
175	30	13,192	-60.4		27	13.7
150	30	14,140	-65.8		28	11.1
125	30	15,236	-70.2		28	7.8
100	30	16,554	-71.8		28	2.5
80	30	17,882	-67.8		07	4.7
70	30	18,690	-65.2		09	6.3
60	30	19,637	-61.8		09	7.8
50	30	20,776	-58.5		09	8.8
40	30	22,187	-55.8		09	11.8
30	29	24,038	-51.4		09	12.8
25	25	25,223	-49.0		09	13.1
20	21	26,691	-46.3		09	13.9
15	17	28,616	-43.7		09	14.9
10	9	31,373	-38.6			
7						

* WAKE IS., PACIFIC AREA
1016 MB

Standard pressure surface (mb)	No of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	29	5	26.9	22.4	08	5.0
1000	29	141	26.2	21.9	09	5.8
950	29	592	22.3	19.4	09	6.6
900	29	1,061	19.3	14.6	10	6.9
850	29	1,551	16.2	10.3	10	6.7
800	29	2,065	13.9	5.1	09	6.2
750	29	2,608	11.8	-.5	08	6.1
700	29	3,182	8.5	-5.8	08	5.7
650	29	3,792	5.8	-11.8	08	5.9
600	29	4,443	2.4	-15.2	08	6.0
550	29	5,141	-1.6	-18.8	07	6.0
500	29	5,893	-6.4	-22.0	07	5.3
450	29	6,709	-11.2	-27.5	07	5.1
400	29	7,603	-17.1	-32.4	06	4.8
350	28	8,593	-24.5	-39.1	07	4.8
300	28	9,693	-33.2	-47.1	05	6.4
250	28	10,948	-43.5		04	6.1
200	28	12,409	-55.6		03	6.6
175	28	13,247	-62.0		03	5.9
150	28	14,185	-68.9		03	5.1
125	28	15,261	-74.2		03	4.7
100	27	16,559	-74.4		05	5.2
80	27	17,869	-70.9		08	6.9
70	27	18,665	-68.3		08	8.3
60	26	19,594	-65.6		08	11.5
50	25	20,714	-61.1		09	13.9
40	25	22,108	-59.2		09	16.5
30	24	23,924	-55.3		09	18.5
25	23	25,095	-52.5		09	18.1
20	22	26,549	-46.9		09	19.7
15	22	28,458	-45.0		09	19.1
10	19	31,184	-42.1		09	20.3
7	5	33,582	-38.5			

RAWINSONDE DATA

Average monthly values

JUNE 1972

Standard pressure surface (mb)	* WALLOPS ISLAND, VA NASA 1016 MB						WASHINGTON DULLES INT. AP 1007 MB					
	No of observations	Dynamic height	Temperature	Dew Point *	Resultant Wind Direction	Resultant Wind Speed M.p.s.	No of observations	Dynamic height	Temperature	Dew Point *	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	4	21.1	18.3	25	.6	30	85	18.0	15.8	27	.5
1000	30	146	20.8	15.5	28	.8	25	163	18.5	15.6	28	.6
950	30	589	19.3	12.1	29	2.3	30	586	18.7	11.4	28	2.8
900	30	1,053	16.5	10.0	30	3.0	30	1,049	16.1	8.8	29	4.2
850	30	1,537	13.5	6.5	29	4.1	30	1,532	13.0	6.6	29	5.1
800	30	2,046	10.8	2.1	29	4.9	30	2,040	9.9	4.1	29	5.9
750	30	2,582	7.8	-2.1	29	5.8	30	2,574	7.0	-2.4	29	6.4
700	30	3,148	4.7	-6.8	28	7.0	30	3,138	4.2	-9.2	28	6.5
650	30	3,748	1.5	-10.6	28	7.6	30	3,738	1.1	-12.3	28	7.6
600	30	4,389	-1.7	-16.4	28	8.9	30	4,378	-2.4	-16.3	28	8.8
550	30	5,077	-5.8	-21.6	28	9.0	30	5,064	-6.1	-21.2	28	9.2
500	30	5,817	-10.2	-26.7	28	9.6	30	5,804	-10.6	-25.9	27	9.8
450	30	6,621	-15.5	-31.8	28	10.2	30	6,606	-15.9	-31.2	27	11.1
400	30	7,500	-21.4	-35.8	28	11.7	30	7,484	-22.0	-36.6	27	11.3
350	30	8,444	-28.5	-42.4	28	13.1	30	8,455	-29.0	-43.1	27	13.5
300	30	9,557	-36.8	-48.9	27	16.1	30	9,536	-37.3	-49.5	28	15.0
250	30	10,793	-46.3		28	16.6	30	10,771	-46.6		28	16.3
200	30	12,242	-54.4		29	18.4	30	12,219	-55.8		29	17.7
175	30	13,082	-60.5		29	16.1	30	13,061	-59.6		29	16.1
150	30	14,036	-63.1		28	14.6	30	14,020	-62.2		29	11.8
125	30	15,154	-63.9		29	12.6	30	15,144	-62.8		28	9.9
100	30	16,515	-63.0		30	6.6	30	16,519	-62.8		30	6.4
80	30	17,942	-61.8		35	2.8	30	17,896	-61.5		36	2.3
70	30	18,733	-60.0		03	1.2	30	18,728	-59.6		05	1.6
60	30	19,699	-58.4		06	4.1	29	19,697	-57.6		07	4.2
50	30	20,853	-56.3		08	6.9	29	20,853	-56.0		08	5.5
40	30	22,281	-53.5		09	8.8	29	22,281	-53.3		08	7.1
30	29	24,146	-50.0		09	9.7	28	24,149	-49.9		09	8.3
25	28	25,343	-48.1		09	10.5	26	25,338	-48.5		09	9.0
20	28	26,823	-45.4		09	12.4	23	26,812	-45.0		09	10.5
15	24	28,755	-42.5		09	13.6	22	28,747	-42.3		09	11.3
10	18	31,479	-39.5				13	31,499	-38.2		10	9.9

Standard pressure surface (mb)	WAYCROSS, GA 1011 MB						WINNEMUCCA, NV 867 MB						WINSLOW, AZ 85[illegible] MB					
	No of observations	Dynamic height	Temperature	Dew Point *	Resultant Wind Direction	Resultant Wind Speed M.p.s.	No of observations	Dynamic height	Temperature	Dew Point *	Resultant Wind Direction	Resultant Wind Speed M.p.s.	No of observations	Dynamic height	Temperature	Dew Point *	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	30	44	21.6	20.5	29	.4	30	1,312	9.9	-1.1	25	.7	30	1,487	[illegible]	-4.8	[illegible]	[illegible]
1000	30	139	22.3	19.5	29	.5												
950	30	587	22.0	16.2	28	1.1												
900	30	1,055	19.2	13.1	27	1.0												
850	30	1,545	16.2	9.4	27	1.7	30	1,479	14.3	-1.3	30	.9	22	1,510	[illegible]	-4.4	17	[illegible]
800	30	2,059	13.1	5.3	27	2.1	30	1,990	11.8	-3.3	30	2.2	30	2,010	[illegible]	-2.7	26	[illegible]
750	30	2,599	10.1	.3	27	2.2	30	2,526	7.9	-5.3	29	3.3	30	2,557	[illegible]	-5.5	[illegible]	3.8
700	30	3,169	6.5	-2.9	27	2.8	30	3,090	3.9	-7.8	28	5.4	30	3,134	[illegible]	-8.1	24	[illegible]
650	29	3,774	3.1	-8.1	28	3.2	30	3,688	-.2	-10.3	27	7.2	30	3,743	[illegible]	-11.5	[illegible]	5.6
600	29	4,418	-.6	-13.6	27	3.6	30	4,324	-4.5	-15.2	27	8.6	30	4,389	[illegible]	-15.3	23	[illegible]
550	29	5,109	-4.1	-19.4	27	4.4	30	5,003	-9.0	-21.4	27	9.6	30	5,078	-5.5	-20.5	24	[illegible]
500	29	5,855	-8.5	-22.8	27	4.3	30	5,734	-13.9	-27.[illegible]	28	10.6	30	5,818	-10.7	-27.1	24	[illegible]
450	29	6,664	-13.4	-27.7	26	4.8	30	6,526	-19.5	-32.[illegible]	28	12.[illegible]	30	6,620	-16.5	-32.1	25	12.4
400	29	7,550	-19.6	-33.1	26	4.3	30	7,389	-26.1	-37.[illegible]	28	13.5	30	7,493	[illegible]	-38.3	[illegible]	[illegible]
350	29	8,531	-26.8	-39.2	26	4.5	30	8,344	-33.4	-43.2	29	14.[illegible]	30	8,458	-30.9	-43.9	[illegible]	[illegible]
300	29	9,621	-35.5	-47.7	25	6.0	30	9,405	-41.6	-49.8	28	15.[illegible]	30	9,530	-39.1	[illegible]	[illegible]	[illegible]
250	27	10,869	-45.0		25	8.0	30	10,616	-50.4		28	17.4	30	[illegible]	-48.2		[illegible]	[illegible]
200	27	12,325	-55.7		27	9.6	28	12,058	-55.3		28	15.9	30	12,198	-56.3		[illegible]	[illegible]
175	26	13,162	-60.4		27	9.4	28	12,907	-56.9		27	15.5	30	13,042	-58.2		[illegible]	[illegible]
150	26	14,113	-64.9		29	7.0	28	13,883	-57.2		28	13.0	30	[illegible]	-60.0		[illegible]	[illegible]
125	26	15,216	-67.8		29	5.0	28	15,032	-58.6		27	10.[illegible]	29	15,143	[illegible]		[illegible]	[illegible]
100	26	16,583	-68.7		12	1.6	28	16,430	-59.7		26	5.4	29	16,506	-65.3		[illegible]	[illegible]
80	26	17,900	-65.5		06	3.6	28	17,825	-59.4		29	1.[illegible]	29	17,871	-62.7		[illegible]	[illegible]
70	26	18,718	-63.1		07	6.5	28	18,663	-58.5		08	[illegible]	28	18,698	-61.2		[illegible]	[illegible]
60	25	19,671	-60.2		08	9.0	28	19,636	-57.3		08	3.3	28	19,659	[illegible]		[illegible]	[illegible]
50	25	20,817	-57.0		09	9.7	27	20,793	-56.1		09	5.[illegible]	28	20,808	[illegible]		[illegible]	[illegible]
40	25	22,240	-54.3		09	10.1	26	22,217	-54.4		09	6.3	27	22,234	-54.2		[illegible]	8.3
30	25	24,100	-50.6		09	10.9	26	24,074	-51.3		08	7.9	25	24,090	-50.8		[illegible]	[illegible]
25	25	25,294	-48.7		09	12.5	25	25,267	-49.2		08	8.6	24	25,284	-49.0		[illegible]	[illegible]
20	24	26,771	-46.3		09	13.9	23	26,740	-46.3		09	10.5	23	26,757	[illegible]		[illegible]	[illegible]
15	21	28,695	-43.[illegible]		08	16.0	19	28,672	-43.2		09	11.[illegible]	17	[illegible]	[illegible]		[illegible]	[illegible]
10	11	31,472	-38.3				10	31,400	-39.1				9	31,416	-37.8			

Standard pressure surface (mb)	YAKUTAT, AK 1015 MB						+ YAP, CAROLINE IS. 1009 MB						YUCCA FLAT, NV 878 MB					
	No of observations	Dynamic height	Temperature	Dew Point *	Resultant Wind Direction	Resultant Wind Speed M.p.s.	No of observations	Dynamic height	Temperature	Dew Point *	Resultant Wind Direction	Resultant Wind Speed M.p.s.	No of observations	Dynamic height	Temperature	Dew Point *	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SFC	28	12	7.3	5.6	10	1.1	30	14	28.0	24.4	10	3.3	30	1,198	13.5	-6.0	31	.8
1000	27	143	7.2	5.4	12	1.5	30	89	27.1	23.5	10	4.0						
950	28	548	4.9	2.7	14	2.4	30	542	23.4	21.0	[illegible]	6.5						
900	28	948	3.2	-1.2	14	2.0	30	1,014	20.6	17.2	10	7.2						
850	28	1,460	1.4	-4.4	14	2.3	30	1,507	17.7	13.7	09	6.5	30	1,476	19.6	.9	33	1.6
800	28	1,947	-.6	-7.3	15	2.8	30	2,025	15.4	10.0	09	6.3	30	1,995	16.3	-2.2	26	1.1
750	28	2,461	-3.3	-10.1	16	2.4	30	2,571	12.6	6.6	09	6.2	30	2,539	12.5	-5.4	25	2.3
700	28	3,004	-6.4	-13.0	16	2.4	30	3,148	9.5	3.2	09	6.4	30	3,113	8.3	-8.5	24	4.2
650	28	3,580	-9.6	-16.0	15	2.4	30	3,760	6.3	-.8	09	7.3	30	3,720	3.5	-10.7	24	4.6
600	28	4,194	-13.2	-21.7	15	2.4	30	4,413	2.6	-4.6	09	7.3	30	4,363	-1.[illegible]	-14.0	25	4.8
550	28	4,852	-17.4	-27.4	16	2.5	30	5,112	-1.3	-9.0	09	6.7	30	5,049	-6.6	-19.2	26	5.[illegible]
500	28	5,560	-21.7	-33.1	17	3.0	30	5,867	-5.5	-13.5	09	5.7	30	5,786	-11.9	-25.2	26	7.7
450	28	6,328	-26.8	-38.0	18	2.7	30	6,687	-10.1	-19.8	09	5.4	30	6,585	-17.3	-30.8	27	9.5
400	28	7,168	-32.7	-42.8	19	2.9	30	7,585	-15.7	-26.5	10	5.1	30	7,456	-23.9	-35.9	27	11.6
350	28	8,[illegible]	-38.6	-46.7	22	4.8	30	8,582	-22.5	-32.8	11	4.2	29	8,418	-31.3	-43.1	28	12.2
300	28	9,141	-45.2		23	5.5	30	9,692	-31.0	-41.1	13	2.7	29	9,488	-39.8	-50.0	28	15.1
250	28	10,348	-48.3		24	6.2	30	10,958	-41.2	-51.5	17	2.4	29	10,711	-48.5		27	17.2
200	28	11,819	-47.7		25	5.6	30	12,432	-53.9		19	2.2	29	12,151	-56.3		28	16.3
175	28	12,701	-47.5		26	5.4	30	13,275	-61.[illegible]		23	1.9	29	12,996	-57.8		27	15.9
150	28	13,720	-47.6		26	3.9	30	14,215	-68.4		[illegible]	1.1	29	13,966	-59.0		27	16.1
125	28	14,923	-48.4		25	2.9	29	15,290	-75.3		34	1.0	28	15,108	-6[illegible].5		27	12.8
100	28	16,390	-49.1		25	1.9	29	16,566	-79.1		07	6.6	28	16,489	-63.3		26	7.2
80	28	17,853	-49.2		19	.8	29	17,852	-73.4		08	11.9	28	17,864	-61.8		28	1.6
70	28	18,729	-49.4		14	.9	29	18,643	-69.1		09	14.6	28	18,694	-60.[illegible]		08	1.0
60	28	19,740	-49.2		11	1.4	29	19,573	-65.8		09	16.6	28	19,658	-58.9		09	3.6
50	28	20,937	-48.9		12	2.2	29	20,693	-61.6		09	17.1	27	20,810	-57.2		10	5.2
40	27	22,402	-47.8		09	4.0	29	22,091	-57.8		09	13.5	24	22,222	-55.1		09	6.9
30	24	24,315	-45.9		08	5.7	27	23,927	-52.6		09	9.1	22	24,073	-51.[illegible]		09	9.1
25	23	25,536	-44.5		09	7.0	26	25,117	-49.4		09	6.9	22	25,260	-50.1		09	9.0
20	21	27,028	-43.0		09	8.1	25	26,591	-46.5		11	6.6	21	26,724	-47.9		09	10.9
15	19	28,979	-40.1		09	9.3	24	28,511	-43.7		10	7.6	17	28,637	-45.[illegible]		09	13.4
10	11	31,794	-35.4				14	31,243	-41.1				8	31,360	-40.4			

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SOLAR RADIATION INTENSITIES

Tabulated in langleys per minute on a surface normal to the direction of the sun. JUNE 1975

ALBUQUERQUE, N. MEX.

Date	Sun's zenith distance A M				*	P M			
	78.7°	75.7°	70.7°	60.0°		60.0°	70.7°	75.7°	78.7°
	Air mass								
	4.19	3.35	2.51	1.67	*	1.67	2.51	3.35	4.19
1	----	----	----	1.11	1.35	1.13	.97	----	----
2	.72	.78	.92	----	1.29	----	----	----	----
3	.64	.73	----	1.04	1.32	----	.97	.83	.74
4	----	----	.80	----	1.23	----	1.00	.89	.78
5	.78	.87	.96	1.14	1.35	1.15	1.00	.85	.75
6	.86	.93	1.06	1.19	1.39	----	.99	.84	----
8	.62	.72	.86	1.01	----	----	----	----	----
9	----	----	.91	1.08	1.34	(1.02)	----	----	----
10	.80	.88	1.00	1.14	1.37	----	.95	.81	.72
11	.89	.95	1.08	1.18	1.41	1.22	1.08	.93	.86
12	.93	1.00	1.11	1.25	----	1.04	.76	.66	.58
13	.83	.91	1.04	1.17	1.38	(1.13)	(.91)	----	----
14	.79	.87	1.00	1.15	----	----	----	----	----
15	.82	.88	1.02	1.16	----	----	.81	----	----
16	----	----	----	1.12	----	----	----	----	----
17	.62	.73	.84	1.04	(1.34)	----	----	----	----
19	.57	.62	.79	.99	----	----	.88	----	----
20	.81	.87	1.01	1.15	1.38	1.08	----	----	----
21	----	----	.99	1.18	1.39	.91	.88	.74	.61
22	.77	.83	.99	1.16	1.39	.92	.95	.81	.71
23	.84	.92	1.04	1.17	1.38	1.03	.78	.65	.56
24	.76	.84	.97	1.12	1.32	1.11	.94	----	----
25	.81	.88	1.01	1.16	1.37	1.04	D(.73)	D(.72)	D(.60)
26	.92	.99	1.11	1.28	1.43	1.15	.90	.79	.67
27	.87	.92	1.07	1.18	1.38	----	.91	.79	----
28	.77	.84	.99	1.12	1.35	1.00	.81	----	----
29	.75	.82	.98	1.16	1.35	1.11	.87	.73	.65
30	.74	.81	.95	1.10	1.32	----	----	----	.69
Averages	.78	.85	.98	1.14	1.36	1.07	.91	.79	.69

MADISON, WIS.

Date	Sun's zenith distance A M				*	P M			
	78.7°	75.7°	70.7°	60.0°		60.0°	70.7°	75.7°	78.7°
	Air mass								
	4.69	3.75	2.81	1.88	*	1.88	2.81	3.75	4.69
2	----	S .70	S .83	S .98	----	----	----	----	----
6	S .75	S .87	S .99	S 1.18	----	----	----	----	----
8	S .80	S .91	S 1.02	S 1.17	----	----	----	----	----
18	S .63	S .75	S .86	----	----	----	----	----	----
21	----	----	----	----	----	----	S .78	S .63	S .52
Averages	.73	.81	.93	1.11	----	----	.78	.63	.52

MAUNA LOA OBSERVATORY, HAWAII

Date	Sun's zenith distance A M				*	P M			
	78.7°	75.7°	70.7°	60.0°		60.0°	70.7°	75.7°	78.7°
	Air mass								
	3.36	2.69	2.01	1.34	*	1.34	2.01	2.69	3.36
1	1.18	1.24	1.30	1.44	1.57	1.39	1.24	1.19	1.12
2	1.14	1.21	1.32	1.44	1.57	1.40	1.28	1.18	1.11
3	1.14	1.21	1.31	1.42	1.56	1.37	1.23	1.13	1.06
4	1.13	1.20	1.30	1.41	1.54	----	----	----	----
5	----	----	----	----	1.60	1.48	1.40	1.32	1.26
6	1.16	1.25	1.34	1.46	1.59	1.41	1.26	1.16	1.09
7	----	----	----	1.46	1.58	----	----	----	----
8	1.11	1.20	1.30	1.43	1.56	1.40	1.29	1.19	1.12
9	1.16	1.24	1.33	1.43	1.57	1.40	1.29	1.21	1.13
10	1.12	1.20	1.30	1.41	----	1.39	1.27	1.17	1.08
11	1.13	1.21	1.31	1.42	1.55	1.35	1.22	1.12	1.03
13	1.17	1.24	1.33	1.43	1.55	----	----	----	----
14	----	----	----	----	----	1.45	1.34	1.23	1.16
15	1.21	1.26	1.36	1.46	----	----	----	----	----
16	----	----	1.32	1.44	1.58	1.40	----	----	----
23	1.09	1.18	----	1.40	1.57	1.41	1.29	1.19	1.11
25	----	----	----	----	----	1.40	1.27	1.17	1.08
26	1.15	1.23	1.32	1.44	1.57	1.42	1.29	1.19	1.11
27	1.16	1.24	1.33	1.45	1.59	1.40	1.27	1.17	1.08
28	1.14	1.22	1.31	1.43	1.73	----	----	----	----
29	1.16	1.23	1.32	1.43	----	----	----	----	----
30	1.16	1.24	1.33	1.44	----	1.36	1.24	1.13	1.07
Averages	1.15	1.22	1.32	1.43	1.58	1.40	1.28	1.18	1.11

BLUE HILL, MASS.

Date	Sun's zenith distance A M				*	P M			
	78.7°	75.7°	70.7°	60.0°		60.0°	70.7°	75.7°	78.7°
	Air mass								
	4.89	3.92	2.94	1.96	*	1.96	2.94	3.92	4.89
2	----	----	----	----	----	.80	.67	.57	.49
10	.55	.62	.69	.80	.95	.78	.64	.56	.43
11	.53	.56	.69	.77	----	----	----	----	----
21	.53	.61	.70	.82	----	----	----	----	----
22	.51	.59	.66	.77	----	----	.43	.37	.29
30	----	----	----	----	----	----	.79	.70	.63
Averages	.53	.60	.69	.79	.95	.79	.63	.55	.46

OMAHA, NEBR.

Date	Sun's zenith distance A M				*	P M			
	78.7°	75.7°	70.7°	60.0°		60.0°	70.7°	75.7°	78.7°
	Air mass								
	4.78	3.82	2.87	1.91	*	1.91	2.87	3.82	4.78
1	.66	.75	.87	1.03	----	----	----	----	----
2	.70	.78	.89	1.04	----	----	----	----	----
3	.70	----	.92	----	----	----	----	----	----
5	----	----	KS .85	1.09	----	.62	----	----	----
6	.70	.80	.92	1.10	----	----	----	----	----
7	----	----	----	----	----	1.00	H .79	----	----
12	----	----	.48	.66	----	----	----	----	----
13	----	----	----	----	----	.82	----	----	----
15	----	----	----	(1.11)	----	----	----	----	----
17	----	----	----	----	1.32	----	----	----	----
22	----	----	----	----	----	1.06	.88	.73	.63
23	----	----	----	----	----	.97	----	----	----
25	HM .26	HM .46	HI .64	----	----	----	----	----	----
26	----	----	.46	----	----	----	----	----	HI .33
27	----	.82	.96	1.10	----	----	----	----	----
29	HI .21	HI .28	HI .36	HI .57	----	----	----	----	----
30	HI .05	HI .09	HI .17	HI .26	----	----	----	----	----
Averages	.47	.57	.68	.88	1.32	.89	.84	.73	.48

TUCSON, ARIZ.

Date	Sun's zenith distance A M				*	P M			
	78.7°	75.7°	70.7°	60.0°		60.0°	70.7°	75.7°	78.7°
	Air mass								
	4.64	3.71	2.78	1.86	*	1.86	2.78	3.71	4.64
1	.79	.89	1.05	1.22	1.14	1.19	1.00	.87	.78
2	.76	.87	1.01	1.17	1.43	1.22	1.00	.86	.75
3	.76	.87	1.00	1.18	1.35	1.14	.94	.83	.74
4	.82	.95	1.08	1.23	1.40	1.18	1.03	.91	.82
5	.83	.93	1.06	1.22	1.44	1.28	1.11	1.02	.92
6	.78	.84	.92	1.12	----	----	----	----	----
7	----	----	----	----	1.29	1.06	.83	.73	----
8	.64	.80	.95	1.13	1.33	1.08	.89	.74	.60
9	.57	.66	.83	1.03	1.33	1.06	----	.80	.70
10	.62	.74	.86	1.05	1.36	1.11	.90	.76	.65
11	.72	.83	.99	1.16	1.39	1.18	1.01	.86	.78
12	.71	.82	.95	1.12	----	1.07	.92	.79	.66
13	.62	.74	.88	1.09	1.35	1.09	.91	.80	.70
14	.77	.87	1.01	1.15	1.40	1.24	1.10	.99	.88
15	.87	.98	1.12	1.27	1.48	1.18	1.00	.87	.77
16	.70	.80	.97	1.14	1.38	----	----	----	----
17	----	----	----	1.08	1.36	1.11	.94	.80	.69
18	----	.90	1.02	1.13	----	----	----	----	----
19	.74	.85	.97	1.18	1.39	----	----	----	.67
20	.73	.82	.97	1.15	1.43	1.11	.96	.81	.69
21	.76	.86	1.00	1.16	1.39	1.17	1.00	.87	.79
22	.82	.93	1.05	1.23	1.43	1.21	1.06	.92	.82
23	.79	.90	1.05	1.25	1.46	1.28	1.13	1.02	.92
24	.87	.98	1.09	1.25	1.43	1.29	1.10	.99	.89
25	.88	.99	1.12	1.29	1.50	1.29	1.14	1.01	.91
26	.86	.97	1.10	1.26	1.48	1.27	1.09	.98	.85
27	.82	.92	1.04	1.21	1.43	1.26	1.12	1.02	.93
28	.91	1.02	1.12	1.29	1.52	1.28	1.13	1.03	.91
29	.86	.97	1.12	1.29	1.48	1.30	1.14	1.02	.92
30	.80	.91	1.05	1.24	1.44	1.20	1.03	.87	.76
Averages	.77	.88	1.01	1.18	1.41	1.19	1.02	.89	.79

NET RADIATION

Net radiation in langleys per day [illegible] Alaska

Date.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Avg.
Langleys. . .	[illegible]	161	[illegible]	[illegible]	[illegible]	[illegible]	91	271	215	167	277	221	201	167	159	[illegible]	297	84	140	[illegible]	[illegible]	[illegible]	[illegible]	147	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]

SOLAR ULTRA-VIOLET RADIATION DATA

[illegible]

Date. . .	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Avg.
Langleys. . .																																

NO DATA RECEIVED

TOTAL OZONE DATA

[illegible] provisional ozone data are obtained from measurements made with a Dobson ozone spectrophotometer, and are applicable approximately to local apparent noon. The data are presented in the same [illegible] August 1962 WMO circular entitled "PUBLICATION OF DATA FOR METEOROLOGICAL RESEARCH, WORLD OZONE DATA"

[illegible]

Station	Day of month																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	[illegible]

NO DATA RECEIVED

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS LATE REPORTS

MARCH 1975

Basins and Streams	FLOOD EVENT PACIFIC SLOPE DRAINAGE	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
Southern California Coastal Streams	The following is a delayed report on severe flooding which occurred in March 1975 in the Eel River Basin. Minor flooding occurred along the Smith River. A moderate surface storm moved west across the northern Pacific and was centered in Gulf of Alaska with a closed low aloft following on March 17. A sharp, vigorous, surface wave formed at about the peak of the warm sector just west of the Northern California Coast during the morning of March 18. The beginning rain about mid-day on the 17th was 0.1 inch per hour or less with greatest amounts over the Smith River Basin. Rain in the amount of 0.2 inch per hour began to fall over the three river basins early on the 18th. By morning heavy rain in amounts of 0.3 to 0.5 inch per hour was falling over much of the North Coast. High totals for the storm reached 10 inches or more over each river basin. Most of this was run-off since soils were already saturated from previous rains. The Smith River crested 1.7 feet over flood stage at Crescent City and 0.8 feet over flood stage at Dr. Fine Bridge. Most of the damage occurred in Humboldt County in the Eel River Basin where the Van Duzen River crested 0.4 feet over flood stage at Bridgeville and the Eel River 1.9 feet over flood stage at Fernbridge. Of the total damage about $1.5 million was to state highways and county roads from slides and slipouts. Savings from timely warnings were estimated to be $3 million. More than 1,000 head of livestock and many families were evacuated. No losses of people or animals were reported. Redwood Creek and the Mad River both exceeded warning stage at Orick and Arcata, respectively.	0	1,840

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	PACIFIC SLOPE DRAINAGE		
Snake River Basin	Snowmelt flooding began in April on the Boise River and in May on the Portneuf and Henry's Fork of the Snake River. The Boise River, a regulated stream, was increased in flow by the combined decision of the Corps of Engineers, The Boise Board of Control and the Bureau of Reclamation. The snow survey on April 1st showed a snow pack of 128% above normal, indicating that additional storage was necessary for control of the expected runoff. The flow was increased beyond the flood stage of 7 feet on April 5th and continued above flood stage through April and May. The flow at Boise was held near 7.26 feet during that period, with variations between 7.10 feet and 7.34 feet. Flooding ended on June 2. About 2,000 acres of pasture and hayland were inundated. Some damage to farm buildings, roads and bridges also occurred with losses estimated at $30,000. The Portneuf River at Pocatello went above flood stage of 8 feet on May 16th and remained above flood stage through the end of May. The highest stage attained during May was 9.39 feet on May 20th. Damage was reported as minor from water overflowing onto pasture and farmland. Such flooding during the spring runoff is almost routine on this reach of the Portneuf. Two farmhouses near Inkim were evacuated for a few days but damage at those residences was minor. The Henry's Fork of the Snake River fluctuated around the flood stage of 9 feet during the latter part of May and most of June. The major period of flooding was May 31 to June 13 during which the high stage for the season of 10.21 feet was reached on the 5th. The period of high temperatures May 14-19 resulted in rapid snowmelt and flooding on a number of small streams from which no stage reports are received. The most serious threat posed by this flow was at Oakley Reservoir on Goose Creek (Cassia County). The reservoir has overflowed only once previously, and that was in 1921. The May 1975 episode resulted when inflow from snowmelt exceeded the outflow that could be diverted through canals, and the reservoir approached the spillway level. There is no longer a streambed downstream from the spillway, and extensive damage could have resulted from a significant overflow from the spillway. Cool weather beginning on May 20th reduced the inflow and the flood threat. Thus the rise of the lake level crested below the spillway level and there was no flooding or damage. Elsewhere, several creeks experienced flooding in Twin Falls County and Cassia County as the high temperatures affected the heavy snowpack. Most notable were Rock Creek above Kimberly and Dry	0	N.A.

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Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)

PACIFIC SLOPE DRAINAGE-Cont'd

Creek above Murtaugh. Along these streams there was flooding over roads, pastures, and hay fields. Although no publicly owned bridges were damaged, at least seven private roadway bridges on Rock Creek were washed out.

In Bonneville County, Willow Creek and Sand Creek went over their banks during the hot weather but damage was apparently very minor. Although there is considerable potential for damage along these creeks, this turned out to be a minor episode.

Beaver Creek in Dubois (Clark County) was reported by the local watermaster as having crested at about 4 a.m. on May 18th when it reached a gage height of 7.22 feet with an approximate flow of 900 cubic feet per second. Watermaster Don Shelton believes this may be a record as he has found no record of higher readings. The principal damage was erosion of highway and railroad embankments, and over two miles of fence along Interstate Highway 15 were washed out just south of Dubois.

Mud Lake posed a significant flood threat in Jefferson County, if the heat wave had persisted longer, but the cool weather resumed in time to end the threat. Flooding along several of these streams lasted until mid-June. Most notable of which was that along Rock and Dry Creeks.

STORM SUMMARY LATE REPORTS

DATE	TABLE	STATE	CORRECTION	
MAY 1974	STORM SUMMARY	MISSOURI	TORNADOES	Number - 6; Days - 4; Damage - 5
JUNE 1974	STORM SUMMARY	MISSOURI	TORNADOES	Number - 5; HAILSTORMS: Property -
JANUARY 1975	STORM SUMMARY	ALABAMA	TORNADOES	Number - 13; Injuries - 72
JANUARY 1975	STORM SUMMARY	ILLINOIS	TORNADOES	Number - 2
FEBRUARY 1975	STORM SUMMARY	CALIFORNIA	WINDSTORMS:	Property - ?; Crops - ?
FEBRUARY 1975	STORM SUMMARY	INDIANA	ALL OTHER:	Property - ^{0}6; Crops - C
MARCH 1975	STORM SUMMARY	CALIFORNIA	TORNADOES	[illegible]

FLOOD STAGE DATA - LATE REPORTS

RIVER AND STATION	FLOOD STAGE FT.	ABOVE FLOOD STAGES DATES FROM	TO	CREST STAGE FT.	DATE
Van Duzen:					
Bridgeville, CA	17	March 18	March 18	17.1	March 18
Eel:					
Fernbridge, CA	20	March 18	March 19	21.9	March 18
Smith:					
Crescent City, CA	35	March 18	March 18	36.7	March 18
Dr. Fine Bridge, CA	33	March 18	March 18	33.7	March 18
Henrys Fork:					
Rexburg, ID	9	May 20	May 21	9.29	May 20

CORRECTIONS

RIVER AND STATION	FLOOD STAGE FT.	ABOVE FLOOD STAGES DATES FROM	TO	CREST STAGE FT.	DATE
Catawba:					
Lookout Shoals Reservoir, NC	100	March 14	April 2	106.0	March 14
Meramec River:					
Pacific, MO	18	March 31	March 31	19.00	March [illegible]
Valley Park, MO	16	March 31	March 31	16.60	March 31
Ohio:					
McAlpine Dam, KY (upper)	23	March 30	April 3	24.4	April 1
White:					
Des Arc, AR	24	March [illegible]	April 23	31.6	April 3
Little Wabash:					
Carmi, IL	[illegible]	April 25	May 9	30.9	May 1
Ohio:					
Newburg, IN Dam 47	38	April 26	May 7	[illegible]	May 1
Mt. Vernon, IN	35	April 27	May 9	40.6	[illegible]
Uniontown, KY Dam 49	37	April 28	May 9	42.4	[illegible]
Shawneetown, IL	33	April 27	May 11	42.5	May 4
Fords Ferry, KY Dam 50	34	April 26	May 12	45.2	[illegible]

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REFERENCE NOTES

OBSERVED EXTREMES OF TEMPERATURE AND PRECIPITATION -- BY STATES   Dates in the table apply to the period 24 hours prior to time of observation. In some cases the actual occurrence is on the calendar date preceding that shown. (See individual Climatological Data for times of observations).

+	And also on an earlier date or dates
D	Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch of water equivalent to every 10 inches of snowfall.

CLIMATOLOGICAL DATA - METRIC UNITS: Data from airport unless otherwise specified.

Precipitation data in column headed "Greatest in 24 hours" are computed on a 24-hour basis without regard to calendar day - data may include precipitation with a measurable amount from the last day of the previous month or the first day of the following month.

Wind directions under resultant direction are in tens of degrees.

Value entered in column "Fastest Mile" is the highest observed 1-minute wind speed when the direction is in tens of degrees. These stations are not equipped with a recording anemometer from which "Fastest Mile data can be evaluated.

B	Number of days maximum 21.1°C. or above for Alaskan Stations.
Y	Peak Gust.
+	And also on an earlier date or dates.
U	Indicates Urban site.
R	Indicates Rural site.
Ø	Station pressures apply to elevations shown in the "Elevations" table of the annual issue of this publication.

Conversion formulae to English Units are as follows:

1 foot = 0.3048 meters
F. = $\frac{9}{5}$ x C + 32
1 inch = 25.4 millimeters
1 mile per hour = 0.447 meters per second

HEATING DEGREE DAYS: Data from airport unless otherwise specified.

U	Indicates Urban site.
R	Indicates Rural site.

COOLING DEGREE DAYS: Data from airport unless otherwise specified.

U	Indicates Urban site.
R	Indicates Rural site.

STORM SUMMARY:

°	Includes crop damage.
C	Crop damage.
*	No occurrence of storms or unusual weather phenomena reported.
@	Includes heavy sleet storm.
#	Freezing drizzle and freezing rain, commonly known as glaze.
Ø	For breakdown of "All Others," and for detailed listing of other storms, see the Environmental Data Service, NOAA, monthly publication STORM DATA.
‡	No Storm Data Report received for this State.
<>	Report Incomplete.
†	Storm damages are placed in categories varying from 1 to 9 as follows:

1	Less than $50
2	$50 to $500
3	$500 to $5,000
4	$5,000 to $50,000
5	$50,000 to $500,000
6	$500,000 to $5 Million
7	$5 Million to $50 Million
8	$50 Million to $500 Million
9	$500 Million to $5 Billion.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS:

1/	Flooding continued at the end of the month.
NA	Not available.

FLOOD STAGE DATA:

#	Highest Stage Observed
1/	Continued at end of month
___	Highest Stage of Record
E	Estimated
P	Provisional (Flood Stage)
!	Unknown

RAWINSONDE DATA (Average Monthly Values):

All observations scheduled at 1200, G.C.T. Pressures shown under station names are the average monthly station pressures for the month of record, corrected to the height of the floors of the instrument shelters used for rawinsonde purposes. "Number of observations" refers to those of dynamic height only. Although the number of temperature observations at any given pressure surface is usually the same as for height, it is possible for temperature to be missing for one or more pressure surfaces of some observations. Dew Point averages are limited to those observations with temperatures warmer than -40°C. Observations of wind speed and direction are sometimes lost due to limiting angles, i.e., elevation angles less than 6° above the horizon, or any obstruction above the horizon. The temperature and wind values are based on 15 or more observations at the surface or 5 observations at a standard pressure level for temperature and 10 for wind. Dew Point data are not published for standard pressure surfaces for which less than 5 observations are available. Dew Point data are computed and expressed on the basis of vapor pressure over water. Unless otherwise indicated, they are obtained from carbon hygristors. These average values for standard pressure surfaces were obtained by rawinsondes; dynamic height (geopotential) in units of .98 dynamic meter, temperature and dew point in degrees Celsius, and resultant winds in tens of degrees and meters per second.

*	Rawinsondes at this station were equipped with hypsometers to permit more accurate evaluations of pressure, and consequently height, at pressures lower than 50 mb. These rawinsondes were carried aloft by special high altitude balloons, in an effort to consistently reach higher altitudes.
+	Observations for these stations are scheduled at 0000 G.C.T.
†	Dew Point temperatures are based on a minimum of 5 observations. Therefore, due to the lesser number of Dew Point observations at the higher levels comparison with dry-bulb temperatures should be made with care. Dew Point temperatures replaced Relative Humidity January 1967.

SOLAR RADIATION INTENSITIES: Langley is the unit used to denote one gram calorie per square centimeter. An explanation of the formula used in computing the air mass values for each station appears in the February 1957 issue, Vol. 8, No. 2, page 63, of this publication.

()	Clouds Present	DM	Moderate Dust	HM	Moderate Haze	KS	Slight Smoke
*	Values corresponding to true solar noon	DS	Slight Dust	HS	Slight Haze	M	Moderate Haze-indeterminable
BD	Blowing Dust	F	Fog	I	Intense Haze-indeterminable	N	Sand
BN	Blowing Sand	GF	Ground Fog	K	Smoke	S	Slight Haze-indeterminable
D	Dust	H	Haze	KI	Intense Smoke		
DI	Intense Dust	HI	Intense Haze	KM	Moderate Smoke		

NET RADIATION: The measurement is made with a CSIRO FUNK net exchange radiometer over a plot of sod. The value represents the total incoming minus the total outgoing radiation of all wave lengths.

These data are of an experimental nature and are published as received from the Palmer Exp. Station. The instrument with which they were measured has not been checked by the NOAA, National Weather Service.

SOLAR ULTRA-VIOLET RADIATION DATA: These data are from an U-V Eppley total ultra violet sensor and Speedomax H (Leeds Northrup) Recorder. This instrument has not been checked by the NOAA, National Weather Service.

TOTAL OZONE DATA: The spectrophotometer measures the total amount of ozone in the atmosphere, i.e., the amount contained in a vertical column of air extending from ground level to the top of the atmosphere in the vicinity of the station. The amount of ozone in this column (coded $\Omega\ \Omega\ \Omega$) is expressed in terms of a thickness of a layer it would occupy at standard temperature and pressure, e.g., 350 milli-atmo-cm ozone implies an ozone layer 0.350 centimeter thick. The code $_{\lambda}$s designates the type of measurement made.

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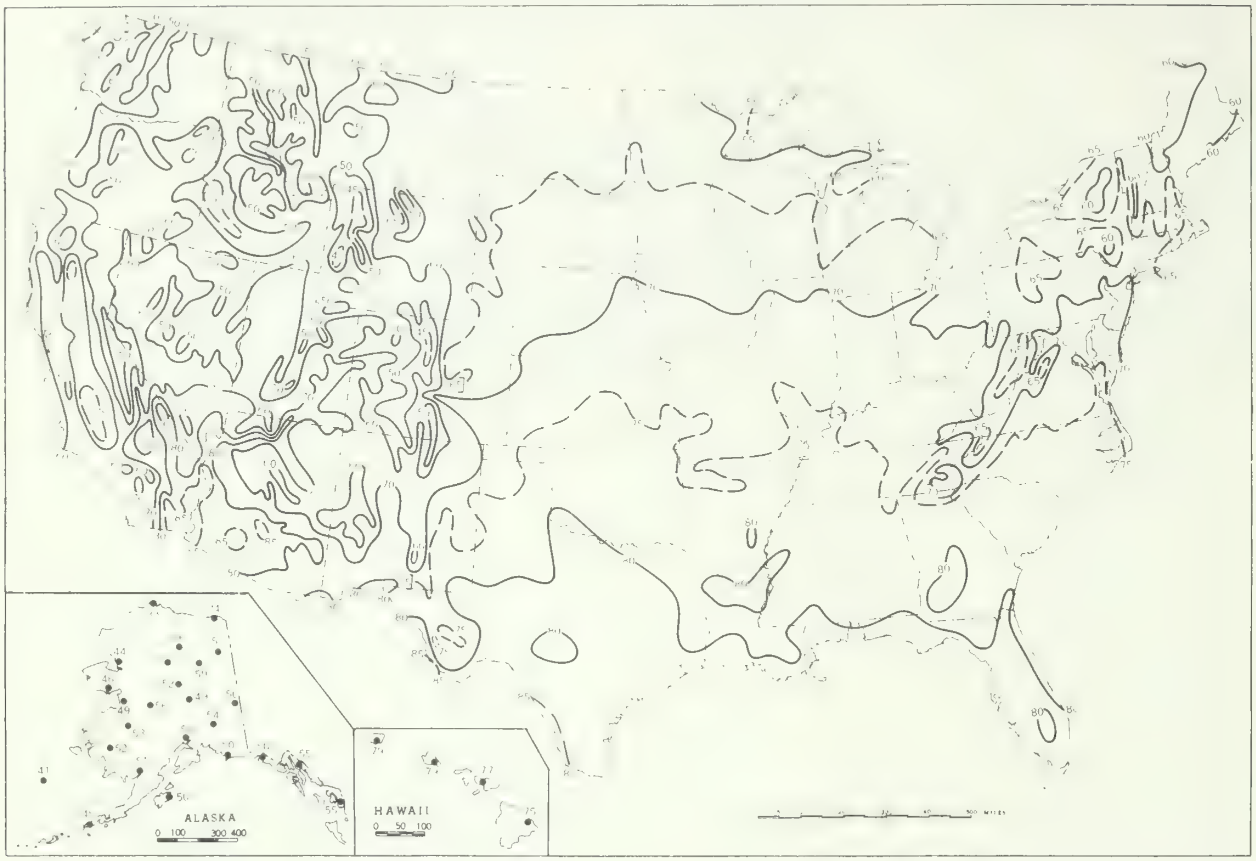
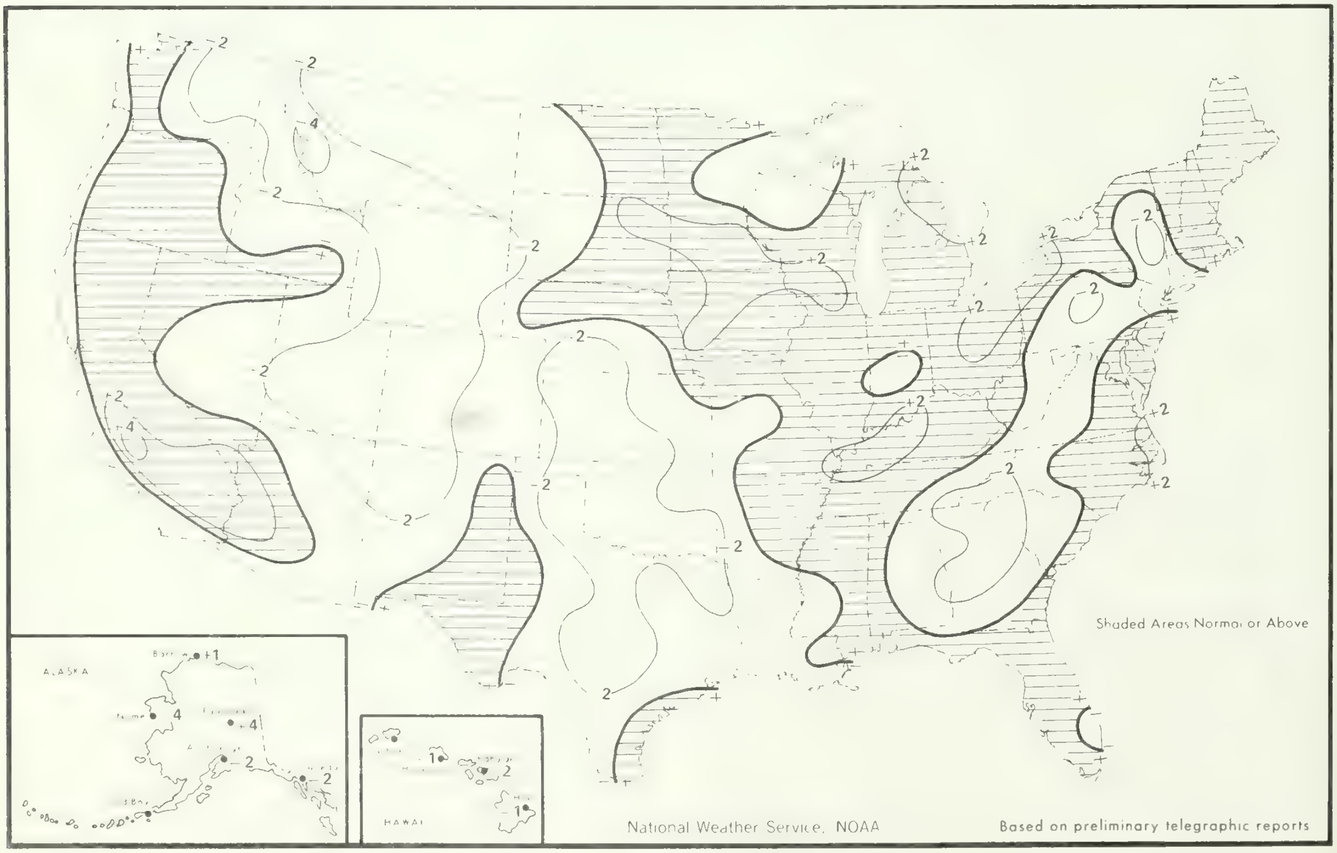
Chart 1. A. Normal Daily Average Temperature (°F. 1941-70), June.


ALASKA
0 100 300 400
HAWAII
0 50 100
500 MILES
60
65
70
75
80
85
44
49
52
56
55
41
77
75

B. Temperature Departure from 30 - Year Mean (°F 1941-70), June 1975

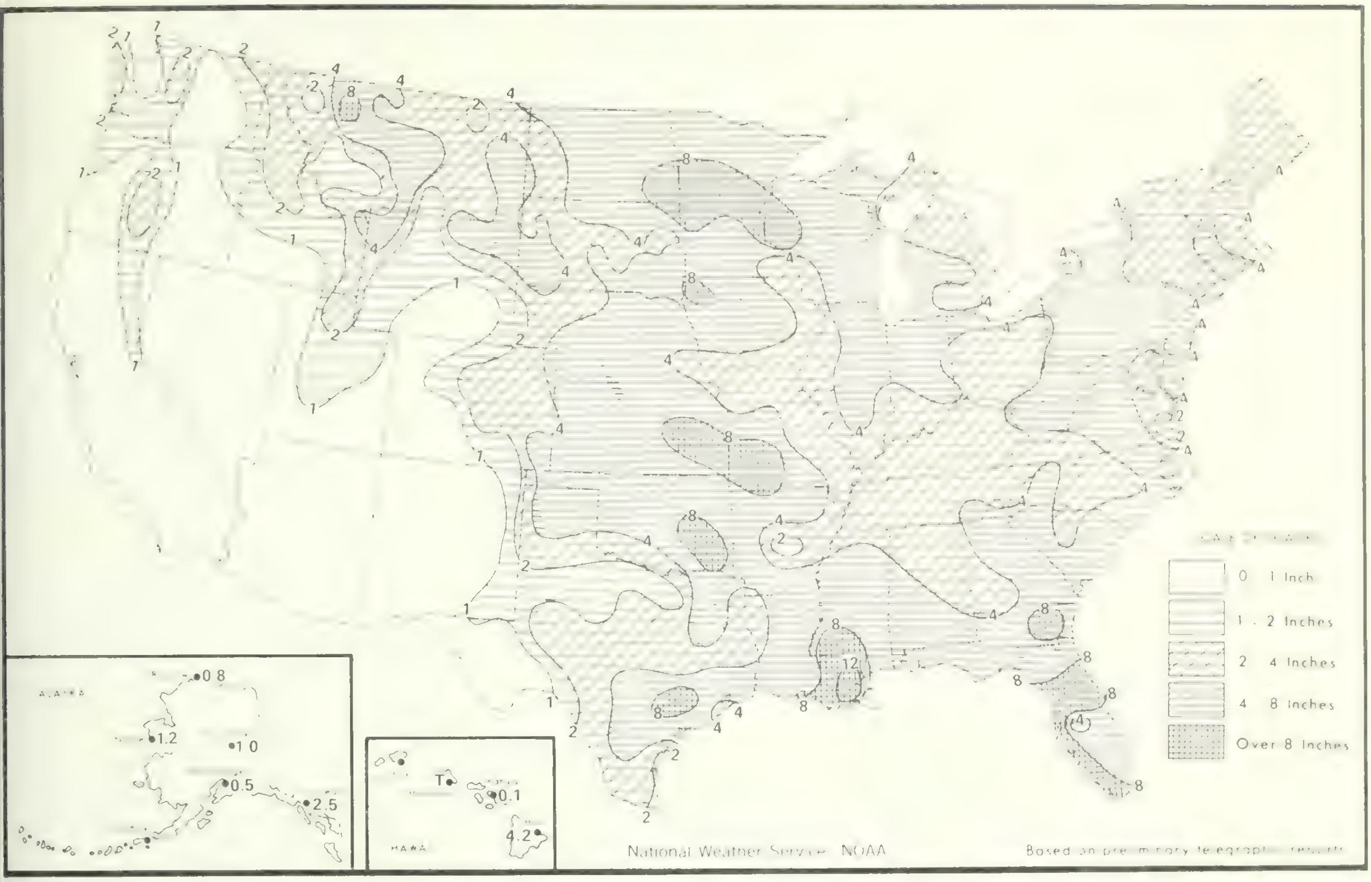

ALASKA
HAWAII
+1
4
+4
-2
-2
1
-2
1
-2
-4
+2
+4
-2
+2

Shaded Areas Normal or Above

National Weather Service, NOAA

Based on preliminary telegraphic reports

Chart II. A. Total Precipitation (Inches), June 1975


ALASKA
0.8
1.2
1.0
0.5
2.5
HAWAII
T
0.1
4.2
0 - 1 Inch
1 - 2 Inches
2 - 4 Inches
4 - 8 Inches
Over 8 Inches
National Weather Service, NOAA
Based on preliminary telegraphic reports

B. Percentage of Normal Precipitation, June 1975

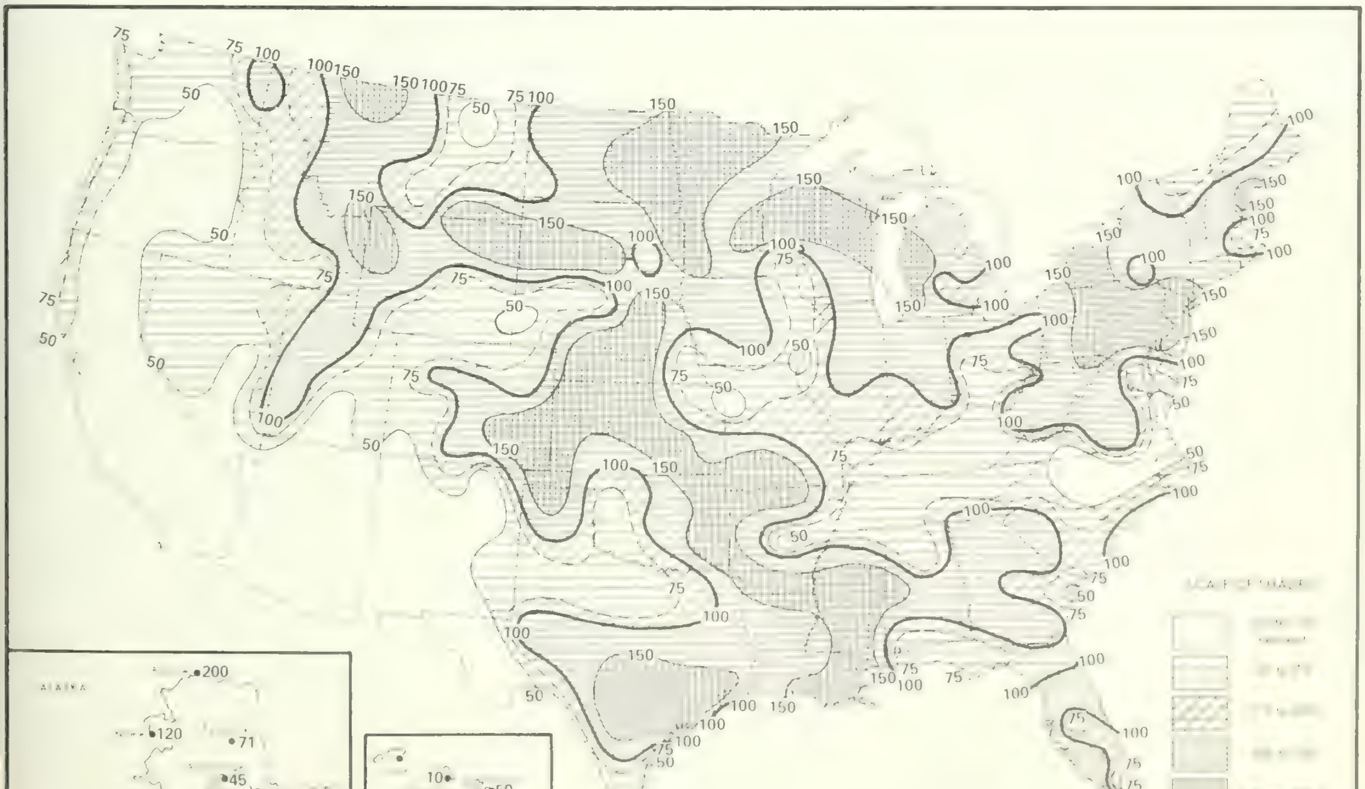

ALASKA
200
120
71
45
86
HAWAII
10
50
64

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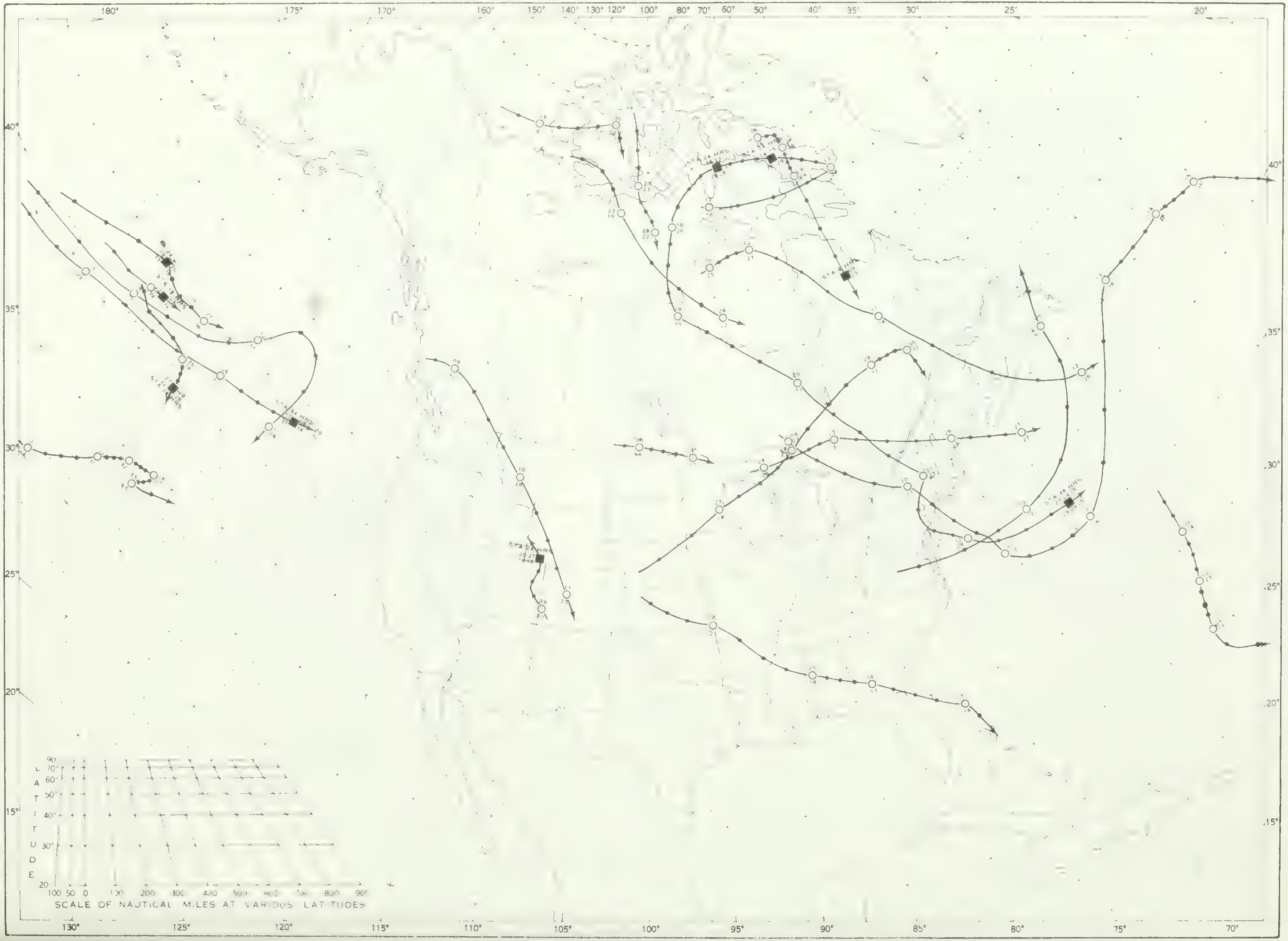
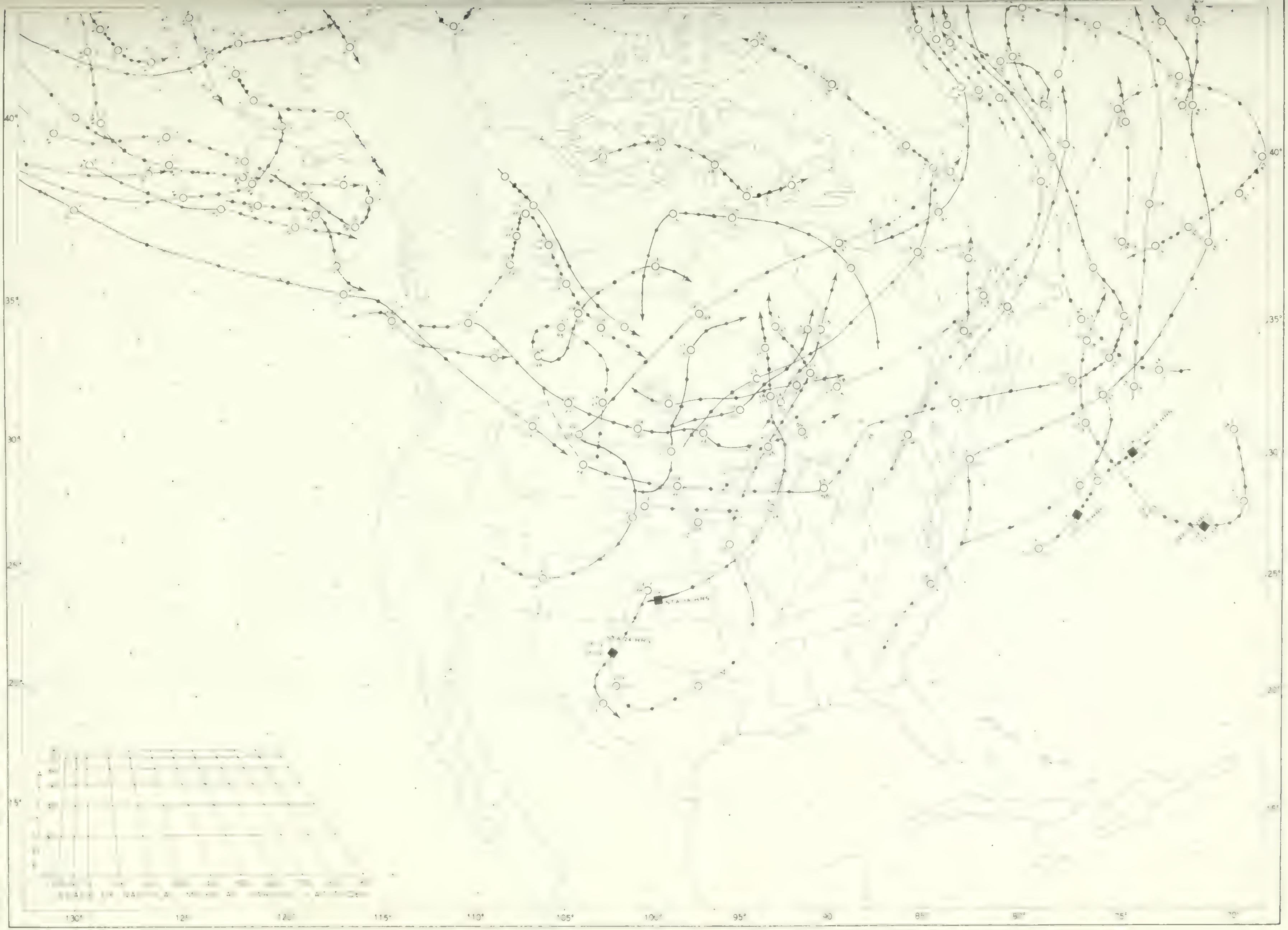
Chart III. Tracks of Centers of Anticyclones at Sea Level, June 1975


180°
175°
170°
160°
150°
140°
130°
120°
100°
80°
70°
60°
50°
40°
35°
30°
25°
20°
40°
35°
30°
25°
20°
15°
130°
125°
120°
115°
110°
105°
100°
95°
90°
85°
80°
75°
70°
LATITUDE
90°
70°
60°
50°
40°
30°
20
100 50 0 100 200 300 400 500 600 700 800 900
SCALE OF NAUTICAL MILES AT VARIOUS LATITUDES
STA 24 HRS
STA 6 HRS
STA 48 HRS
STA 54 HRS

Circle indicates position of center at 7:00 a.m. E.S.T. Figure above circle indicates date, figure below, pressure to nearest millibar.


40°
35°
30°
25°
20°
15°
130°
12
120°
115°
110°
105°
100°
95°
90
85°
80°
75°
70°
STA 24 HRS
STA 24 HRS

Circle indicates position of center at 7:00 a.m. E.S.T. Figure above circle indicates date, figure below, pressure to nearest millibar. Dots indicate intervening 6-hourly positions. Squares indicate position of stationary center for period shown. Dashed line in track indicates reformation at new position. Only those centers which could be identified for 24 hours or more are included.

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1776-1976

JULY 1975 VOLUME 26 NUMBER 7

CLIMATOLOGICAL DATA

NATIONAL SUMMARY

DEPARTMENT OF COMMERCE
UNITED STATES OF AMERICA

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Thomas D. Potter
DIRECTOR
NATIONAL CLIMATIC CENTER

noaa NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL DATA SERVICE / NATIONAL CLIMATIC CENTER ASHEVILLE, N.C.

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NOTE: Late reports and corrections will be carried in the June and December issues of this publication. An explanatory page "Description of Charts" will be carried in the January and July issues.

SUBSCRIPTION PRICE: $10.20 a year including annual summary; $9.10 additional for foreign mailing; 70¢ single copy; $1.80 annual summary. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, NC 28801. Attn: Publications.

CLIMATOLOGICAL DATA

NATIONAL SUMMARY

JULY 1975

GENERAL SUMMARY OF WEATHER CONDITIONS

Dr. Richard E. Felch, Climatologist

HIGHLIGHTS: Extreme dryness or wetness in July was the rule rather than the exception. The central and northern Great Plains and the western Corn Belt were unusually dry and warm. The southern Great Plains, Southeast, and Atlantic Coast States had well above normal percipitation and below normal temperatures.

Del Rio, Texas, had its wettest July on record with 8.26 inches of rainfall, 7.24 above normal. Glasgow, Montana, received 4.18 inches for its second wettest July on record. Des Moines, Iowa, with 0.04 inch, had its driest July, and Minneapolis-St. Paul, with 0.58 inch, the driest since 1937. Wichita, Kansas, broke last year's record low July rainfall of 0.09 inch, with only 0.05 inch this July.

PRECIPITATION: The month began with serious flooding in the Red River Valley of the North, and rains continued into early July. A flash flood roared through Las Vegas, Nevada, on the 3d, causing the death of two people and an estimated million dollars in property damage. Warm, muggy weather dominated most of the northern and central States.

Rain fell nearly everywhere in the United States in the second week of July, but heaviest amounts fell along the East Coast and in the Gulf Coast States. Unusual thunderstorm activity also occurred in the Pacific Northwest. Heavy storms developed in many of the Atlantic and Gulf Coast States on the 7th and 8th. Northeast Louisiana had a record rainfall of more than 10 inches within 12 hours. The storm system moved slowly and later in the week brought violent weather to the Atlantic Coast. Flash floods were reported from North Carolina to New England.

Heavy rain continued along the Atlantic Coast into the third week. Parts of central New Jersey received 4 to 5 inches in less than 6 hours. Record flooding occurred throughout the Trenton, New Jersey, area, where the Millstone River rose to a record 8 feet above flood stage.

Precipitation was focused mainly on the Southeast during the fourth week. Violent storms lashed the Central Plains and middle Mississippi Valley. Illinois suffered the greatest damage when 85 mph winds struck Peoria and a tornado at Canton took five lives.

At the end of the month, a tropical depression dumped heavy rains along the Gulf Coast, covering parts of Florida, Georgia, Alabama, Mississippi, and Louisiana. These areas received more than 12 inches over the entire month.

TEMPERATURE: The northern half of the Nation was generally warmer than normal in July, while the Southern States averaged below normal readings.

Average temperatures during the first week of July showed most of the Nation to be above normal. California, Texas, Oklahoma, Louisiana, and the East Coast from New England to Georgia were below normal.

Most of the Nation east of the Continental Divide cooled to well below normal temperatures during the second week. Record low temperatures were set on the 13th in many parts of the Midwest: Rochester, Minn., 43°; Peoria, Ill., 48°; and Waco, Tex., 63°. West of the Divide, however, Walla Walla, Wash., climbed to 114° on the 10th.

As the month closed, temperatures were above normal over most of the Country.

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TROPICAL STORM AMY

JUNE 27 - JULY 4, 1975

National Hurricane Center, NOAA
Miami, Florida

During the period June 24th-26th a weak surface trough of low pressure persisted over Florida and the adjacent Atlantic waters. A weak circulation formed off the Florida east coast just north of the Bahamas by the evening of the 26th. The tropical depression moved northward about 10 mph during the 27th with the lowest pressure around 1012 mb and the highest winds of 25 to 30 mph. The development of a well organized warm anticyclone in the upper atmosphere during the early stages of this system contributed to its rather rapid strengthening into a tropical storm on the 28th and 29th. The storm skirted the North Carolina coast, and the area of maximum winds and heaviest rainfall remained over the open waters of the Atlantic.

From the 29th to July 3d Amy moved on a meandering east-northeast course with an average forward speed of less than 10 mph. On both July 1st and 2d, minor troughs in the westerlies caused Amy to slow and turn to a more northerly course with brief threats to the Canadian Maritime Provinces. On the 3d, a major trough developing over southeastern Canada produced a rapid northeasterly acceleration with the center of Amy passing some 150 miles southeast of Cape Race, Newfoundland, on the 4th. The high winds and rains associated with the storm did not affect Newfoundland. The system gradually lost all its tropical characteristics over the cold waters of the far north Atlantic after passing Newfoundland.

Damage produced by Tropical Storm Amy was light and confined to erosion along the outer banks of North Carolina. Tides of 2 to 4 feet above normal caused by prolonged northeasterly winds, combined with large swells associated with the circulation of Amy, damaged many of the beaches. Some state highways near the beach were temporarily under water. Rainfall of 2 to 4 inches occurred along the immediate coast of North Carolina but was much lighter inland.

During most of its life Amy had many of the characteristics of a subtropical storm. The region of maximum winds was well removed from the center and midtropospheric temperatures were not as warm as might be expected in a tropical storm. The minimum pressure was 981 mb, but the maximum sustained winds of 70 mph were less than might be expected with this pressure. However, when the low attained winds of gale force, data indicated it was more tropical than subtropical, so it was named Amy. Because of the close proximity of the coast the name was retained throughout to avoid confusion in public releases.

TROPICAL STORM AMY

JUNE 27 - JULY 4, 1975

Preliminary Track

DATE	TIME	LATITUDE	LONGITUDE	MAXIMUM WIND (Kts.)	MINIMUM PRESSURE (Mbs.)	STAGE
6/27	0000Z	27.5N	79.0W	25	1013	Tropical Depression
	0600Z	28.5	79.0			
	1200Z	29.5	79.0			
	1800Z	30.5	79.0			
6/28	0000Z	31.5	78.8		1012	
	0600Z	32.4	78.7			
	1200Z	33.3	78.0		1011	
	1800Z	34.0	77.0	30	1006	
6/29	0000Z	34.4	75.8	35	1004	Tropical Storm
	0600Z	34.0	74.8	40	1002	
	1200Z	33.8	73.8	45	1000	
	1800Z	33.8	72.8	50	998	
6/30	0000Z	34.3	71.6			
	0600Z	35.6	70.8	55		
	1200Z	35.9	70.5	60	987	
	1800Z	36.2	70.2			
7/1	0000Z	36.2	69.8		984	
	0600Z	36.2	69.4			
	1200Z	36.2	68.3			
	1800Z	36.7	67.2			
7/2	0000Z	37.4	66.7			
	0600Z	37.3	65.9			
	1200Z	37.3	65.1		981	
	1800Z	37.3	64.1		986	
7/3	0000Z	37.7	62.8	55		
	0600Z	38.2	61.2			
	1200Z	39.3	59.6			
	1800Z	40.5	58.0	50		
7/4	0000Z	42.5	54.8			
	0600Z	44.5	51.6			
	1200Z	47.0	48.0	45	995	Extratropical

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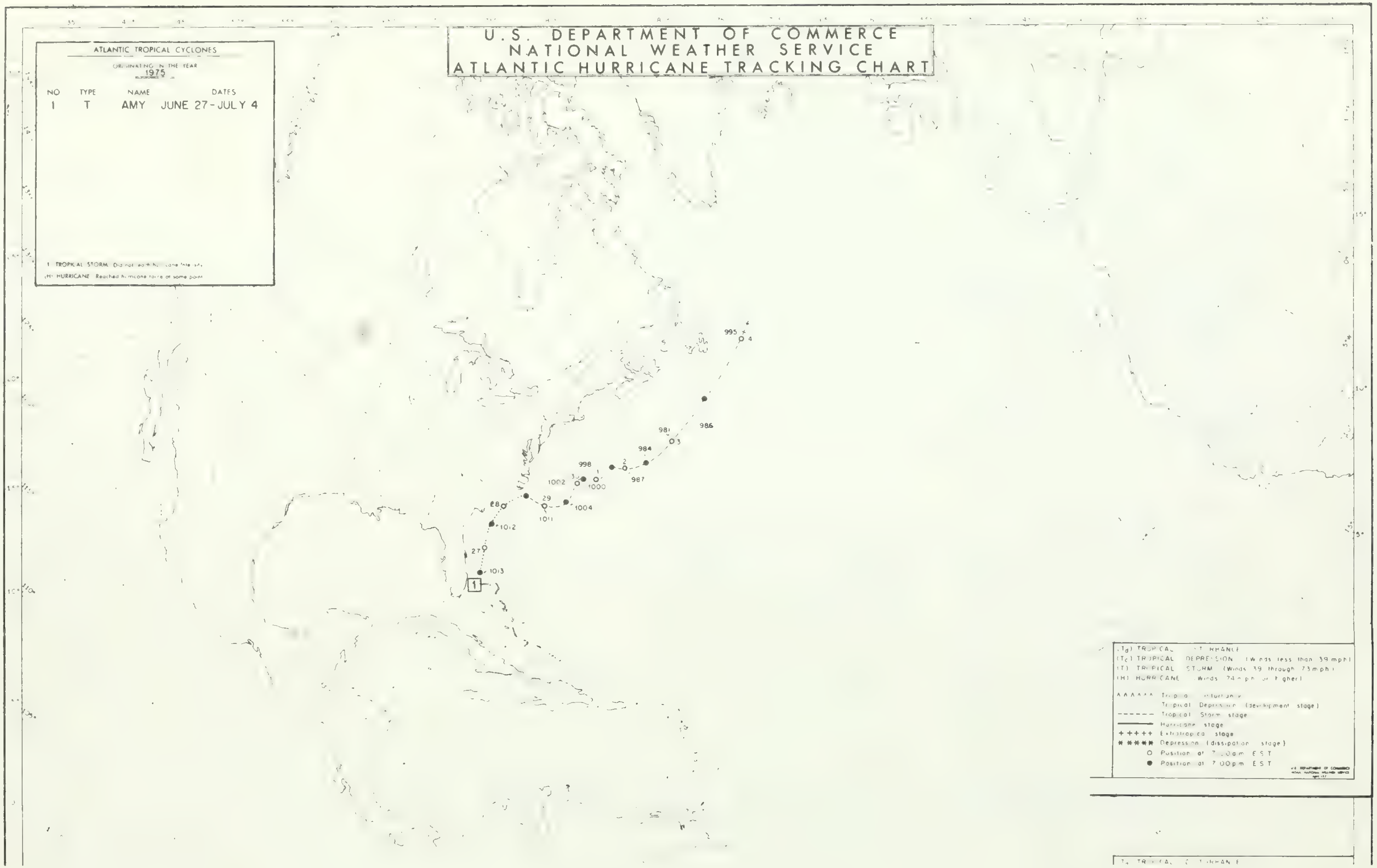
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NATIONAL WEATHER SERVICE
ATLANTIC HURRICANE TRACKING CHART
ATLANTIC TROPICAL CYCLONES
ORIGINATING IN THE YEAR
1975
NO TYPE NAME DATES
1 T AMY JUNE 27-JULY 4
T TROPICAL STORM Did not reach hurricane intensity
(H) HURRICANE Reached hurricane force at some point
1
1013
27
1012
28
29
1011
1004
1002
3
1000
998
1
2
987
984
981
3
986
995
4
(Td) TROPICAL DISTURBANCE
(Tc) TROPICAL DEPRESSION (Winds less than 39 mph)
(T) TROPICAL STORM (Winds 39 through 73 mph)
(H) HURRICANE (Winds 74 mph or higher)
Tropical Disturbance
Tropical Depression (development stage)
Tropical Storm stage
Hurricane stage
Extratropical stage
Depression (dissipation stage)
Position at 7:00am EST
Position at 7:00pm EST
U.S. DEPARTMENT OF COMMERCE

HURRICANE BLANCHE

JULY 24 - JULY 28, 1975

National Hurricane Center, NOAA
Miami, Florida

Blanche, the season's first hurricane, had its beginnings as a tropical wave which moved off the coast of Africa on July 14. As the wave entered the Caribbean region, it appeared to elongate and then divide into two systems. One part tracked northwestward as a cloud mass from which a depression formed about 500 miles north of the eastern tip of the Dominican Republic on the 24th. The southern part continued westward across the Caribbean Sea and the Yucatan Peninsula, and formed a tropical depression in the southwestern Gulf of Mexico on the 25th.

The first depression gradually turned toward the north and north northeast during the next two days. In this interval reconnaissance and satellite data indicated that it hovered on the brink of becoming a tropical storm. The threshold was probably crossed during the early hours of the 26th, when a reconnaissance aircraft found a central pressure of 1004 mbs. This point marks the beginning of Tropical Storm Blanche on the official track. Meanwhile, the second depression intensified as it crossed the southwestern Gulf of Mexico, and was on the verge of becoming a tropical storm when it passed over Tampico, Mexico, later the same day.

As Blanche turned toward the northeast, its potential for further intensification was dependent upon the impact of an approaching cold front moving off the North Carolina coast. However, the front rapidly weakened before cooler air could penetrate the storm's inner core, and Blanche steadily deepened, partly in response to the baroclinic effect of an upper trough to the west. Blanche reached hurricane strength as the central pressure fell to 987 mbs during the early hours of the 27th. At this time the hurricane was at the same location crossed by Tropical Storm Amy two weeks earlier.

Whereas Amy followed a meandering track toward the northeast, Blanche moved north northeastward toward Nova Scotia. As a deepening upper trough moved through eastern Canada, Blanche accelerated to a forward speed of about 30 mph at the time of landfall at Cape Sable, Nova Scotia, about daybreak on the 28th.

During the twelve hours prior to landfall the hurricane reached its maximum intensity. Highest sustained winds were about 85 mph and the lowest pressure was 980 mbs. In view of the strengthening and acceleration, gale warnings were issued for the eastern portion of the Maine coast, from Rockland to Eastport at midnight on the 27th. Meanwhile, the Canadian Weather Service issued a hurricane warning for Nova Scotia.

The lowest pressures at land stations were 987.0 mbs at Western Head, near Cape Sable, at 1330 GMT following a 3-hour pressure fall of 16 mbs; and 988.7 mbs at nearby Shelburne at 1200 GMT after a 3-hour fall of 18 mbs. Some maximum wind measurements on the 28th are: Halifax, sustained winds of 52 mph with gusts to 80 mph at 1422 GMT; Western Head, sustained winds of 54 mph at 1200 GMT; and Gridstone Island, sustained winds of 70 mph at 1800 GMT.

There was no loss of life due to Blanche. Considerable minor damage occurred, mostly in eastern Nova Scotia, consisting mainly of small boats washed ashore, and trees blown down. Rainfall was not excessive. The greatest accumulation was 3.1 inches in Chatham, New Brunswick. The rains proved beneficial, bringing an end to a prolonged dry period over the region.

HURRICANE BLANCHE

JULY 1975

Preliminary Track

DATE	HOUR GMT	LATITUDE	LONGITUDE	LOWEST PRESSURE (Mbs.)	MAXIMUM WIND (Kts.)	STAGE
7/24	00	26.0	68.4	1014	20	Tropical Depression
	06	26.0	69.5	1014	20	
	12	26.1	70.5	1014	25	
	18	26.5	71.5	1013	30	
7/25	00	27.2	72.5	1012	30	
	06	28.0	73.6	1010	30	
	12	28.9	74.3	1007	30	
	18	29.9	74.9	1006	30	
7/26	00	31.0	75.0	1005	30	
	06	32.2	74.6	1004	35	Tropical Storm
	12	33.4	73.5	1003	35	
	18	34.2	72.2	998	50	
7/27	00	35.0	71.0	992	60	
	06	35.9	70.0	987	65	Hurricane
	12	36.9	69.0	984	70	
	18	37.9	68.0	981	75	
7/28	00	39.3	67.2	980	75	
	06	41.2	66.4	980	70	
	12	44.0	65.2	988	60	Extratropical
	18	47.2	62.4	992	60	

OBSERVED EXTREMES OF TEMPERATURE AND PRECIPITATION -- BY STATES

STATE	Temperature						Precipitation			
	Monthly extremes						Monthly extremes			
	Station	Highest	Date	Station	Lowest	Date	Station	Greatest	Station	Least
		°F			°F			In		In.
Alabama	Calera 2 SW	99	1	[illegible]	50	12	Bay Minette	20.15	[illegible]	[illegible]
Alaska	2 Stations	[illegible]	[illegible]	3 Stations	25	29	Annex Creek	14.08	Happy Valley Camp	20
Arizona	Willow Beach	119	[illegible]	[illegible]	[illegible]	1	[illegible]	6.89	2 Stations	00
Arkansas	[illegible]	102	21	3 Stations	[illegible]	14	Morobay Lock No. 8	9.30	Abbott	69
California	Death Valley	122	[illegible]	[illegible]	17	2	[illegible]	1.88	155 Stations	00
Colorado	[illegible]	104	19+	Climax	20	13	Wolf Creek Pass 1 E	[illegible]	Rifle	[illegible]
Connecticut	[illegible]	95	31	[illegible]	[illegible]	[illegible]	Woodbury	10.97	Cockaponset Ranger Sta.	2.63
Delaware	2 Stations	93	30+	[illegible]	48	2	Dover	14.24	Wilmington Porter Resvr.	5.25
Florida	La Belle	[illegible]	9	[illegible]	[illegible]	[illegible]	[illegible]	26.44	Alexander Springs 3 SE	3.33
Georgia	Metter	[illegible]	27	[illegible]	[illegible]	[illegible]	[illegible]	14.44	Resaca	[illegible]
Hawaii	[illegible]	91	19	2 Stations	[illegible]	[illegible]	Mount Waialeale, Kauai	25.85	10 Stations	.00
Idaho	[illegible]	109	28	3 Stations	[illegible]	[illegible]	[illegible]	3.36	[illegible]	.04
Illinois	[illegible]	100	23	[illegible]	[illegible]	11	[illegible]	8.65	[illegible]	.39
Indiana	Plymouth Power Substa.	[illegible]	31	[illegible]	42	[illegible]	[illegible]	6.12	[illegible]	23
Iowa	3 Stations	99	31+	[illegible]	39	[illegible]	[illegible]	3.66	Des Moines WSO Airport	.01
Kansas	[illegible]	105	21	Russell Springs	[illegible]	12	[illegible]	5.50	9 Stations	.00
Kentucky	2 Stations	98	31+	2 Stations	[illegible]	[illegible]	[illegible]	11.35	[illegible]	.60
Louisiana	2 Stations	[illegible]	[illegible]	Converse	59	13	Morgan City	17.54	Mooringsport 1 N	2.32
Maine	Portland WSO Airport	95	31	2 Stations	40	[illegible]	[illegible]	6.67	[illegible]	1.53
Maryland	Cumberland 2	95	24	2 Stations	46	[illegible]	[illegible]	12.40	[illegible]	1.83
Massachusetts	Chester 2	97	31	Chester 2	[illegible]	1	Amherst	10.56	Nantucket FAA Airport	1.08
Michigan	Port Huron Wastewtr. Pl.	102	31	[illegible]	33	11	Northport 2	8.62	Eaton Rapids	[illegible]
Minnesota	[illegible]	[illegible]	29	Tower 3 S	[illegible]	12	Bemidji Airport	7.90	[illegible]	.12
Mississippi	6 Stations	99	23+	[illegible]	54	[illegible]	Biloxi City	14.82	Scott	.91
Missouri	Appleton City	103	28	Elsberry 1 S	40	[illegible]	[illegible]	7.06	2 Stations	.06
Montana	[illegible]	108	28	[illegible]	[illegible]	[illegible]	[illegible]	5.23	[illegible]	.39
Nebraska	Stapleton 5 SSE	107	27	[illegible]	35	12	Wymore	5.95	Gavins Point Dam	.19
Nevada	3 Stations	114	26+	Reese River R S	25	[illegible]	Ruby Lake	1.97	5 Stations	.00
New Hampshire	Keene	95	31	Mount Washington	33	26	Mount Sunapee	9.29	[illegible]	2.91
New Jersey	2 Stations	96	31	2 Stations	[illegible]	[illegible]	Blackwells Mills	19.65	[illegible]	5.19
New Mexico	Lordsburg 4 SE	103	10	Red River	33	27	Pearl	12.31	Pedernal 4 E	48
New York	2 Stations	[illegible]	31	2 Stations	38	27	[illegible]	13.63	[illegible]	83
North Carolina	[illegible]	97	22	[illegible]	43	2	Oxford 2 SW	16.44	Coweeta Exp. Station	1.50
North Dakota	[illegible]	110	29	[illegible]	36	10	Hansboro 3 W	6.55	Fort Yates	23
Ohio	[illegible]	98	31	2 Stations	[illegible]	12+	Xenia 5 SSE	7.96	Mansfield WSO Airport	.94
Oklahoma	Grand River Dam	[illegible]	6	Zoe 1 E	46	13	Union City 4 ESE	11.03	Blackwell 2 E	21
Oregon	Spray	112	27	[illegible]	[illegible]	1	Alkali Lake	3.00	Gold Beach Ranger Sta.	00
Pennsylvania	Palmerton	100	31	[illegible]	35	26	West Grove 1 SE	14.20	Saxton	62
Puerto Rico	[illegible]	97	7	Adjuntas Substation	54	[illegible]	La Muda - Caguas	13.79	Ponce City	.30
Rhode Island	Providence WSO Airport	92	31	Kingston	45	2	North Foster 1 E	3.73	Block Island WSO Airport	1.34
South Carolina	Florence FAA Airport	[illegible]	1	5 Stations	55	[illegible]	[illegible]	17.25	2 Stations	2.85
South Dakota	5 Stations	110	29+	[illegible]	36	12	Wewela	5.32	3 Stations	T
Tennessee	Greenville Exp. Sta.	99	29+	Oneida	47	12	[illegible]	13.50	North Springs	.72
Texas	2 Stations	105	31+	Mount Locke	51	22+	[illegible]	10.22	Gatesville	.21
Utah	Saint George	109	24	Scofield	[illegible]	1	Blowhard Mtn. Radar	6.59	[illegible]	[illegible]
Vermont	Cornwall	95	31	3 Stations	39	1	Searsburg Station	8.02	Cornwall	2.34
Virginia	2 Stations	96	[illegible]	5 Stations	45	26+	Emporia 1 WNW	14.50	Pilot 1 ENE	1.72
Virgin Islands	Frenchmans Bay	95	4	2 Stations	68	16+	Christiansted Fort	3.37	2 Stations	.90
Washington	Walla Walla FAA Airport	114	10	[illegible]	33	30+	Colville Airport	2.56	2 Stations	.00
West Virginia	11 Stations	95	[illegible]	Canaan Valley	[illegible]	26	[illegible]	8.13	Morgantown L and D	.99
Wisconsin	Breed	101	31	4 Stations	[illegible]	14+	Madison WSO Airport	6.05	El Dorado	.53
Wyoming	Colony	107	29+	Lamar Ranger Station	25	31	Cody 21 SW	3.97	Worland	.01

+ Extreme occurred at station with incomplete data which may have been exceeded.

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CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure: Station	Pressure: Sea level	Temperature: Average maximum	Temperature: Average minimum	Temperature: Average	Temperature: Departure from normal	Temperature: Highest	Date	Temperature: Lowest	Date	No. of days: Max 32.2 °C or above	No. of days: Min. 0 C or lower	Average dew point	Average relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	No. of days: 25 mm. or more	No. of days: With thunderstorms	Snow, Ice pellets: Total	Snow, Ice pellets: Maximum depth on ground	Wind: Resultant speed	Wind: Resultant direction	Fastest mile (1.6 kilometers): Speed	Fastest mile: Direction	Fastest mile: Date	No. of days (sunrise to sunset): Clear, 0-3	No. of days: Partly cloudy, 4-7	No. of days: Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m s		m s							%
ALABAMA																																
BIRMINGHAM	189	993.9	1016.0	30.3	20.9	25.6	-1.0	32.8	24+	14.4	12	8	0	20.6	78	186	54	59	13	11	0	0	0.4	12	13.0	SW	7	0	14	17	7.8	51
HUNTSVILLE	190	993.6	1016.3	30.1	19.9	25.0	-1.4	32.8	28+	14.4	13+	4	0	20.0	77	211	87	114	13	11	0	0	0.5	14	11.6	28	6+	2	17	12	6.6	
MOBILE	64	1007.8	1015.6	32.2	23.1	27.7	0.1	35.0	5	21.7	20+	23	0	21.7	76	300	75	136	16	14	0	0	0.7	23	9.4	30	9	0	14	17	7.7	
MONTGOMERY	59	1008.8	1016.2	31.8	22.9	27.4	0.2	34.4	5	21.1	12+	18	0	22.6	81	193	63	61	18	12	0	0	0.6	17	12.1	[illegible]	20	1	9	21	7.8	63
ALASKA												8																				
ANCHORAGE	35	1006.8	1013.7	18.3	11.2	14.8	0.4	25.6	9	7.8	23	6	0	9.4	71	34	-19	10	10	0	0	0	1.3	21	8.9	16	11+	4	7	20	7.5	56
ANNETTE	34	1013.2	1017.3	16.6	10.2	13.4	-0.9	29.4	7	8.3	22+	3	0	9.4	83	128	-12	37	18	1	0	0	1.7	16	9.4	17	23	2	5	24	8.6	
BARROW	9			5.0	0.9	3.0	-0.7	17.8	7	-1.7	24	0	16			25	3	13	15	0	8	0			10.7	13	8	5	5	21	7.7	
BARTER ISLAND	12	1011.2	1013.1	6.7	0.9	3.8	-0.7	20.0	11	-2.2	23+	0	15	2.8	92	12	-16	9	7	0	97	25	1.5	4	11.2	7	25+	1	5	25	8.7	
BETHEL	38	1006.8	1012.4	18.1	9.2	13.7	1.1	25.6	24	3.9	5	8	0	10.0	81	34	-16	9	14	1	0	0	2.3	21	12.5	18	9	2	4	25	8.5	
BETTLES	196	986.5		23.2	10.5	16.9	2.5	30.6	13	0.0	28	23	1			27	-19	16	6		0	0	1.2	27	10.3	14	15+	6	12	13	6.0	
BIG DELTA	388			20.9	10.7	15.8	0.6	31.1	10	3.3	29	16	0			119	56	52	14		0	0										
COLD BAY	29	1009.5	1012.1	12.9	7.7	10.3	0.2	17.8	24	5.0	1	0	0	7.8	88	65	8	28	15	0	0	0	4.1	17	19.7	17	9	0	0	31	9.6	
FAIRBANKS	133	993.9	1010.5	25.4	15.0	20.2	4.3	34.4	11+	7.2	29+	27	0	10.6	56	46	-2	25	9	1	0	0	1.2	23	9.8	8	17+	3	11	17	7.0	
GULKANA	479			19.9	9.0	14.5	0.7	31.1	10	3.9	23	12	0			84	38	17	16		0	0										
HOMER	19	1010.8	1013.4	15.9	7.3	11.6		22.2	9	2.8	2	1	0	8.9	83	25	-18	7	8	0	0	0	1.5	24	10.3	10	3	2	16	13	6.9	
JUNEAU	4	1014.9	1015.6	17.2	9.4	13.3	0.1	32.2	7	6.7	6	4	0	10.0	83	126	7	39	22	1	0	0	1.8	10	11.6	13	25+	4	0	27	8.7	23
KING SALMON	15	1010.5	1012.6	17.9	7.3	12.6	0.1	27.8	9	1.7	5	6	0	7.8	75	19	-37	12	8	0	0	0	1.7	19	13.0	17	10+	1	9	21	8.0	
KODIAK	4	1009.5	1013.6	14.0	7.2	10.6	-1.7	24.4	9	3.9	1	3	0	7.8	87	98	8	38	17	0	0	0	1.9	4	14.3	4	23	3	8	20	7.7	
KOTZEBUE	3	1010.8	1011.4	13.3	7.0	10.2	-1.4	23.3	6	1.1	1	1	0	7.8	86	37	-3	23	6	0	0	0	4.2	28	14.3	29	26	5	12	14	6.7	
MC GRATH	105	999.3	1011.7	20.9	9.9	15.4	0.9	31.7	11	4.4	28	15	0	9.4	73	136	78	65	17	2	0	0	1.1	20	7.6	31	26+	2	5	24	8.0	
NOME	4	1010.5	1011.4	15.4	6.1	10.8	0.7	24.4	14	1.1	28	5	0	7.2	79	56	-6	42	7	0	0	0	1.2	24	13.0	13	9	9	9	13	5.8	52
ST. PAUL ISLAND	7	1010.2		8.4	4.6	6.5	-1.1	12.8	25+	1.7	19	0	0			30	-26	12	14	0	0	0	1.1	13	11.6	31	29+					
SUMMIT	731			16.2	6.6	11.4	0.3	26.1	9	1.7	23	6	0			104	27	19	19	1	T	0			11.2	24	10	4	5	22	8.0	
TALKEETNA	105			19.3	9.5	14.4	0.0	29.4	10	5.6	23	10	0			101	12	19	14	1	0	0			7.6	14	27					
UNALAKLEET	5			17.5	10.1	13.8		27.2	7	2.2	28	4	0			54		20	13		0	0			11.2	25	7					
VALDEZ	7			16.8	9.1	12.9	1.1	26.7	8	6.1	5	4	0			109	0		17		0				8.9	22	11					
YAKUTAT	9			15.0	8.7	11.9	0.0	23.3	9	3.9	6	2	0			267	52	48	23	0	0	0			9.4	15	19	2	3	26	8.6	
ARIZONA																																
FLAGSTAFF	2135	791.7	1015.7	27.3	10.3	18.8	0.2	31.1	24+	6.7	26+	0	0	10.0	64	57	-6	22	3	16	0	0	0.9	24	9.4	NE	26	8	17	6	5.3	
PHOENIX	340	970.9	1008.7	41.2	28.0	34.6	1.7	45.0	11+	22.2	1	31	0	14.4	33	10	-9	9	2	5	0	0	0.3	22	20.1Y	NE	26	18	8	5	3.4	87
TUCSON	788	924.1	1009.6	35.5	22.4	29.0	-1.2	39.4	1	19.4	1	29	0	15.6	48	60	0	39	10	15	0	0	1.0	19	21.5	NE	24	8	17	6	5.6	84
WINSLOW	1492	852.7	1012.6	33.9	17.1	25.5	-0.2	38.3	1	12.8	1	25	0	10.6	46	32	2	17	8	15	0	0	1.1	21	16.5	7	25	9	14	8	5.1	
YUMA	59	1001.4	1008.3	40.6	27.1	33.8	-0.4	45.0	11	23.3	1	31	0	15.1	37	3	-2	3	1	1	0	0	3.5	17	21.0	NE	25	22	7	2	2.1	89
ARKANSAS																																
FORT SMITH	134	999.0	1015.2	32.1	20.7	26.4	-1.5	36.1	21	12.8	13	17	0	21.0	70	63	-20	29	8	5	0	0	0.4	8	14.3	NE	21	13	10	8	5.1	76
LITTLE ROCK	78	1006.1	1015.3	32.3	21.2	26.8	-0.7	36.7	6	13.9	14	18	0	20.6	74	101	15	30	13	15	0	0	0.3	16	14.3	NW	24	12	11	8	5.3	85
CALIFORNIA																																
BAKERSFIELD	145	993.9	1011.2	36.4	21.7	29.1	0.2	43.3	26	13.3	2	28	0	11.7	37	0	-1	0	0	0	0	0	2.0	32	7.6	30	27+	28	3	0	.8	
BISHOP	1252	872.0		36.3	14.4	25.4	0.6	42.2	26	7.2	2+	30	0			T	-4	T	0		0	0			20.6Y		3	25	5	1	1.7	
BLUE CANYON	1609	841.2		24.8	14.0	19.4	-0.6	32.8	26	7.2	1	2	0			6	3	6	1		0	0			8.5	2	29	27	1	3	1.5	
EUREKA U	12			16.2	11.4	13.8	0.3	18.9	20	8.9	1	0	0			3	-1	2	4		0	0			11.6	[illegible]	30	9	7	15	6.3	52
FRESNO	100	1000.0	1011.6	34.7	16.6	25.6	-1.4	41.1	26	11.7	3+	25	0	12.2	45	T	0	T	0	0	0	0	1.9	29	10.3	NW	15	29	1	1	.8	95
LONG BEACH	8	1011.9	1013.3	27.4	17.9	22.7	0.3	34.4	11	14.4	2+	2	0	16.1	72	T	0	T	0	0	0	0	1.5	22	7.2	20	24+	19	9	3	3.4	
LOS ANGELES	30	1009.5	1013.2	23.8	17.2	20.5	0.2	27.2	11	14.4	3	0	0	15.0	75	T	0	T	0	0	0	0	2.5	25	10.7Y	W	1	13	13	5	4.1	
LOS ANGELES J	82			27.6	17.4	22.5	-0.4	32.2	10	15.6	4+	1	0			0	0	0	0	0	0	0			6.3	SW	13+	19	11	1	3.3	91
MT SHASTA R	1080	892.7	1014.7	28.2	10.4	19.4	-0.5	36.7	26	2.8	2	7	0			3	-5	3	1		0	0										
OAKLAND	2	1014.6	1014.8	20.3	13.3	16.8	-0.5	31.1	25	11.1	5	0	0	12.2	80	3	3	3	1	0	0	0	3.4	27	9.8	32	13	15	1	5	3.7	
RED BLUFF	104	999.3	1011.6	35.4	17.9	26.7	-1.3	45.6	25	11.7	2	24	0			8	7	8	2	1	0	0	1.5	18	9.8	SE	29	27	2	2	1.2	96
SACRAMENTO	5	1011.2	1012.0	34.4	15.8	25.2	1.2	44.4	26+	12.2	2+	23	0	12.2	53	1	1	1	1	0	0	0	3.3	20	8.5	SW	14	26	3	2	1.4	95
SANDBERG R	1377	862.9		28.6	15.8	22.2	-1.1	35.6	26	10.6	2	5	0	5.0	37	0	-1	0	0		0	0	1.3	28	14.3	34	8					
SAN DIEGO	4	1012.5	1013.5	23.6	17.9	20.8	-0.1	27.8	11	15.0	1	0	0	15.6	74	T	0	T	0	1	0	0	2.0	27	8.0	SE	26	11	11	9	5.5	64
SAN FRANCISCO	2	1013.9	1014.6	21.3	11.8	16.6	-0.4	31.1	25	10.0	13	0	0	10.0	73	3	3	3	1	0	0	0	4.6	29	13.0	30	1	18	9	4	3.1	
SAN FRANCISCO	16			18.1	11.8	14.9	0.2	27.2	25	10.0	10	0	0			5	5	5	1			0										
SANTA MARIA	72			21.6	11.2	16.4	-0.3	23.9	27+	6.7	5	0	0			T	-1	T	0		0	0						18	12	1	3.7	
STOCKTON	7	1011.5	1012.5	33.0	15.6	24.3	-0.5	42.8	26	11.1	3+	20	0	12.8	54	1	0	1	1	0	0	0	3.6	29	10.3	27	2	26	3	2	1.3	
COLORADO																																
ALAMOSA	2297	776.8		27.4	8.9	18.2	-0.2	30.0	22+	5.0	26	0	0			13	-17	6	8		0	0						9	15	7	5.0	

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation ground	Pressure: Station	Pressure: Sea level	Temperature: Average maximum	Temperature: Average minimum	Temperature: Average	Temperature: Departure from normal	Temperature: Highest	Date	Temperature: Lowest	Date	No of days: Max 32.2 °C or above	No of days: Min. 0 °C or lower	Average dew point	Average relative hum dity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	No of days: 25 mm or more	No of days: With thunderstorms	Snow, Ice pellets: Total	Snow, Ice pellets: Maximum depth on ground	Wind: Resultant speed	Wind: Resultant direction	Fastest mile (1.6 kilometers): Speed	Fastest mile: Direction	Fastest mile: Date	No of days (sunrise to sunset): Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10	Sky cover tenths sunrise to sunset	Possible sunshine
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
COLORADO																																
COLORADO SPRINGS	1873	815.4	1014.7	29.4	13.9	21.7	0.2	32.8	1	10.0	27	3	0	9.4	51	67	-1	25	10	16	0	0	1.1	6	16.5	[illegible]	5	12	16	3	4.4	
DENVER	1610	834.5	1013.4	31.7	14.6	22.6	-0.2	35.0	1	12.2	13+	11	0	8.3	44	71	25	20	14	14	0	0	1.8	15	19.2	NE	5	10	20	1	4.1	73
GRAND JUNCTION	1474	853.0	1011.4	33.7	17.7	25.7	-0.2	37.2	1	15.0	17+	25	0	8.3	36	38	24	25	5	10	0	0	1.3	12	15.2	[illegible]	20	11	16	4	4.3	81
PUEBLO	1428	857.1	1012.4	33.3	16.8	24.9	0.2	37.2	19	11.7	27	23	0	12.8	53	54	[illegible]	22	10	9	0	0	1.0	9	17.0	[illegible]	23	17	12	2	3.8	83
CONNECTICUT																																
BRIDGEPORT	2	[illegible]	[illegible]	27.6	19.4	23.6	0.4	32.8	31	13.3	2	1	0	18.9	79	165	77	51	11	4	0	0	2.1	23	9.0	26	20	6	10	15	6.3	
HARTFORD	52	[illegible]	1015.1	30.6	18.3	24.5	1.9	35.0	31	10.0	1	9	0	17.8	71	159	69	72	11	8	0	0	2.0	[illegible]	12.5	[illegible]	13	5	12	14	6.4	61
DELAWARE																																
WILMINGTON	23	1012.9	[illegible]	29.1	19.4	24.3	-0.1	32.8	3	12.8	1	2	0	17.8	69	140	31	69	13	11	0	0	1.3	22	12.5	34	3	4	9	18	5.8	
DIST. OF COLUMBIA																																
WASHINGTON DULLES	88	1004.7	1015.2	29.2	17.8	23.5	-0.5	32.2	24	9.4	2	1	0	19.4	81	159	54	52	10	5	0	0	0.8	19	9.8	31	10	10	11	10	5.6	
WASHINGTON NATIONAL	3	1013.9	1015.4	30.7	21.9	26.3	1.3	33.9	3	16.1	2	12	0	18.9	66	182	77	106	11	[illegible]	0	0	0.9	26	15.6	[illegible]	9	5	11	15	6.0	56
FLORIDA																																
APALACHICOLA	6	1015.9	1015.9	29.9	22.6	26.3	-1.2	32.8	5	20.6	30+	2	0	22.8	81	454	252	171	20	19	0	0	0.6	[illegible]	14.8	[illegible]	6	4	11	16	7.1	51
DAYTONA BEACH	9	1014.3	1017.5	31.3	22.5	26.9	-0.3	33.9	21	18.9	4	12	0	21.7	78	175	5	57	22	20	0	0	1.5	15	13.4	[illegible]	9	3	9	19	7.4	
FORT MYERS	4	1014.9		32.3	23.2	27.8	-0.3	33.9	23+	21.7	26+	20	0	22.4	79	275	46	94	19	22	0	0	1.1	13	[illegible]	10	16	3	20	8	6.7	
JACKSONVILLE	9	1014.6	1017.5	[illegible]	22.4	26.7	-0.6	33.9	22+	18.9	5+	10	0	21.7	79	162	-15	43	19	18	0	0	1.2	19	13.4	[illegible]	9	3	8	20	[illegible]	41
KEY WEST	1	1016.3	[illegible]	31.5	25.3	28.7	-0.5	32.2	29+	21.7	18	7	0	22.8	70	104	1	27	12	20	0	0	[illegible]	14	12.5	SE	31+	1	17	13	6.9	64
LAKELAND	65			31.5	22.2	26.8	-0.7	33.9	25	20.6	13+	14	0			157	-49	45	20		0	0						1	19	11	6.4	[illegible]
MIAMI	2	1017.6	1017.8	30.3	24.2	27.3	-0.7	32.2	29+	21.7	1	3	0	22.8	79	127	-49	51	16	16	0	0	1.9	11	15.6	[illegible]	4	1	16	14	7.2	
ORLANDO MC COY AFB	29	1013.9	1017.8	32.3	21.6	26.9	-0.5	33.9	29+	18.3	4	22	0	21.7	80	238	25	69	19	23	0	0	1.2	15	12.1	[illegible]	29	2	11	18	7.3	
PENSACOLA	34	1011.5	1015.9	31.8	23.8	27.8	0.2	34.4	7	21.7	15+	19	0	22.2	76	407	221	131	13	17	0	0	[illegible]	23	15.5	[illegible]	21	1	16	14	[illegible]	
TALLAHASSEE	17	1014.2	1015.6	[illegible]	21.7	26.3	-0.9	34.4	5	16.7	3	15	0	22.8	86	445	214	132	22	15	0	0	[illegible]	15	12.1	35	7	3	11	17	7.5	
TAMPA	6	1016.9	1017.3	32.7	24.2	28.4	0.7	35.0	10	21.7	4+	26	0	22.8	75	169	-45	44	17	22	0	0	[illegible]	19	8.4	28	12+	1	13	17	7.6	72
WEST PALM BEACH	6	1016.9	1017.7	30.8	22.3	26.6	-1.2	33.3	27	20.0	6	5	0	22.2	81	144	-22	37	17	15	0	0	1.9	13	[illegible]	24	12	1	14	16	7.1	
GEORGIA																																
ATHENS	244	987.8	1016.1	30.5	21.4	26.0	-0.2	33.9	9	19.4	12	6	0	21.7	82	164	34	52	15	9	0	0	[illegible]	[illegible]	8.9	[illegible]	25	5	5	21	7.8	
ATLANTA	308	[illegible]	1016.2	29.2	20.2	24.7	-0.9	31.1	5	17.2	13+	0	0	20.6	83	214	92	52	18	11	0	0	[illegible]	19	12.1	[illegible]	14+	2	6	23	7.9	[illegible]
AUGUSTA	41	1011.2	1016.3	30.1	20.4	25.3	-1.6	33.3	23+	17.8	6+	6	0	19.4	77	135	6	42	15	12	0	0	1.1	18	15.6	[illegible]	6	2	10	19	7.5	
COLUMBUS	117	1002.4		[illegible]	21.6	26.1	-0.9	32.8	5+	19.4	13	7	0	21.1	80	220	54	[illegible]	17	16	0	0	[illegible]	12	13.0	35	5	2	[illegible]	22	7.9	
MACON	108	1004.1	1015.8	[illegible]	20.8	25.7	-1.8	34.4	4	18.9	6	8	0	20.6	80	148	34	32	16	13	0	0	[illegible]	17	11.6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8.2	[illegible]
ROME	194			31.1	20.2	25.6	-0.3	33.9	27	14.4	14	8	0			76	-44	23	[illegible]		0	0										
SAVANNAH	14	1015.6	1017.3	30.4	[illegible]	25.8	-1.5	33.9	4	17.2	2	7	0	22.2	86	293	93	[illegible]	21	19		0	[illegible]	14	[illegible]	NE	24	4	3	24	[illegible]	[illegible]
HAWAII																																
HILO	8	1017.3	1018.3	27.7	19.8	23.8	-0.3	28.9	23+	17.8	10	0	0	18.9	76	97	-145	13	29	0	0	0	[illegible]	6	7.6	E	20+	3	11	17	7.1	[illegible]
HONOLULU	2	1017.3	1017.7	29.8	22.4	26.1	-0.6	30.6	30+	20.6	11+	0	0	17.8	63	[illegible]	[illegible]	5	7	0	0	0	[illegible]	[illegible]	[illegible]	NE	4	3	20	[illegible]	[illegible]	[illegible]
KAHULUI	18	[illegible]	[illegible]	28.8	[illegible]	24.6	-1.1	[illegible]	30+	15.6	2	0	0			[illegible]	-4	4	5	0	0	0	[illegible]	5	[illegible]	NE	25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
LIHUE	31	[illegible]	1019.3	[illegible]	[illegible]	25.4	-0.4	28.9	[illegible]	21.7	1	0	0	19.4	71	24	-24	9	16	0	0	0	4.6	5	[illegible]	E	25+	3	21	7	5.9	[illegible]
IDAHO																																
BOISE	865	913.3	[illegible]	34.6	16.8	25.7	2.1	42.2	27	6.7	31	22	0	10.0	42	21	17	11	6	7	0	0	[illegible]	[illegible]	18.8	[illegible]	29	17	12	2	3.1	[illegible]
LEWISTON	431			33.1	17.8	25.4	2.4	41.1	[illegible]	11.1	1	19	0			17	4	[illegible]	4		0	0			[illegible]		28	15	10	6	[illegible]	
POCATELLO	1358	863.2	[illegible]	32.2	[illegible]	23.2	1.3	37.2	27+	6.7	2	22	0	8.9	44	41	32	18	7	8	0	0	[illegible]	23	15.3	SW	13	[illegible]	[illegible]	5	3.5	[illegible]
ILLINOIS																																
CAIRO	94			31.9	21.9	26.9	[illegible]	36.1	4	17.2	13	18	0			121	39	57	12		0	0			18.0	NE	5					[illegible]
CHICAGO O'HARE	[illegible]	[illegible]	[illegible]	29.6	18.7	24.2	[illegible]	34.4	31	11.7	13	10	0	16.1	63	56	-32	16	8	8	0	0	[illegible]	[illegible]	[illegible]	[illegible]	23	10	12	9	6.8	
CHICAGO MIDWAY	188	993.2	[illegible]	29.9	19.1	24.5	[illegible]	33.9	31	11.1	13	12	0	16.7	63	39	-65	15	7	7	0	0	[illegible]	23	8.5	[illegible]	24	12	11	8	4.6	[illegible]
MOLINE	179	993.9	[illegible]	30.4	17.3	23.9	[illegible]	[illegible]	[illegible]	8.9	14	13	0	17.2	68	69	-47	42	6	6	0	0	[illegible]	[illegible]	13.4	[illegible]	23	16	10	5	3.9	[illegible]
PEORIA	199	[illegible]	1015.5	29.5	16.9	23.2	-0.7	33.3	19	8.9	13	7	0	17.2	71	108	[illegible]	84	7	8	0	0	[illegible]	[illegible]	22.4	[illegible]	23	[illegible]	15	4	4.6	[illegible]
ROCKFORD	221	988.5	[illegible]	29.2	16.4	22.8	[illegible]	34.4	31	8.9	11	5	0	15.6	65	33	-75	9	7	6	0	0	[illegible]	[illegible]	[illegible]	[illegible]	23	15	9	7	4.3	
SPRINGFIELD	179	[illegible]	1015.4	29.7	17.7	23.7	-0.6	33.3	30+	8.9	13	8	0	18.3	73	69	-28	26	9	9	0	0	[illegible]	[illegible]	15.2	[illegible]	5	10	13	8	5.3	[illegible]
INDIANA																																
EVANSVILLE	[illegible]	1002.0	1015.8	31.7	[illegible]	25.4	[illegible]	35.0	17+	11.1	14	19	0	18.3	67	80	[illegible]	52	6	7	0	0	[illegible]	25	15.2	[illegible]	5	9	16	6	5.1	[illegible]
FORT WAYNE	241	[illegible]	1015.7	29.5	15.9	[illegible]	[illegible]	33.9	31	9.4	14	6	0	15.0	65	20	-79	14	4	3	0	0	1.4	25	12.5	[illegible]	12	12	14	5	4.5	69

Clemson University Library

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure: Station	Pressure: Sea level	Temperature: Average maximum	Temperature: Average minimum	Temperature: Average	Temperature: Departure from normal	Temperature: Highest	Temperature: Date	Temperature: Lowest	Temperature: Date	Temperature: No. of days: Max 32.2 °C or above	Temperature: No. of days: Min 0 °C or lower	Average dew point	Average relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	Precipitation: No. of days: 25 mm or more	Precipitation: No. of days: With thunderstorms	Snow, Ice pellets: Total	Snow, Ice pellets: Maximum depth on ground	Wind: Resultant speed	Wind: Resultant direction	Wind: Fastest mile (1.6 kilometers): Speed	Wind: Fastest mile: Direction	Wind: Fastest mile: Date	No. of days (sunrise to sunset): Clear, 0-3	No. of days: Partly cloudy, 4-7	No. of days: Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
INDIANA																																
INDIANAPOLIS	241	987.1	1015.9	28.9	17.2	23.1	[illegible]	32.8	[illegible]	8.9	14	2	0	18.3	78	119	24	51	7	9	0	0	[illegible]	26	11.6	[illegible]	27	12	12	7	4.7	70
SOUTH BEND	234	987.5	[illegible]	28.1	16.7	22.1	[illegible]	33.3	31	9.4	11	2	0	16.7	73	64	-26	31	5	5	0	0	1.3	27	9.8	[illegible]	19	10	13	6	5.0	
IOWA																																
BURLINGTON	211			30.2	18.0	24.1	0.0	33.9	12+	9.4	14	11	0	18.3	71	45	-51	26	6	3	0	0	[illegible]	25	13.0	[illegible]	11	11	17	3	4.0	
DES MOINES	284	981.0	1015.2	31.3	19.7	25.5	1.6	35.6	18	10.6	13	15	0	16.7	60	[illegible]	-82	[illegible]	3	3	0	0	[illegible]	21	12.1	SW	16	16	11	2	3.1	87
DUBUQUE	322	977.0		28.2	16.2	22.2	0.2	32.8	31+	8.3	14+	5	0			29	-87	21	5		0	0										
SIOUX CITY	334	975.6	1014.5	31.2	18.7	24.7	0.6	36.7	5	10.0	13	14	0	17.2	65	41	-43	30	2	3	0	0	1.4	17	16.8	[illegible]	19	19	11	1	2.7	84
WATERLOO	265	984.1	1015.2	29.9	16.4	23.3	0.7	34.4	30+	6.1	13	14	0	16.1	65	27	-94	[illegible]	3	4	0	0	1.0	24	10.3	20	20+	17	11	3	3.5	
KANSAS																																
CONCORDIA	448	962.8	1014.2	33.1	19.4	26.3	0.8	37.8	27	11.1	13	21	0	15.6	56	42	-42	37	2	5	0	0	2.3	16	16.1	SE	23	20	7	4	3.1	95
DODGE CITY	787	925.5	1014.0	32.4	18.9	25.7	-0.5	36.1	22+	12.8	12	19	0	15.0	55	55	-22	4	4	5	0	0	3.3	16	19.2	SE	30	15	13	3	4.1	89
GOODLAND	1114	889.6	1013.6	31.9	15.[illegible]	23.6	-0.8	35.6	19+	9.4	13	19	0	12.8	57	62	-7	36	10	10	0	0	2.2	16	17.9	34	10	13	14	4	4.0	
TOPEKA	267	984.1	1015.1	32.3	18.0	25.2	-0.5	36.7	29+	7.8	13	19	0	17.8	66	17	[illegible]	12	2	3	0	0	[illegible]	17	13.4	NE	20	12	13	6	4.6	74
WICHITA	403	968.2	1014.7	33.1	19.3	26.2	-0.8	37.8	22	10.6	13	22	0	16.7	58	1	-109	[illegible]	1	4	0	0	2.1	17	13.4	SW	17+	16	11	4	4.0	80
KENTUCKY																																
COVINGTON	265	985.1	1016.1	30.4	16.9	23.7	-0.6	33.3	31+	8.9	14	10	0	17.2	72	41	-64	[illegible]	10	6	0	0	[illegible]	22	11.2	27	19	13	11	7	4.9	
LEXINGTON	294	981.4	1016.2	30.7	18.6	24.7	0.1	33.9	23+	11.7	14	9	0	16.7	66	142	20	37	11	10	0	0	[illegible]	19	14.3	13	31	6	16	9	5.7	
LOUISVILLE	145	997.6	[illegible]	31.0	19.7	25.4	0.4	34.4	30	11.7	14	14	0	18.3	69	49	-47	13	10	8	0	0	[illegible]	[illegible]	9.4	NW	5	4	18	9	6.2	69
LOUISIANA																																
ALEXANDRIA	28	1011.2	1015.5	33.4	21.9	27.7	0.6	36.7	26	19.4	12	25	0	22.8	81	142	14	41	13	12	0	0	[illegible]	23	10.3	[illegible]	27	3	19	9	6.2	
BATON ROUGE	20	1013.2	1015.9	32.2	22.6	27.4	-0.3	34.4	22+	20.6	12	21	0	21.7	77	236	71	46	16	15	0	0	[illegible]	26	11.2	26	9	1	14	16	7.5	
LAKE CHARLES	3	1014.6	1015.6	31.8	23.0	27.4	-0.6	33.9	27+	20.6	1	19	0	23.3	84	177	[illegible]	58	14	18	0	0	[illegible]	22	12.5	35	9	4	11	16	6.9	
NEW ORLEANS	1	1014.6	1015.5	31.1	22.4	26.8	-0.9	33.3	29+	20.0	15	12	0	23.3	85	212	41	62	17	16	0	0	[illegible]	25	13.9	15	6	1	11	19	7.6	47
SHREVEPORT	77	1006.1	1015.2	32.8	21.5	27.2	-1.3	35.6	[illegible]	17.8	13	21	0	21.7	75	88	14	32	9	10	0	0	[illegible]	23	13.0	35	9	6	13	10	5.8	78
MAINE																																
CARIBOU	190	982.5		26.0	14.7	20.3	2.1	31.1	19+	7.2	27	0	0			109	8	28	15		0	0						4	8	19	7.5	
PORTLAND	13	1012.2	1014.6	26.6	15.7	21.2	1.2	35.0	31	7.8	2	2	0	17.2	81	52	-14	22	10	6	0	0	1.9	21	11.2	SW	14	7	10	14	6.3	62
MARYLAND																																
BALTIMORE	45	1010.8	1016.4	29.6	19.4	24.5	-0.3	32.8	24+	13.9	1	7	0	19.4	76	182	78	88	12	7	0	0	1.1	23	13.0	N	3	11	7	13	5.7	64
MASSACHUSETTS																																
BLUE HILL OBS R	192			27.7	17.8	22.8	1.1	32.8	31	11.7	1	1	0			90	[illegible]	36	7		0	0			18.3	S	14					64
BOSTON	5	1014.6	1015.4	29.2	19.4	24.4	1.4	35.0	31	13.3	1	7	0	17.2	68	60	[illegible]	25	6	2	0	0	2.6	22	13.9	SW	13	10	10	11	5.9	78
WORCESTER	301	979.3		26.9	17.3	22.1	0.9	31.1	31	11.7	1	0	0			100	5	30	12	6	0	0	2.2	25	7.6	25	25+	6	12	13	6.3	
MICHIGAN																																
ALPENA	210	986.8	1013.8	27.6	13.2	20.4	1.8	36.1	31	5.6	26	3	0	13.3	65	182	119	66	12	13	0	0	1.7	24	13.0	N	19	10	15	6	4.6	72
DETROIT	189			29.9	19.3	24.6	1.7	35.6	31	13.3	26	8	0	15.6	59					7			1.8	24	9.4	23	27+					
DETROIT METRO	193	991.2	1014.8	28.7	15.9	22.3	-0.1	34.4	31	11.1	11	2	0	15.6	67	50	-28	36	7	7	0	0	1.8	24	11.6	SW	18	16	13	2	3.8	83
FLINT	235	987.1	1014.4	27.5	15.3	21.4	0.4	33.3	31	8.9	11	1	0	15.6	71	49	-27	14	9	7	0	0	1.9	24	11.6	23	18	12	15	4	4.5	
GRAND RAPIDS	239	986.1	1014.8	28.2	14.7	21.4	-0.5	33.9	31	7.8	11	4	0	16.1	72	59	-20	18	12	8	0	0	1.9	24	17.4	S	12	10	13	8	5.1	65
HOUGHTON LAKE	350	973.2	1014.6	26.4	13.6	20.1	1.1	33.3	31	5.6	26	1	0	14.4	71	126	48	54	11	9	0	0	1.7	26	9.4	27	20	11	16	4	4.6	
LANSING	256	983.7	1014.7	28.7	14.2	21.4	-0.2	35.0	31	7.2	26+	4	0	16.1	73	63	-5	29	9	8	0	0	1.7	23	11.6	SW	18	11	14	6	4.8	67
MARQUETTE C	206			26.1	16.4	21.3	2.2	35.6	29	8.9	13	7	0			27	-51	20	8		0	0			11.6	SW	29+	15	7	9	4.5	81
MUSKEGON	191	992.2	1014.9	27.4	16.0	21.7	0.6	33.9	31	7.8	11	1	0	15.6	71	53	-11	27	10	7	0	0	2.1	23	10.3	21	19	14	13	4	4.1	
SAULT STE MARIE	220	980.8	1013.1	25.9	12.1	19.0	1.3	36.1	31	4.4	26+	1	0	15.0	80	91	25	31	10	7	0	0	1.3	28	13.0	NW	24	8	15	8	5.5	68
MINNESOTA																																
DULUTH	435	963.1	1013.5	26.2	14.6	20.4	1.7	33.9	29	5.6	12	2	0	14.4	72	57	-37	26	9	10	0	0	2.5	24	17.9	W	19	14	10	7	4.4	80
INTERNATIONAL FALLS	359	969.5	1011.8	28.2	14.2	21.2	2.4	36.7	29	4.4	12	8	0	14.4	69	51	-50	17	11	8	0	0	1.7	24	11.2	25	31	5	19	7	5.7	
MINNEAPOLIS	254	984.4	1014.0	30.5	18.7	24.6	2.4	36.7	29	9.4	12	15	0	15.6	59	15	-79	8	6	5	0	0	1.5	23	22.4	NW	23	15	12	4	4.2	84
ROCHESTER	395	968.2	1015.0	29.6	16.7	22.9	1.7	34.4	3	6.1	13	7	0	15.6	66	26	-69	14	5	2	0	0	1.9	24	15.6	34	9	16	12	3	3.7	
ST CLOUD	312	977.3	1014.1	30.1	15.9	22.9	1.7	36.7	29	6.1	12	12	0			5	-77	33	2		0	0						14	13	4	4.0	
MISSISSIPPI																																
JACKSON	94	1003.7	1015.3	32.7	21.9	27.3	-0.3	35.0	21	16.1	13	24	0	22.2	80	249	141	125	14	15	0	0	[illegible]	23	10.3	SW	5	3	16	12	6.4	48

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation ground	Pressure: Station	Pressure: Sea level	Temperature: Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days: Max 32.2 °C or above	Min 0 °C or lower	Average dew point	Average relative humidity	Precipitation: Total	Departure from normal	Greatest in 24 hours	No. of days: 25 mm or more	With thunderstorms	Snow, Ice pellets: Total	Maximum depth on ground	Wind: Resultant speed	Resultant direction	Fastest mile (1.6 kilometers): Speed	Direction	Date	No. of days sunrise to sunset: Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10	Sky cover tenths sunrise to sunset	Possible sunshine
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
MISSISSIPPI																																
MERIDIAN	94	1004.7	[illegible]	32.4	22.2	27.3	[illegible]	34.4	5	18.3	13	21	0	22.2	78	172	42	54	14	9	0	0	[illegible]	13	7.6	19	25	1	13	17	7.3	
MISSOURI																																
COLUMBIA REGIONAL	[illegible]	984.1	[illegible]	31.3	17.7	24.5	[illegible]	36.7	23	8.9	13	16	0	15.6	[illegible]	14	-85	6	7	7	0	0	[illegible]	23	12.5	[illegible]	[illegible]	11	11	9	4.9	61
KANSAS CITY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	37.8	[illegible]	12.2	13	24	0	17.2	59	[illegible]	[illegible]	[illegible]	4	4	0	0	[illegible]	[illegible]	12.5	[illegible]	20	13	15	3	4.2	[illegible]
ST JOSEPH	247			32.8	18.1	25.4	[illegible]	37.8	27	8.3	13	23	0			11	[illegible]		3													
ST LOUIS	163	[illegible]	1015.6	[illegible]	19.7	25.4	[illegible]	34.4	[illegible]	11.1	13	15	0	19.4	[illegible]	64	[illegible]	[illegible]	[illegible]	13	0	0	[illegible]	24	15.2	[illegible]	5	13	14	4	6.5	[illegible]
SPRINGFIELD	384	[illegible]	[illegible]	32.5	[illegible]	25.3	[illegible]	36.7	[illegible]	9.4	13	19	0	17.5	69	47	[illegible]	19	5	8	0	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14	13	4	6.5	[illegible]
MONTANA																																
BILLINGS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	23.5	[illegible]	38.3	[illegible]	12.2	31	[illegible]	0	[illegible]	[illegible]	67	[illegible]	[illegible]	[illegible]	[illegible]	0	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5	4.3	[illegible]
GLASGOW	[illegible]	[illegible]	[illegible]	[illegible]	15.4	22.8	1.4	39.4	[illegible]	10.0	11	11	0	[illegible]	57	[illegible]	[illegible]	[illegible]	11	9	0	0	[illegible]	5	15.6	34	[illegible]	12	14	5	[illegible]	[illegible]
GREAT FALLS	[illegible]	886.3	[illegible]	[illegible]	14.4	[illegible]	1.4	[illegible]	[illegible]	10.0	31	12	0	10.5	54	[illegible]	[illegible]	24	9	7	0	0	1.2	23	[illegible]	[illegible]	[illegible]	11	12	5	[illegible]	[illegible]
HAVRE	[illegible]	932.5		[illegible]	[illegible]	[illegible]	1.8	41.1	[illegible]	10.6	17	14	0			[illegible]	[illegible]	45	11	4	0	0			[illegible]	[illegible]	15	15	[illegible]	5	[illegible]	[illegible]
HELENA	1167	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	35.6	27	8.9	18	6	0	[illegible]	57	99	74	[illegible]	[illegible]	13	0	0	[illegible]	[illegible]	[illegible]	[illegible]	5	13	[illegible]	7	4.5	[illegible]
KALISPELL	[illegible]	911.3	[illegible]	[illegible]	[illegible]	[illegible]	3.1	37.4	[illegible]	5.6	18	14	0	11.1	57	25	[illegible]	[illegible]	6	6	0	0	[illegible]	32	[illegible]	[illegible]	14	[illegible]	9	5	[illegible]	
MILES CITY	[illegible]	[illegible]	[illegible]	[illegible]	17.8	24.9	1.3	[illegible]	[illegible]	11.1	11	[illegible]	0	13.3	54	42			6	[illegible]	0		[illegible]									
MISSOULA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	22.1	2.9	[illegible]	[illegible]	7.8	[illegible]	16	0	[illegible]	[illegible]	38	[illegible]	[illegible]	9	[illegible]	0	0	[illegible]	32	[illegible]	[illegible]	20	[illegible]	[illegible]	5	3.7	[illegible]
NEBRASKA																																
GRAND ISLAND	[illegible]	[illegible]	1014.4	31.8	[illegible]	24.9	[illegible]	[illegible]	[illegible]	10.0	13	18	0	15.5	[illegible]	[illegible]	[illegible]	27	5	4	0	0	[illegible]	[illegible]	[illegible]	[illegible]	17	24	4	3	2.6	
LINCOLN	[illegible]	[illegible]	[illegible]	[illegible]	18.6	[illegible]	[illegible]	37.2	[illegible]	10.6	13	20	0	14.7	59	[illegible]	[illegible]	22	5	5	0	0	[illegible]	[illegible]	[illegible]	[illegible]	17	[illegible]	[illegible]	4	3.3	[illegible]
NORFOLK	[illegible]			[illegible]	18.4	25.3	[illegible]	[illegible]	5	10.0	13	18	0			[illegible]	[illegible]	45	7		0							[illegible]	[illegible]	3	2.9	
NORTH PLATTE	[illegible]	[illegible]	[illegible]	[illegible]	15.2	23.7	[illegible]	37.2	[illegible]	[illegible]	13	14	0	14.4	54	54	[illegible]	42	5	5			[illegible]	15	12.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
OMAHA	[illegible]	[illegible]	[illegible]	33.4	[illegible]	26.1	[illegible]	37.8	[illegible]	10.6	13	23	0	17.4	[illegible]	[illegible]	[illegible]	[illegible]	6	6			[illegible]	17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.9	[illegible]
SCOTTSBLUFF	[illegible]	[illegible]	1012.7	[illegible]	[illegible]	[illegible]	1.9	38.9	[illegible]	9.4	12	23	0	11.1	[illegible]	[illegible]	[illegible]	[illegible]	7	8	0	0	[illegible]	12	[illegible]	[illegible]	5	[illegible]	[illegible]	4	3.7	
VALENTINE	789			33.4	[illegible]	25.3	1.9	[illegible]	[illegible]	6.7	12	20	0			47	[illegible]		7		0	0			[illegible]	[illegible]	6	[illegible]	[illegible]	5	3.4	[illegible]
NEVADA																																
ELKO	[illegible]	[illegible]	[illegible]	[illegible]	11.7	[illegible]	[illegible]	[illegible]	[illegible]	5.0	[illegible]	18	0	[illegible]	[illegible]	4	[illegible]	[illegible]	5	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3	[illegible]	
ELY	[illegible]	[illegible]	[illegible]	[illegible]	9.7	[illegible]	[illegible]	34.4	[illegible]	1.7	[illegible]	10	0	[illegible]	[illegible]	26	[illegible]	[illegible]	6	6			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14	[illegible]	[illegible]	[illegible]	
LAS VEGAS	[illegible]	[illegible]	[illegible]	[illegible]	24.9	[illegible]	[illegible]	[illegible]	[illegible]	19.4	[illegible]	31	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
RENO	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.7	[illegible]	22	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
WINNEMUCCA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	23.3	1.7	[illegible]	[illegible]	[illegible]	[illegible]	24	0		34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
NEW HAMPSHIRE																																
CONCORD	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.8	[illegible]	18	[illegible]	[illegible]	9	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12	5			[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	11	[illegible]	[illegible]
MT WASHINGTON [illegible]	[illegible]			13.8	[illegible]	[illegible]	1.4	[illegible]	8	0.6	20	0	0			[illegible]	[illegible]	[illegible]	[illegible]	5					[illegible]		16	2	[illegible]	[illegible]	[illegible]	[illegible]
NEW JERSEY																																
ATLANTIC CITY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3	[illegible]	[illegible]	[illegible]	0	[illegible]	[illegible]	[illegible]	4	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]			[illegible]	[illegible]	23.1	-0.4	[illegible]	[illegible]	13.9	[illegible]	[illegible]	0			[illegible]	3	[illegible]	[illegible]						[illegible]		[illegible]					
NEWARK	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.3	[illegible]	[illegible]	[illegible]	[illegible]	3	0	17.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
TRENTON	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31	13.9	1	[illegible]	0			[illegible]	22	[illegible]	[illegible]						[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
NEW MEXICO																																
ALBUQUERQUE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
CLAYTON	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]									[illegible]	[illegible]	[illegible]	[illegible]	
ROSWELL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
NEW YORK																																
ALBANY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31	[illegible]	[illegible]	[illegible]	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BINGHAMTON	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	26	[illegible]	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BUFFALO	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31	[illegible]	26	[illegible]	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	S	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	N	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
NORTH CAROLINA																																
ASHEVILLE	652	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	65	84	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13	15	[illegible]	[illegible]

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure		Temperature											Average relative humidity	Precipitation							Wind					No of days (sunrise to sunset)			Sky cover, tenths (sunrise to sunset)	Possible sunshine
												No of days							No of days		Snow, Ice pellets				Fastest mile (1 6 kilometers)							
		Station	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32 2 °C or above	Min 0 C or lower	Average dew point		Total	Departure from normal	Greatest in 24 hours	25 mm or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10		
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
NORTH CAROLINA																																
CAPE HATTERAS R	2	1016.9	1017.4	28.5	22.1	25.3	-0.2	31.1	23	15.0	28	0	0	21.7	82	170	2	50	16	11	0	0	2.5	21	9.4	22	10	5	7	19	7.2	55
CHARLOTTE	224	989.8	1016.6	29.2	19.9	24.6	-1.3	32.2	23+	16.1	5	3	0	18.9	76	193	76	75	14	8	0	0	0.7	17	14.8	SE	29	5	10	16	6.8	64
GREENSBORO	272	985.4	1016.7	30.0	20.1	25.1	-0.1	33.9	3	15.6	2	9	0	20.6	81	214	202	40	15	12		0	0.9	18	15.2	NW	11	7	8	16	6.7	49
RALEIGH	132	1001.0	1016.7	29.7	18.8	24.2	-1.1	33.3	22	8.9	2	5	0	18.9	77	171	42	6	14	18	0	0	1.7	20	10.3	36	4	5	9	17	7.0	54
WILMINGTON	9	1015.9	1017.1	31.2	21.9	26.6	-0.3	33.9	22+	15.6	2	10	0	22.2	80	248	35	54	12	8	0	0	1.5	20	12.1	SW	11	5	7	19	7.4	52
NORTH DAKOTA																																
BISMARCK	502	953.6	1012.1	30.3	14.9	22.7	1.1	41.1	28	5.0	12	9	0	13.9	60	67	11	48	6	7	0	0	2.1	9	18.8	NW	9	17	10	4	3.7	74
FARGO	272	980.4	1012.4	29.7	17.2	23.5	2.0	37.8	29	8.3	12	9	0	16.1	65	61	-19	25	6	8	0	0	1.5	21	21.5	NW	9	16	10	5	3.7	78
WILLISTON	579	945.5	1012.4	30.3	15.2	22.8	1.6	40.0	28	7.8	24	10	0	13.9	61	60	8	21	10	10	0	0	0.6	31	13.9	NW	19	12	13	6	4.6	
OHIO																																
AKRON	368	972.2	1016.1	28.8	16.4	22.6	0.6	33.9	31	11.7	11	2	0	16.1	69	56	-40	29	9	8	0	0	1.0	24	9.4	30	24+	12	12	7	4.8	
CINCINNATI ABBE OB	232			30.7	18.2	24.4	-0.1	34.4	31	10.6	14	12	0			39	-61	15	7						8.5	W	13					77
CLEVELAND	237	986.3	1015.6	27.9	15.7	21.8	-0.1	31.7	31	10.0	11	0	0	15.6	69	65	-23	27	9	10	0	0	1.3	24	13.4	S	18	13	14	4	3.8	81
COLUMBUS	247	986.5	1015.9	30.2	17.7	23.9	0.8	35.0	31	12.2	12	8	0	18.3	72	52	-55	20	10	10	0	0	0.5	21	13.0	W	13	10	16	5	5.0	55
DAYTON	303	980.4	1015.8	28.7	16.9	22.8	-0.8	33.9	31	11.1	14+	3	0	16.1	69	140	50	47	10	9	0	0	0.7	22	14.8	NE	3	11	14	6	4.7	62
MANSFIELD	395			28.9	16.5	22.7	-0.3	33.9	31	11.1	11	3	0	15.6	67	24	-70	15	7	7	0	0	1.3	22	10.3	30	19+	10	12	9	4.9	
TOLEDO	204	990.5	1015.2	28.3	14.8	21.6	-0.8	32.8	31	9.4	11	2	0	16.7	75	127	45	74	6	8	0	0	1.2	25	22.4	NW	3	12	15	4	4.4	69
YOUNGSTOWN	359	973.9	1016.0	28.4	15.1	21.7	0.2	33.3	31	9.4	26+	1	0	15.6	69	60	-39	21	7	8	0	0	0.8	22	13.0	27	10	10	15	6	4.8	
OKLAHOMA																																
OKLAHOMA CITY	392	969.9	1015.3	31.2	19.9	25.6	-1.9	35.6	7	13.3	13	9	0	18.9	70	196	128	74	10	11	0	0	1.8	15	11.6	SW	19	9	14	8	5.6	54
TULSA	198	991.2	1015.0	33.1	21.5	27.3	-0.5	37.2	23+	12.2	13	24	0	20.6	70	54	-35	34	6	6	0	0	1.2	19	13.0	SW	19	15	8	8	4.8	69
OREGON																																
ASTORIA	2	1017.6	1018.4	20.0	11.8	15.9	0.4	28.9	4	8.9	23+	0	0	11.1	76	6	-19	3	4	2	0	0	2.4	27	10.3	30	26	5	11	15	7.1	
BURNS J	1265			29.6	13.7	21.6	1.4	36.7	27	5.0	30	12	0			15	7	7	5		0	0			13.9Y		28+	17	12	2	3.5	
EUGENE	109	1003.1		28.1	12.5	20.3	0.9	35.6	26	7.8	31	4	0			30	23	14	3	1	0	0	1.2	29	10.3		5+	12	8	11	5.1	
MEDFORD	396	967.8	1014.7	31.8	12.9	22.4	0.3	41.1	26	6.1	31	18	0	9.4	49	6	-1	5	4	2	0	0	1.7	31	8.9	35	28	22	3	6	2.7	
PENDLETON	452	960.4	1012.9	33.9	17.6	25.8	2.7	42.2	9	12.2	2+	21	0	10.0	39	19	12	17	5	3	0	0	1.7	27	10.3	27	27	16	10	5	3.9	
PORTLAND	6	1015.2	1016.4	26.7	14.4	20.6	1.1	35.0	26	10.6	28	4	0	11.1	61	11	-1	8	2	3	0	0	2.6	33	7.6	NW	28+	12	8	11	5.2	67
SALEM	60	1009.1	1016.5	27.3	11.6	19.5	0.3	36.1	26	6.7	29	4	0	11.7	65	13	4	7	3	3	0	0	1.1	32	7.2	3	28+	17	4	10	4.1	
SEXTON SUMMIT R	1169	885.2	1014.6	24.3	11.4	17.8	0.3	33.3	26	3.9	29	1	0			10	1	4	4		0	0			12.1		11					
PACIFIC AREA																																
GUAM TAGJAC R	110			29.8	21.7	25.8	-0.6	31.7	2	19.4	11	0	0			283	39	68	26		0	0			14.8	E	11	0	10	21	8.5	64
JOHNSTON	2	1014.2	1014.7	28.1	24.6	26.3	-0.8	28.9	30+	22.2	6	0	0	21.1	73	12	-16	10	4	0	0	0	7.5	9	16.1	E	27	15	12	4	4.4	86
KOROR R	29	1005.8		30.7	23.5	27.1	-0.2	32.2	25+	22.2	30+	2	0			581	169	104	25	3	0	0	0.5	15	8.9	SW	30+	1	6	24	8.4	54
KWAJALEIN	2	1009.5		29.5	24.6	27.1	-0.8	30.6	10+	22.2	7	0	0			298	52	66	28	1	0	0	4.2	8	13.0	12	12	1	8	22	8.3	
MAJURO	3	1010.2		28.8	24.2	26.5	-0.7	30.0	27+	21.7	12	0	0			361	15	75	24		0	0	3.1	8	13.9	E	12	0	7	24	8.8	42
PAGO PAGO	4	1012.9	1013.2	28.7	23.8	26.3	0.6	30.0	20+	20.6	21+	0	0	22.2	79	208	31	57	17	3	0	0	5.0	9	13.0	E	2	1	17	13	6.7	61
PONAPE R	37			30.6	22.5	26.6	-0.1	32.2	29	21.1	19+	1	0			396	-56	101	29	4	0	0			11.6	NE	13	1	8	22	8.2	52
TRUK MOEN ISLAND	2	1009.5		30.4	23.9	27.2	0.2	31.7	24+	22.2	4	0	0			187	-205	40	24	0	0	0	1.6	10	12.1	NE	15	0	2	29	9.5	44
WAKE	3	1013.9	1014.1	31.2	24.2	27.7	-0.1	32.8	1	22.2	19+	4	0	22.2	73	78	-35	14	21	3	0	0	4.8	9	13.4	E	1	6	12	13	6.5	70
YAP R	13	1007.1		30.4	23.1	26.8	-0.6	31.1	29+	21.1	28+	0	0			213	-159	51	23	0	0	0	1.1	14	9.4	SW	31+	5	5	21	7.8	68
PENNSYLVANIA																																
ALLENTOWN	118	1002.4	1016.1	28.4	17.9	23.2	-0.2	32.8	31	11.1	1	2	0	16.1	68	196	85	44	11	10	0	0	1.3	24	21.5	35	3	9	10	12	5.9	
ERIE	223	989.5	1015.7	27.2	17.1	22.1	1.7	31.7	6	11.7	12	0	0	16.1	69	82	-3	32	7	5	0	0	1.7	22	13.0	30	19	14	8	9	4.6	
HARRISBURG	103	1004.1	1016.6	29.2	18.9	24.1	-0.4	32.2	31+	12.8	27+	3	0	18.9	77	80	-14	30	12	10	0	0	0.9	24	19.2	NE	3	11	9	11	5.5	71
PHILADELPHIA	2	1014.9	1016.1	29.9	19.7	24.8	-0.1	33.3	3	13.3	1	7	0	18.9	72	161	57	71	10	10	0	0	1.6	22	13.9	N	3	9	8	14	5.5	67
PITTSBURGH	347	973.2	1016.3	29.1	16.2	22.7	0.5	35.6	31	12.8	12+	5	0	13.9	61	111	14	61	9	9	0	0	0.7	25	12.1	16	24	10	14	7	4.8	62
SCRANTON	283	982.4	1016.0	28.4	17.9	23.2	0.8	32.8	31	10.6	1	1	0	17.2	71	98	-6	25	12	6	0	0	1.3	21	13.9	S	9	8	13	10	5.6	61
WILLIAMSPORT	160	997.3	1015.9	27.7	16.8	22.3	-0.4	32.8	31	11.1	27+	1	0	17.2	76	93	-13	28	13	8	0	0	0.5	25	14.3	30	24	9	12	10	5.7	
RHODE ISLAND																																
BLOCK ISLAND	34			24.9	19.2	22.1	1.2	28.9	3	13.9	2	0	0			34	-36	20	4		0	0										
PROVIDENCE	16	1013.5	1015.8	28.1	18.9	23.5	1.2	33.3	31	12.2	27+	2	0	17.8	73	89	17	39	6	2	0	0	2.3	22	9.4	21	13	7	10	14	6.4	59
SOUTH CAROLINA																																
CHARLESTON	12	1015.2	1017.2	30.7	21.8	26.2	-0.6	33.3	23+	16.7	2	6	0	21.1	79	237	29	42	19	16	0	0	1.5	18	10.3	S	13+	3	9	19	7.5	72

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure		Temperature											Average relative humidity	Precipitation							Wind					No. of days (sunrise to sunset)			Sky cover, tenths (sunrise to sunset)	Possible sunshine
												No. of days							No. of days		Snow, Ice pellets				Fastest mile (1.6 kilometers)							
		Station	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min 0 C or lower	Average dew point		Total	Departure from normal	Greatest in 24 hours	25 mm. or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy 4-7	Cloudy 8-10		
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
SOUTH CAROLINA																																
CHARLESTON CO	3			30.5	23.9	27.1	-0.3	33.9	23	21.7	2	7	0					46				0			16.[illegible]	[illegible]	7					
COLUMBIA	69	1006.5	1016.4	31.0	21.2	26.1	-1.2	35.6	4	16.7	2	10	0	21.7	82	252	108	104	16	15	0	0	[illegible]	20	12.[illegible]	19	29	5	4	22	7.6	53
GRNVLLE-SPRTNBRG	292	982.4	1016.3	29.6	19.8	24.7	-1.0	32.2	4	16.7	5	1	0	20.0	80	122	15	29	14	10	0	0	[illegible]	18	13.0	E	4	4	13	14	6.6	56
SOUTH DAKOTA																																
ABERDEEN	395	966.5	1012.3	33.7	17.8	25.7	3.6	42.8	28	9.4	12	21	0	15.6	58	8	-62	5	3	2	0	0	1.[illegible]	19	12.5	18	29	20	9	2	2.9	
HURON	390	966.8	1012.[illegible]	34.7	17.1	25.9	2.7	42.8	28	5.6	12	24	0	14.4	54	12	-45	8	4	4	0	0	1.9	18	25.[illegible]	SE	31	18	12	1	2.8	89
RAPID CITY	964	905.2	1013.2	31.8	15.7	23.7	1.2	39.4	28	9.4	12+	16	0	12.8	54	40	-13	35	7	8	0	0	[illegible]	36	18.8	[illegible]	20	15	14	2	3.8	89
SIOUX FALLS	437	963.5	1014.1	34.1	17.4	25.8	2.9	39.4	26	7.8	11	23	0	15.0	55	16	-59	9	4	2	0	0	1.7	21	10.7	22	17	19	12	0	2.6	
TENNESSEE																																
BRISTOL	459	963.4	1016.6	29.6	17.9	23.8	-0.2	33.3	30+	15.0	13	4	0	18.9	79	62	-64	[illegible]	7	8	0	0	[illegible]	13	8.[illegible]	25	9+	5	14	12	6.3	
CHATTANOOGA	[illegible]	991.5	1015.7	31.2	19.8	25.6	[illegible]	34.4	22	14.4	12	12	0	[illegible]	76	58	-75	28	11	9			[illegible]	22	13.4	5	30	4	19	8	6.2	[illegible]
KNOXVILLE	299	982.1	1016.4	30.9	19.7	25.3	-0.3	34.4	29	15.6	14	7	0	[illegible]	77	57	-62	22	8	7	0	0	1.1	25	8.4	13	30+	3	15	13	6.4	[illegible]
MEMPHIS	79	1005.1	1015.2	32.1	22.8	27.3	-0.3	35.6	5	17.2	14+	18	0	21.1	73	57	-32	19	11	13		0	[illegible]	14	11.2	5	2	9	14	8	5.6	[illegible]
NASHVILLE	180	993.9	1015.1	31.4	20.2	25.8	[illegible]	33.9	29+	13.9	13	15	0	20.0	74	75	-22	57	8	5	0	0	[illegible]	22	13.0	30	24	4	20	7	5.6	72
OAK RIDGE R	276			29.9	17.8	23.7	-1.3	33.3	22	12.2	12	3	0			73	-71	15	11		0	0			13.[illegible]Y		24	4	6	19	7.2	
TEXAS																																
ABILENE	546	952.9	1014.1	32.5	20.8	25.5	-2.3	36.7	31+	18.3	16	21	0	17.2	62	49	-10	23	10	6		0	2.7	17	13.[illegible]	5	16	4	10	13	5.7	69
AMARILLO	1098	892.7	1013.5	30.1	18.2	24.2	[illegible]	33.9	30+	16.1	25+	9	0	16.7	68	132	57	43	14	14		0	2.9	18	15.6	25	30	6	15	10	6.[illegible]	65
AUSTIN	182	992.9	1014.6	32.9	22.7	27.8	-1.4	36.7	31+	18.9	14	21	0	21.1	73	57	-9	43	7	8		0	[illegible]	17	9.8	[illegible]	29+	11	11	9	5.1	74
BROWNSVILLE	6	1013.5	1014.2	32.7	23.9	28.[illegible]	-1.1	35.6	11	21.1	5+	25	0	22.8	76	121	91	51	9	6		0	3.8	15	11.6	E	26	9	15	7	5.5	78
CORPUS CHRISTI	12	1012.9	1014.6	34.1	24.[illegible]	29.2	-0.2	37.8	29	21.7	16	27	0	23.9	76	103	55	45	10	2		0	3.7	14	13.[illegible]	SE	15	[illegible]	13	9	5.4	75
DALLAS - FORT WORTH	168	993.9	1014.6	34.2	23.1	28.7	-0.7	37.8	22+	18.3	13	27	0	20.0	64	129	82	96	6	7		0	1.3	16	12.5	14	22	10	14	7	5.1	
DEL RIO	313	977.7	1012.9	33.[illegible]	21.4	27.3	-3.1	38.3	[illegible]	18.3	17+	21	0	19.4	68	210	184	161	8	4		0	3.5	12	[illegible]	E	1	8	8	15	6.2	
EL PASO	1194	882.5	1011.[illegible]	34.3	18.9	26.6	-1.4	37.8	[illegible]+	16.1	14+	30	0	14.4	52	26	-11	[illegible]	8	10		0	1.3	11	12.5	[illegible]	24	6	18	7	5.4	[illegible]
GALVESTON	2			31.1	26.4	28.8	[illegible]	33.9	28	22.8	1	6	0			33	-8	15	6			0			11.2	SW	31					63
HOUSTON INTERCON	29	1011.9	1015.5	33.3	21.7	27.5	-1.0	35.6	28	20.0	14+	25	0	22.2	73	139	35	48	12	13		0	[illegible]	16	[illegible]	[illegible]	28+	5	15	[illegible]	6.3	[illegible]
LUBBOCK	992	905.2	1013.9	29.6	18.7	24.1	-2.4	33.3	7	16.7	18	8	0	16.7	69	110	53	39	12	9		0	2.2	16	14.3	[illegible]	23	6	10	15	6.3	53
MIDLAND	859	916.7	1013.1	31.[illegible]	19.7	25.4	-2.5	35.[illegible]	[illegible]+	16.7	13	16	0	17.2	66	194	151	61	11	10		0	2.4	14	15.6	5	19	8	11	12	5.7	
PORT ARTHUR	[illegible]	1014.9		32.6	22.3	27.4	-0.9	35.[illegible]	28+	20.0	1	24	0			192	42	46	15	17		0	[illegible]	22	13.[illegible]	[illegible]	29	4	10	17	7.[illegible]	[illegible]
SAN ANGELO	580	946.5	1013.7	31.4	20.3	25.9	-3.4	35.6	31	16.7	13	14	0	17.8	65	68	36	51	6	4		0	3.[illegible]	16	9.4	[illegible]	16+	9	9	13	5.[illegible]	
SAN ANTONIO	240	987.1	1014.7	32.1	22.3	27.2	-2.1	35.6	[illegible]+	20.0	17+	19	0	[illegible]	71	27	-15	[illegible]	6	2		0	2.5	15	[illegible]	[illegible]	17+	[illegible]	14	7	5.7	57
VICTORIA	32	[illegible]	1014.9	33.7	24.1	28.9	[illegible]	36.1	[illegible]+	21.7	15	24	0	23.3	79	94	23	[illegible]	13	10		0	[illegible]	17	23.2Y	[illegible]	15	3	14	14	6.6	
WACO	152	997.[illegible]	1014.5	33.7	21.8	27.8	-2.[illegible]	38.3	29	17.2	14+	25	0	[illegible]	67	[illegible]	33	36	6	6		0	2.2	15	[illegible]	[illegible]	25	[illegible]	9	[illegible]	5.2	
WICHITA FALLS	[illegible]	976.7	1014.4	34.5	21.[illegible]	27.7	-2.2	38.9	6+	16.1	13	26	0	18.9	66	87	32	64	8	8		0	[illegible]	14	16.[illegible]	[illegible]	3	[illegible]	11	[illegible]	5.4	
UTAH																																
MILFORD	1533	846.9	1012.[illegible]	32.8	13.8	22.8	[illegible]	36.7	6+	7.8	2	21	0			38	22	13	8						17.4	SW	17	17	8	6	3.5	76
SALT LAKE CITY	1286	871.3	1011.3	33.9	18.1	26.[illegible]	1.2	37.2	27+	11.7	31	27	0	9.4	39	7	-11	5	5	7			3.3	16	14.3	SW	29+	16	10	5	6.[illegible]	65
WENDOVER	1291	870.0	1011.5	33.7	20.9	27.3	1.1	37.2	7+	15.0	31	25	0	5.1	29	2	-6	1	3				[illegible]	9								
VERMONT																																
BURLINGTON	101	[illegible]	[illegible]	[illegible]	17.4	23.7	2.[illegible]	34.4	18	10.6	1	9	0	15.6	64	94	[illegible]	35	11	4		0	[illegible]	19	16.[illegible]	[illegible]	24	5	15	11	6.3	67
VIRGINIA																																
LYNCHBURG	279	983.7		28.4	18.[illegible]	23.3	-1.[illegible]	31.7	[illegible]+	11.7	2	[illegible]	0			112	9	27	12						11.2	[illegible]	[illegible]	[illegible]	9	14	6.6	[illegible]
NORFOLK	7	1012.6	1016.7	[illegible]	21.2	25.7	-0.2	35.[illegible]	2	16.1	2	10	0	[illegible]	76	349	204	72	14	14			1.3	[illegible]	11.6	[illegible]	13	5	12	14	6.6	
RICHMOND	50	1010.2	1016.6	29.5	19.[illegible]	24.4	-1.[illegible]	33.3	14	11.7	2	7	0	19.4	79	312	163	[illegible]	14	13			[illegible]	19	12.[illegible]	[illegible]	6	5	14	12	6.7	[illegible]
ROANOKE	350	975.3	1016.6	28.8	18.4	23.6	-0.4	32.[illegible]	[illegible]	12.8	1	3	0	18.3	77	131	36	24	14	10			[illegible]	13	14.3	29	19	[illegible]	[illegible]	15	6.6	
WALLOPS ISLAND	[illegible]			27.3	20.3	23.8	[illegible]	32.[illegible]	2	13.9	1	1	0			[illegible]	[illegible]	35	14			0			19.[illegible]Y	[illegible]	5					
WASHINGTON																																
OLYMPIA	59	[illegible]		24.7	[illegible]	17.7	[illegible]	32.2	[illegible]	6.7	[illegible]	[illegible]	0			4	-11	3	5	1		0			7.6	[illegible]	27+	[illegible]	9	13	6.[illegible]	
QUILLAYUTE	55	[illegible]	[illegible]	[illegible]	[illegible]	15.[illegible]	[illegible]	33.3	4	5.6	24+	[illegible]	0	11.1	81	11	-49	4	13	1		0	[illegible]	22	7.6	[illegible]	26	6	6	19	6.9	34
SEATTLE	4			23.9	13.9	18.9	0.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0			2	-17	2	4			0			7.4Y	[illegible]	30+					
SEATTLE-TACOMA	122	[illegible]	1017.[illegible]	25.6	13.3	19.7	1.7	[illegible]	[illegible]	[illegible]	29	[illegible]	0	[illegible]	63	7	-11	3	4	2		0	1.3	[illegible]	[illegible]	[illegible]	25	[illegible]	9	12	5.7	54
SPOKANE	718	[illegible]	1012.[illegible]	29.7	15.1	22.4	1.5	38.3	[illegible]	9.4	[illegible]	[illegible]	0	[illegible]	51	41	3	24	5	4		0	1.4	19	11.6	[illegible]	6	15	11	5	4.2	79
STAMPEDE PASS	1206	[illegible]		18.9	[illegible]	14.2	0.1	[illegible]	[illegible]+	3.9	27	0	0			33	-7	9	13			0										
WALLA WALLA	289			32.9	18.9	25.6	1.3	43.3	2	13.3	27	[illegible]	0			1	-7	1	4			0			[illegible]	[illegible]	26	[illegible]	9	5	3.0	[illegible]
YAKIMA	321	974.6	1012.[illegible]	33.3	14.4	23.9	2.4	41.7	[illegible]+	8.3	31+	20	0	[illegible]	[illegible]	[illegible]	1	2	4	5		0	1.4	[illegible]	[illegible]	[illegible]	29+	[illegible]	11	4	3.4	

Clemson University Library

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure		Temperature								No of days			Average relative humidity	Precipitation			No of days		Snow, Ice pellets		Wind		Fastest mile (1.6 kilometers)			No of days (sunrise to sunset)			Sky cover, tenths (sunrise to sunset)	Possible sunshine
		Station	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min 0 C or lower	Average dew point		Total	Departure from normal	Greatest in 24 hours	25 mm or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy 4-7	Cloudy, 8-10		
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
WEST INDIES																																
SAN JUAN P.R.	4	1014.6	1017.1	31.2	25.4	28.3	1.2	32.8	5+	23.3	14	3	0	22.2	70	95	-73	42	18	5	0	0	4.1	8	19.7	E	19	10	18	3	4.9	65
WEST VIRGINIA																																
BECKLEY	763	930.6	1016.7	25.8	15.8	20.8	-0.3	28.9	31+	12.8	27+	0	0	16.7	82	184	73	45	17	14	0	0	1.2	19	16.5	12	23	4	12	15	7.0	
CHARLESTON	286	982.7	1016.2	29.3	17.6	23.4	-0.4	34.4	31	13.3	27	5	0	17.8	76	69	-59	21	11	9	0	0	0.5	22	11.2	1	9	7	12	12	6.1	
ELKINS	594	947.5		26.4	13.9	20.2	-0.2	30.0	31	6.3	27	0	0			65	-60	27	14		0	0						3	14	14	6.9	
HUNTINGTON	252	986.5	1015.6	29.4	18.3	23.9	-0.2	33.9	31	13.3	12	5	0	18.9	78	114	9	42	11	9	0	0	0.3	22	9.4	32	10	5	7	19	7.3	
PARKERSBURG U	187			29.4	17.7	23.6	-0.4	35.0	31	14.4	27+	4	0			60	-49	22	8		0	0			11.2	NE	3					59
WISCONSIN																																
GREEN BAY	208	988.5	1013.8	28.0	15.3	21.7	1.0	33.9	31	8.3	13	5	0	15.0	67	45	-33	11	9	3	0	0	1.9	24	11.6	S	18	11	11	9	4.9	65
LA CROSSE	198	991.2	1015.3	29.6	17.0	23.3	0.7	35.6	18	7.2	13	12	0	16.7	69	36	-53		8	6	0		0.7	21								
MADISON	262	983.7	1014.8	29.0	15.9	22.4	1.3	33.9	18	7.2	12	8	0	15.6	65	154	57	99	7	6	0	0	1.6	25	11.2	NW	3	13	13	5	4.3	75
MILWAUKEE	205	989.6	1014.8	26.9	17.3	22.1	1.0	31.7	22+	10.0	12	0	0	16.1	70	29	-58	12	10	5	0	0	1.5	23	15.2	SE	18	11	12	8	4.7	72
WYOMING																																
CASPER	1627	840.2	1013.3	31.4	14.0	22.7	1.1	35.0	28+	7.2	12	12	0	3.9	47	14	-8	9	13	13	0	0	1.6	25	14.3	20	3	10	18	3	4.4	
CHEYENNE	1867	814.8	1013.6	27.1	12.1	19.6	-1.0	31.1	1	5.6	12	0	0	7.8	50	67	20	26	11	12	0	0	1.0	25	16.5	NE	23	9	19	3	4.4	71
LANDER	1696	832.0	1013.8	30.1	13.7	21.9	0.5	33.9	27	11.1	17	6	0	7.8	44	7	-6	4	5	11	0	0	1.3	24	15.6	SW	21	11	19	1	4.3	70
SHERIDAN	1208	880.1	1014.3	30.1	13.3	21.7	0.3	37.8	28	7.8	12	7	0	12.3	62	22	-5	8	9	13	0	0	0.4	29	19.2	NW	17	9	17	5	4.5	69

HEATING DEGREE DAYS

(Base 65°F.)

JULY 1975

State and Station	Current season		Normals
	This month	Period July through this month	July through this month
ALABAMA			
BIRMINGHAM	0	0	0
HUNTSVILLE	0	0	0
MOBILE	0	0	0
MONTGOMERY	0	0	0
ALASKA			
ANCHORAGE	192	192	220
ANNETTE	271	271	231
BARROW	850	850	815
BARTER ISLAND	803	803	775
BETHEL	255	255	319
BETTLES	134	134	231
BIG DELTA	148	148	181
COLD BAY	443	443	462
FAIRBANKS	33	33	148
GULKANA	230	230	254
HOMER	367	367	394
JUNEAU	281	281	288
KING SALMON	311	311	326
KODIAK	424	424	338
KOTZEBUE	451	451	375
MC GRATH	173	173	219
NOME	414	414	462
ST. PAUL ISLAND	653	653	598
SUMMIT	383	383	403
TALKEETNA	222	222	22
UNALAKLEET	247	247	341
VALDEZ	292	292	363
YAKUTAT	352	352	36
ARIZONA			
FLAGSTAFF	23	23	52
PHOENIX	0	0	0
TUCSON	0	0	0
WINSLOW	0	0	0
YUMA	0	0	0
ARKANSAS			
FORT SMITH	0	0	
LITTLE ROCK	0	0	0
CALIFORNIA			
BAKERSFIELD	0	0	0
BISHOP	0	0	0
BLUE CANYON	65	65	27
EUREKA U	244	244	270
FRESNO	0	0	0
LONG BEACH	0	0	0
LOS ANGELES	0	0	19
LOS ANGELES U		0	0
MT SHASTA R	53	53	37
OAKLAND	97	97	80
RED BLUFF	0	0	0
SACRAMENTO	0	0	0
SANDBERG R	7	7	7
SAN DIEGO	0	0	0
SAN FRANCISCO	109	109	93
SAN FRANCISCO U	185	185	202
SANTA MARIA	103	103	112
STOCKTON	0	0	0
COLORADO			
ALAMOSA	26	26	55
COLORADO SPRINGS	0	0	9
DENVER	0	0	0
GRAND JUNCTION	0	0	
PUEBLO	0	0	0
CONNECTICUT			
BRIDGEPORT	0	0	0
HARTFORD	0	0	0
DELAWARE			
WILMINGTON	0	0	0
DIST.OF COLUMBIA			
WASHINGTON DULLES	0	0	0
WASHINGTON NATIONAL	0	0	0
FLORIDA			
APPALACHICOLA U	0	0	0
DAYTONA BEACH	0	0	0
FORT MYERS	0	0	0
JACKSONVILLE	0	0	0
KEY WEST	0	0	0
LAKELAND U	0	0	0
MIAMI	0	0	0
ORLANDO	0	0	0
PENSACOLA	0	0	0
TALLAHASSEE	0	0	0
TAMPA	0	0	
WEST PALM BEACH	0	0	
GEORGIA			
ATHENS	0	0	0
ATLANTA	0	0	0
AUGUSTA	0	0	
COLUMBUS	0	0	
MACON	0		0
ROME	0	0	0
SAVANNAH	0	0	0
IDAHO			
BOISE	6	6	0
LEWISTON	1	1	0
POCATELLO	11	11	0
ILLINOIS			
CAIRO U	0	0	0
CHICAGO O HARE	1	1	7
CHICAGO MIDWAY	2	2	0
MOLINE	9	9	0
PEORIA	13	13	0
ROCKFORD	12	12	6
SPRINGFIELD	10	10	0
INDIANA			
EVANSVILLE	0	0	0
FORT WAYNE	8	8	0
INDIANAPOLIS	8	8	0
SOUTH BEND	13	13	6
IOWA			
BURLINGTON	6	6	0
DES MOINES	0	0	0
DUBUQUE	24	24	11
SIOUX CITY	1	1	0
WATERLOO	21	21	7
KANSAS			
CONCORDIA	0	0	0
DODGE CITY	0	0	0
GOODLAND	0	0	0
TOPEKA	2	2	0
WICHITA	0	0	0
KENTUCKY			
COVINGTON	5	5	0
LEXINGTON	0	0	0
LOUISVILLE	0	0	0
LOUISIANA			
ALEXANDRIA	0	0	0
BATON ROUGE	0	0	0
LAKE CHARLES	0	0	0
NEW ORLEANS	0	0	0
SHREVEPORT	0	0	0
MAINE			
CARIBOU	19	19	84
PORTLAND	13	13	27
MARYLAND			
BALTIMORE	0	0	0
MASSACHUSETTS			
BLUE HILL OBS R	3	3	6
BOSTON	0	0	0
WORCHESTER	2	2	10
MICHIGAN			
ALPENA	43	43	75
DETROIT	0	0	0
DETROIT METRO	4	4	5
FLINT	8	8	14
GRAND RAPIDS	16	16	8
HOUGHTON LAKE	44	44	59
LANSING	11	11	9
MARQUETTE U	49	49	57
MUSKEGON	16	16	15
SAULT STE MARIE	64	64	96
MINNESOTA			
DULUTH	46	46	67
INTERNATIONAL FALLS	41	41	66
MINNEAPOLIS	15	15	11
ROCHESTER	19	19	21
ST CLOUD	17	17	18
MISSISSIPPI			
JACKSON	0	0	0
MERIDIAN	0	0	0
MISSOURI			
COLUMBIA REGIONAL	2	2	0
KANSAS CITY	0	0	0
ST JOSEPH	2	2	0
ST LOUIS	2	2	0
SPRINGFIELD	0	0	0
MONTANA			
BILLINGS	1	1	10
GLASCOW	5	5	15
GREAT FALLS	12	12	18
HAVRE	7	7	18
HELENA	14	14	33
KALISPELL	15	15	72
MILES CITY		9	9
MISSOULA	9	9	39
NEBRASKA			
GRAND ISLAND	0	0	6
LINCOLN	0	0	0
NORFOLK	2	2	6
NORTH PLATTE	6	6	7
OMAHA	0	0	0
SCOTTSBLUFF	0	0	0
VALENTINE	5	5	8
NEVADA			
ELKO	8	8	27
ELY	19	19	23
LAS VEGAS	0	0	0
RENO	26	26	17
WINNEMUCCA	13	13	6
NEW HAMPSHIRE			
CONCORD	10	10	16
MT WASHINGTON OBS	415	415	502
NEW JERSEY			
ATLANTIC CITY	0	0	0
ATLANTIC CITY U	0	0	0
NEWARK	0	0	0
TRENTON U	0	0	0
NEW MEXICO			
ALBUQUERQUE	0	0	0
CLAYTON	0	0	0
ROSWELL	0	0	0
NEW YORK			
ALBANY	0	0	9
BINGHAMTON	0	0	21
BUFFALO	3	3	12
NEW YORK U	0	0	0
NEW YORK KENNEDY	0	0	0
NEW YORK LA GUARDIA	0	0	0
ROCHESTER	4	4	9
SYRACUSE	3	3	11
NORTH CAROLINA			
ASHEVILLE	0	0	0
CAPE HATTERAS R	0	0	0
CHARLOTTE	0	0	0
GREENSBORO	0	0	0
RALEIGH	0	0	0
WILMINGTON	0	0	0
NORTH DAKOTA			
BISMARCK	9	9	18
FARGO	14	14	13
WILLISTON	1	1	22
OHIO			
AKRON	2	2	9
CINCINNATI ABBE OB	0	0	0
CLEVELAND	5	5	9
COLUMBUS	0	0	0
DAYTON U	2	2	0
MANSFIELD	2	2	0
TOLEDO	7	7	5
YOUNGSTOWN	8	8	9
OKLAHOMA			
OKLAHOMA CITY	0	0	0
TULSA	0	0	0
OREGON			
ASTORIA	133	133	163
BURNS U	39	39	30
EUGENE	18	18	41
MEDFORD	18	18	11
PENDLETON	0	0	6
PORTLAND	24	24	48
SALEM	37	37	43
SEXTON SUMMIT R	109	109	97
PENNSYLVANIA			
ALLENTOWN	0	0	0
ERIE	3	3	24
HARRISBURG	0	0	0
PHILADELPHIA	0	0	0
PITTSBURGH	0	0	7
PITTSBURGH U	0	0	0
SCRANTON	0	0	7
WILLIAMSPORT	1	1	0
RHODE ISLAND			
BLOCK ISLAND	0	0	9
PROVIDENCE	0	0	0
SOUTH CAROLINA			
CHARLESTON	0	0	0
CHARLESTON U	0	0	0
COLUMBIA	0	0	0
GRNVLLE-SPRTNBRG	0	0	0
SOUTH DAKOTA			
ABERDEEN	2	2	12
HURON	4	4	9
RAPID CITY	3	3	13
SIOUX FALLS	3	3	10
TENNESSEE			
BRISTOL	0	0	0
CHATTANOOGA	0	0	0
KNOXVILLE	0	0	0
MEMPHIS	0	0	0
NASHVILLE	0	0	0
OAK RIDGE	0	0	0
TEXAS			
ABILENE	0	0	0
AMARILLO	0	0	0
AUSTIN	0	0	0
BROWNSVILLE	0	0	0
CORPUS CHRISTI	0	0	0
DALLAS FT WORTH	0	0	0
DEL RIO	0	0	0
EL PASO	0	0	0
GALVESTON	0	0	0
HOUSTON INTERCON	0	0	0
LUBBOCK	0	0	0
MIDLAND	0	0	0
PORT ARTHUR	0	0	0
SAN ANGELO	0	0	0
SAN ANTONIO	0	0	0
VICTORIA	0	0	0
WACO	0	0	0
WICHITA FALLS	0	0	0
UTAH			
MILFORD	0	0	0
SALT LAKE CITY	0	0	0
WENDOVER	0	0	0
VERMONT			
BURLINGTON	0	0	20
VIRGINIA			
LYNCHBURG	0	0	0
NORFORK	0	0	0
RICHMOND	0	0	0
ROANOKE	0	0	0
WALLOPS ISLAND	0	0	0
WASHINGTON			
OLYMPIA	73	73	89
QUILLAYUTE	178	178	194
SEATTLE	28	28	62
SEATTLE-TACOMA	23	23	80
SPOKANE	22	22	21
STAMPEDE PASS R	260	260	261
WALLA WALLA U	3	3	5
YAKIMA	0	0	20
WEST VIRGINIA			
BECKLEY	0	0	11
CHARLESTON	0	0	0
ELKINS	2	2	20
HUNTINGTON	0	0	0
PARKERSBURG U	0	0	0
WISCONSIN			
GREEN BAY	29	29	22
LA CROSSE	20	20	10
MADISON	18	18	14
MILWAUKEE	17	17	15
WYOMING			
CASPER	1	1	13
CHEYENNE	11	11	24
LANDER	0	0	9
SHERIDAN	1	1	28

Clemson University Library

COOLING DEGREE DAYS

(Base 65°F.)

JULY 1975

State and station	Current season		Normals January through this month
	This month	Period January through this month	
ALABAMA			
BIRMINGHAM	416	1103	1131
HUNTSVILLE	378	915	1054
MOBILE	529	1604	1504
MONTGOMERY	514	1250	1297
ALASKA			
ANCHORAGE	2	2	0
ANNETTE	8	8	14
BARROW	0	0	0
BARTER ISLAND	0	0	0
BETHEL	1	1	0
BETTLES	59	59	17
BIG DELTA	14	17	28
COLD BAY	0	0	0
FAIRBANKS	146	174	46
GULKANA	22	22	9
HOMER	0	0	0
JUNEAU	7	7	0
KING SALMON	0	0	0
KODIAK	0	0	0
KOTZEBUE	0	0	0
MC GRATH	18	18	14
NOME	1	1	0
ST. PAUL ISLAND	0	0	0
SUMMIT	0	0	0
TALKEETNA	10	10	6
UNALAKLEET	1	1	0
VALDEZ	0	0	0
YAKUTAT	0	0	0
ARIZONA			
FLAGSTAFF	60	60	85
PHOENIX	913	1995	1931
TUCSON	604	1274	1565
WINSLOW	408	601	691
YUMA	869	1904	2258
ARKANSAS			
FORT SMITH	457	996	1161
LITTLE ROCK	475	1219	1124
CALIFORNIA			
BAKERSFIELD	606	1416	1196
BISHOP	402	637	616
BLUE CANYON	133	203	143
EUREKA U	0	0	0
FRESNO	413	880	926
LONG BEACH	248	338	384
LOS ANGELES	128	155	221
LOS ANGELES U	241	321	483
MT SHASTA R	116	170	160
OAKLAND	17	56	42
RED BLUFF	469	1013	1051
SACRAMENTO	388	823	625
SANDBERG R	230	277	372
SAN DIEGO	142	161	267
SAN FRANCISCO	15	40	34
SAN FRANCISCO U	4	27	5
SANTA MARIA	1	1	27
STOCKTON	341	734	677
COLORADO			
ALAMOSA	24	24	64
COLORADO SPRINGS	195	254	283
DENVER	246	318	358
GRAND JUNCTION	419	561	681
PUEBLO	371	582	585
CONNECTICUT			
BRIDGEPORT	300	458	401
HARTFORD	348	601	365
DELAWARE			
WILMINGTON	337	641	579
DIST.OF COLUMBIA			
WASHINGTON DULLES	298	588	564
WASHINGTON NATIONAL	448	982	829
FLORIDA			
APPALACHICOLA U	449	1426	1486
DAYTONA BEACH	488	1790	1578
FORT MYERS	533	2438	2026
JACKSONVILLE	474	1531	1448
KEY WEST	588	3127	2755
LAKELAND U	483	2074	1841
MIAMI	508	2617	2197
ORLANDO	489	2016	1779
PENSACOLA	537	1657	1552
TALLAHASSEE	455	1458	1476
TAMPA	572	2270	1869
WEST PALM BEACH	467	2246	2041
GEORGIA			
ATHENS	433	1027	1015
ATLANTA	359	917	917
AUGUSTA	395	1036	1182
COLUMBUS	440	1254	1255
MACON	415	1187	1364
ROME	414	988	932
SAVANNAH	423	1441	1350
HAWAII			
HILO	311	1678	1640
HONOLULU	438	2182	2226
KAHULUI	355	1846	1976
LIHUE	403	2078	1948
IDAHO			
BOISE	426	500	403
LEWISTON	405	470	366
POCATELLO	290	315	254
ILLINOIS			
CAIRO U	485	1236	1090
CHICAGO O HARE	332	611	394
CHICAGO MIDWAY	354	685	545
MOLINE	325	652	555
PEORIA	292	612	595
ROCKFORD	273	549	437
SPRINGFIELD	315	703	681
INDIANA			
EVANSVILLE	406	953	835
FORT WAYNE	256	526	457
INDIANAPOLIS	281	606	600
SOUTH BEND	232	521	415
IOWA			
BURLINGTON	334	660	608
DES MOINES	408	764	567
DUBUQUE	247	463	373
SIOUX CITY	362	615	584
WATERLOO	304	605	424
KANSAS			
CONCORDIA	447	756	749
DODGE CITY	419	769	820
GOODLAND	298	418	543
TOPEKA	390	846	802
WICHITA	450	806	973
KENTUCKY			
COVINGTON	309	691	641
LEXINGTON	357	765	713
LOUISVILLE	402	898	745
LOUISIANA			
ALEXANDRIA	532	1540	1267
BATON ROUGE	515	1550	1510
LAKE CHARLES	510	1540	1573
NEW ORLEANS	479	1531	1554
SHREVEPORT	501	1277	1440
MAINE			
CARIBOU	137	191	89
PORTLAND	179	229	142
MARYLAND			
BALTIMORE	351	719	655
MASSACHUSETTS			
BLUE HILL OBS R	255	381	274
BOSTON	345	544	397
WORCHESTER	218	320	242
MICHIGAN			
ALPENA	167	277	123
DETROIT	360	701	443
DETROIT METRO	233	486	397
FLINT	187	383	270
GRAND RAPIDS	199	412	351
HOUGHTON LAKE	146	287	155
LANSING	192	430	329
MARQUETTE U	218	294	112
MUSKEGON	213	392	270
SAULT STE MARIE	113	187	70
MINNESOTA			
DULUTH	168	188	100
INTERNATIONAL FALLS	211	288	120
MINNEAPOLIS	371	596	373
ROCHESTER	279	488	306
ST CLOUD	283	417	272
MISSISSIPPI			
JACKSON	509	1391	1358
MERIDIAN	507	1357	1323
MISSOURI			
COLUMBIA REGIONAL	355	672	752
KANSAS CITY	498	921	839
ST JOSEPH	408	865	803
ST LOUIS	405	860	883
SPRINGFIELD	394	823	796
MONTANA			
BILLINGS	299	316	287
GLASCOW	263	297	255
GREAT FALLS	231	241	187
HAVRE	267	281	235
HELENA	154	155	143
KALISPELL	177	177	60
MILES CITY	373	442	434
MISSOULA	227	227	107
NEBRASKA			
GRAND ISLAND	373	582	621
LINCOLN	428	712	699
NORFORK	398	637	563
NORTH PLATTE	311	421	486
OMAHA	441	805	710
SCOTTSBLUFF	386	500	407
VALENTINE	400	564	443
NEVADA			
ELKO	212	227	194
ELY	120	122	114
LAS VEGAS	792	1642	1654
RENO	199	246	196
WINNEMUCCA	297	347	253
NEW HAMPSHIRE			
CONCORD	263	419	219
MT WASHINGTON OBS	0	0	0
NEW JERSEY			
ATLANTIC CITY	305	543	506
ATLANTIC CITY U	269	442	436
NEWARK	375	703	597
TRENTON U	343	658	577
NEW MEXICO			
ALBUQUERQUE	372	653	789
CLAYTON	210	376	452
ROSWELL	379	826	954
NEW YORK			
ALBANY	248	403	367
BINGHAMTON	251	429	230
BUFFALO	238	457	263
NEW YORK U	341	646	616
NEW YORK KENNEDY	319	514	484
NEW YORK LA GUARDIA	338	585	608
ROCHESTER	257	467	327
SYRACUSE	221	415	333
NORTH CAROLINA			
ASHEVILLE	237	454	512
CAPE HATTERAS R	398	942	812
CHARLOTTE	356	891	932
GREENSBORO	379	867	806
RALEIGH	337	772	820
WILMINGTON	469	1269	1128
NORTH DAKOTA			
BISMARCK	257	327	295
FARGO	308	411	289
WILLISTON	253	294	253
OHIO			
AKRON	250	503	385
CINCINNATI ABBE OB	349	797	714
CLEVELAND	206	468	372
COLUMBUS	320	699	497
DAYTON U	257	606	566
MANSFIELD	254	482	487
TOLEDO	197	448	417
YOUNGSTOWN	204	432	316
OKLAHOMA			
OKLAHOMA CITY	410	882	1057
TULSA	509	1086	1104
OREGON			
ASTORIA	5	6	8
BURNS U	230	241	165
EUGENE	135	163	125
MEDFORD	250	331	302
PENDLETON	423	538	375
PORTLAND	157	208	159
SALEM	109	126	118
SEXTON SUMMIT R	89	129	60
PACIFIC AREA			
GUAM TAGUAC R	422	2946	2875
JOHNSTON	457	2685	2803
KOROR R	493	3531	3472
KWAJALEIN	496	3637	3541
MAJURO	460	3294	3410
PAGO PAGO	452	3244	3138
PONAPE R	467	3449	3302
TRUK MOEN ISLAND	501	3552	3422
WAKE	530	2925	2982
YAP R	479	3326	3432
PENNSYLVANIA			
ALLENTOWN	279	512	476
ERIE	221	417	220
HARRISBURG	325	614	627
PHILADELPHIA	366	711	656
PITTSBURGH	248	445	401
SCRANTON	278	515	375
WILLIAMSPORT	231	393	429
RHODE ISLAND			
BLOCK ISLAND	217	261	174
PROVIDENCE	300	455	310
SOUTH CAROLINA			
CHARLESTON	449	1302	1201
CHARLESTON U	496	1408	1341
COLUMBIA	442	1259	1235
GRNVLLE-SPRTNBRG	363	883	932
SOUTH DAKOTA			
ABERDEEN	420	589	343
HURON	432	589	438
RAPID CITY	314	364	374
SIOUX FALLS	426	606	442
TENNESSEE			
BRISTOL	310	613	651
CHATTANOOGA	411	793	965
KNOXVILLE	397	902	932
MEMPHIS	507	1304	1207
NASHVILLE	424	1009	1002
OAK RIDGE	306	678	816
TEXAS			
ABILENE	462	1157	1424
AMARILLO	330	688	842
AUSTIN	536	1476	1650
BROWNSVILLE	548	2343	2233
CORPUS CHRISTI	606	2229	1973
DALLAS FT WORTH	580	1421	1437
DEL RIO	508	1707	2005
EL PASO	469	1165	1280
GALVESTON	586	1665	1647
HOUSTON INTERCON	514	1582	1637
LUBBOCK	332	871	1006
MIDLAND	404	1180	1307
PORT ARTHUR	516	1542	1585
SAN ANGELO	427	1219	1589
SAN ANTONIO	502	1464	1725
VICTORIA	597	1974	1777
WACO	533	1336	1610
WICHITA FALLS	529	1266	1486
UTAH			
MILFORD	260	297	386
SALT LAKE CITY	439	537	517
WENDOVER	511	679	647
VERMONT			
BURLINGTON	306	513	253
VIRGINIA			
LYNCHBURG	282	605	666
NORFORK	429	979	821
RICHMOND	346	766	805
ROANOKE	301	627	614
WALLOPS ISLAND	312	626	603
WASHINGTON			
OLYMPIA	45	49	60
QUILLAYUTE	5	5	8
SEATTLE	71	83	111
SEATTLE-TACOMA	108	129	76
SPOKANE	256	263	214
STAMPEDE PASS R	35	35	8
WALLA WALLA U	412	507	488
YAKIMA	314	376	295
WEST INDIES			
SAN JUAN P.R.	565	3196	2733
WEST VIRGINIA			
BECKLEY	145	289	298
CHARLESTON	291	609	648
ELKINS	114	209	244
HUNTINGTON	319	732	672
PARKERSBURG U	300	633	631
WISCONSIN			
GREEN BAY	221	383	240
LA CROSSE	306	568	434
MADISON	256	513	286
MILWAUKEE	230	358	255
WYOMING			
CASPER	254	270	259
CHEYENNE	90	97	194
LANDER	210	218	218
SHERIDAN	194	200	253

STORM SUMMARY

JULY 1975

STATE	TORNADOES					HAILSTORMS				WINDSTORMS				LIGHTNING				@HEAVY SNOWSTORMS AND BLIZZARDS				≠ ICE STORMS				ALL OTHER			
	NUMBER	DAYS	DEATHS	INJURIES	†DAMAGE	DEATHS	INJURIES	†DAMAGE PROPERTY	†DAMAGE CROPS	DEATHS	INJURIES	†DAMAGE PROPERTY	†DAMAGE CROPS	DEATHS	INJURIES	†DAMAGE PROPERTY	†DAMAGE CROPS	DEATHS	INJURIES	†DAMAGE PROPERTY	†DAMAGE CROPS	DEATHS	INJURIES	†DAMAGE PROPERTY	†DAMAGE CROPS	DEATHS	INJURIES	†DAMAGE PROPERTY	†DAMAGE CROPS
Alabama												4		1		4													C
Alaska *																													
Arizona									5		10	6	1			1	4											6	
Arkansas	2	1		2	4			[illegible]	5		2	1			1	[illegible]												3	
California *																													
Colorado	3	2						4	5			3	1	1	2	3												[illegible]	1
Connecticut	1	1			3			3							2													1	
Delaware	1	1								3		5				1										2		[illegible]	7
Florida	8	8		1	5							4		5	13	5												7	6
Georgia									1			1	3		2	[illegible]													
Hawaii *																													
Idaho							1	3	5		2	[illegible]	5	2	5	1												4	
Illinois	6	1	2	69	7			4	5			4	1			6													
Indiana	1	1							5			4				1													
Iowa												4	5	1		4													
Kansas									[illegible]																				
Kentucky								5	6			4	4			1	2												1
Louisiana	1	1			3			4	[illegible]			6	[illegible]		2	5												[illegible]	2
Maine	1	1			3							1				[illegible]													
Maryland & D.C.	6	1			5			5	6		3	6	1		2	[illegible]										3	9	[illegible]	6
Massachusetts	2	2			5										6	3												4	
Michigan	2	2			2			3	[illegible]	1		5	[illegible]	1	1	5													
Minnesota	1	1			4			3	5		5	6	4			4												8	[illegible]
Mississippi								[illegible]	[illegible]		2	5	[illegible]	1	8	1													
Missouri	1	1			3			3	2		1	4		2	1	3												6	
Montana								5	6			5	1		3													[illegible]	
Nebraska	5	2			5			1	5			1	5			4										1			
Nevada																										2		[illegible]	
New Hampshire												5				1													
New Jersey	2	1			7																					3		[illegible]	7
New Mexico	2	2												1	1													5	
New York								[illegible]	[illegible]	1	7	6	C	2	12	6	C											[illegible]	C
North Carolina	3	3		1	5			3	5			5	5	2	3	2	2												
North Dakota	1	3			[illegible]			[illegible]	[illegible]			[illegible]	[illegible]																
Ohio	1	1			5			1	1		1	5	C	2	2	4												4	
Oklahoma	1	1			4						10	5			6	4												5	1
Oregon											5	7	[illegible]															[illegible]	
Pacific *																													
Pennsylvania	2	2			4			1	4			6	3	2	6	5										[illegible]		6	2
Puerto Rico *																													
Rhode Island *																													
South Carolina	1	1			3			5	6			4	5			4												1	6
South Dakota	1	1			1			5	6		1	4	4			5	5												
Tennessee											2	5		1		5										[illegible]			
Texas	10	9			4			[illegible]	[illegible]			5	[illegible]	1	1														
Utah									5							1													1
Vermont											2	5	[illegible]			5	C											4	
Virginia	4	2			5			5	[illegible]		7	6	1	1	21	5													1
Virgin Islands *																													
Washington								4	5			4	1			5	5											5	1
West Virginia								4	6			3		2	5	3													
Wisconsin								[illegible]	[illegible]			4				5													
Wyoming	3	1			1			6	[illegible]			6	[illegible]			5	C											5	C

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GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

JULY 1975

Herbert J. Thompson, Office of Hydrology

The major flooding which began in June in the Red River of the North Basin reached its climax during July with record crests at eleven reporting stations. It was one of the most damaging floods ever to strike this area with damage in excess of $273 million. Major flooding occurred in New Jersey with damage of $85 million, and minor to serious flooding was reported along several Atlantic Coastal streams in the Southeastern States.

Significant flooding occurred in some portions of the Missouri Basin, in contrast to record low monthly rainfall totals in some other areas of the Basin. Record runoff in the upper portion of the Basin caused some main stem reservoirs to reach record high levels. Significant flooding also occurred in portions of the West Gulf of Mexico Drainage in Texas.

A major flash flood event occurred at Las Vegas, NV, with two lives lost and $6 million in damage. A number of other flash flood events were reported with extensive damage occurring in Arizona and the Snake River Basin of Idaho and Oregon. A record 12-hour rainfall at Monroe, LA, caused major urban flooding in that area.

These and other hydrologic events of unusual significance or involving loss of life or property are discussed in more detail below.

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	HUDSON BAY DRAINAGE		
Souris River Basin (North Dakota)	The flooding which began in April ended during July after reaching record stages around Minot during May. July rainfall amounts of 2.5 to 4 inches helped to prolong flooding along the lower Souris until the 16th.	0	N.A.
Red River of the North Basin	One of the most damaging floods ever to strike this area occurred during July as a result of the storm of June 27 to July 1 discussed in the June report. Additional rains of 1 to 3 inches on the 4th to 5th over a portion of the basin augmented the flooding at some downstream points and made upward revisions in forecasts necessary. On the tributary streams in the upper portion of the basin flooding began late in June but crests generally occurred in July and ranged up to the 15 feet over flood stage reported on the Buffalo River at Dilworth, MN, and the Wild Rice River at Hendrum, MN. Both were record crests. In the lower portion of the basin and on the main stem of the Red River flooding generally began early in July, and lasted most of the month on the lower Red River. Flooding was somewhat less severe in the lower portion of the basin although a record crest, 11 feet over flood stage, occurred on the South Fork of the Two Rivers at Lake Branson State Park, MN. Crests on the Red River ranged up to the 14.5 feet over flood stage reported at Halstad, MN - a record crest at this point. During this flood record crests occurred at 11 reporting stations as indicated in the flood data section. Most of the previous record stages occurred during the snowmelt flood of 1969. The 1975 flood was unique in that it was caused entirely by rainfall. Most floods in this basin result at least partly from snowmelt runoff. Preliminary results from Red Cross surveys indicate that 2,380 families suffered losses during this flood, with 7 homes and 33 mobile homes destroyed. Major damage occurred to 165 homes and 229 mobile homes and minor damage to 1,917 homes. Four deaths and seven injuries were attributable to the flooding.	4	273,434

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

JULY 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)

HUDSON BAY DRAINAGE-Cont'd

A total of 2,369,370 acres were flooded. Monetary damages reported by the Corps of Engineers are tabulated below by river basin. By far the most seriously affected was the Sheyenne River Basin in North Dakota.

Damage in Thousands of Dollars

River Basin	Crops	Other Agric.	Transportation	Urban	Total
North Dakota					
Wild Rice River	6,996	4,214	600		11,810
Antelope Creek	2,640	1,080	44		3,764
Sheyenne River	41,507	51,412	1,710	2,074	96,703
Maple River	7,091	8,966	530	485	17,072
Rush River	1,050	298	191		1,539
Park River	420	283			703
Lower Br. Rush River	1,369	393	100		1,862
Red River	5,484	1,783	970	2,357	10,594
State Total	66,557	68,429	4,145	4,916	144,047
Minnesota					
Buffalo River	13,395	12,772	345	589	27,101
So. Br. Wild Rice River	11,875	7,077	746	58	19,756
Wild Rice River	11,238	5,966	349		17,553
Sandhill River	320	600	45	31	996
Red Lake River	337	152	65	44	598
Snake River	2,334	1,274	32	80	3,720
Middle River	4,177	3,426	56		7,659
Tamarac River	3,615	1,838	23		5,476
Two Rivers River	3,752	2,277	33		6,062
Roseau River	15,966	8,511	212		24,689
Thief River	584	174	8		766
Lost & Ruffy Bank Rivers	210	10			220
Beltrami County	1,482	247	48		1,777
Itasca County			50		50
Lake of the Woods	238	34	52		324
Red River	8,577	2,789		1,274	12,640
State Total	78,100	47,147	2,064	2,076	129,387
Basin Total	144,657	115,576	6,209	6,992	273,434

ATLANTIC SLOPE DRAINAGE

Hudson River Basin	Two periods of flooding occurred along Wappingers Creek during July. Rainfall of at least 3 to 4 inches over the lower Hudson River basin on the 13th-14th and again on the 20th-21st caused crests 2.6 and 3.3 feet respectively over flood stage.	0	N.A.
Lower Delaware River Basin and New Jersey Coastal Drainage	Two periods of extremely heavy rainfall over central New Jersey during July caused record flooding in the area. During the period of the 13th-15th, a stationary front lying north-south through central Pennsylvania and a large high pressure area off the New England coast caused slow-moving thunderstorms over the area in the moist tropical air. Heaviest rainfall was in the Mercer-Somerset County areas of	5	85,000

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ATLANTIC SLOPE DRAINAGE-Cont'd		
	central New Jersey. The second highest stage of record occurred at Blackwells Mills on the Millstone River with mass evacuations in the area. Heavy rains caused extensive areas of farmland to flood with high crop loss. There were 6 flood deaths in New Jersey and 1 each in Pennsylvania and Delaware. Damage was considered minor in Pennsylvania but in New Jersey the damage was estimated at $55.7 million. Storm rainfall totals ranged up to nearly 12 inches with a number of reports in excess of 10 inches. The crest at Blackwells Mills was nearly 10 feet over flood stage and about 2 feet below the record stage of August 1971 which resulted from tropical storm Doria. From 3 to 4.5 feet of flooding was reported along the Raritan River in New Jersey and up to 3 feet of flooding occurred on Neshaminy, Perkiomen, and Brandywine Creeks in Pennsylvania. On the night of the 20th-21st a slow moving cold front set off numerous showers and thundershowers which again hit the Mercer-Somerset County area. Rains of up to 7 inches in 12 hours over already saturated soil caused record flooding along the whole length of the Assumpink Creek in Mercer County. Evacuation of 1200-1500 families was necessary in the city of Trenton. Flood waters halted all rail service along the Penn Central tracks for 24 hours, cancelling more than 100 commuter and long distance trains. Also closed due to flood water were large portions of U. S. Highways 1 and 130 in the Trenton area. Damage was confined mostly to the Trenton area with estimates of $25-30 million. There were no deaths. The crest at Trenton, 7.6 feet over flood stage, was more than a foot over the previous record stage of August 1971. Monthly rainfall totals in Mercer and Somerset Counties ranged from 13.39 inches at Trenton to 18.98 at Princeton and 19.65 inches at Blackwells Mills.		
Delaware and Maryland Streams	Moderate to severe river and flash flooding occurred in this bi-state area as a result of several intense thunderstorms during the period of the 10th-20th. On the afternoon of the 10th a small section of southeast Baltimore was inundated with damage estimated in excess of $1 million. Damage of $200,000 was reported in Montgomery County, MD, on the 15th. The U. S. Geological Survey reported record or near record crest stages on some smaller tributaries of the Nanticoke and Anacostia Rivers. Peak flows were of a 25 to 50 year frequency. A record stage occurred on Silver Lake in Dover, DE, and on the St. Jones River.	3	N.A.
James River Basin (Virginia)	The lower James Basin received above normal rainfall during July. Many stations reported monthly totals in excess of 10 inches. Richmond received 12.29 inches, more than twice normal. Heaviest rainfall occurred on the 11th-16th with storm totals of 5 to 8 inches common. About 2 feet of flooding occurred on the upper Appomattox River and the	0	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

JULY 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ATLANTIC SLOPE DRAINAGE-Cont'd		
	James River went slightly over flood stage at Richmond.		
Chowan, Roanoke, Tar, Neuse and Cape Fear River Basins	The highest stages for the year thus far occurred during July at a number of stations. Rainfall was well above normal. General rains of 0.5 to 1.5 inches occurred over eastern North Carolina on the 4th-5th with an isolated amount of 3.0 inches at McCullen, NC. Between the 9th and 12th amounts of 1.5 to 2.5 inches fell over the central and northeast portions of the state. Flooding began on the 14th with heavy rainfall of 2.5 to over 6 inches. On the Tar River crests ranged from about 2 to nearly 8 feet over flood stage. From 5 to 9 feet of flooding occurred along the Neuse River, and crests 10 to 17 feet over flood stage occurred on the middle reach of the Cape Fear River from Fayetteville to Elizabethtown, NC. Serious flooding was reported by the Corps of Engineers on the Nottoway and Meherrin Rivers in the Chowan Basin with 3 lives lost and $5 million in damage.	3	10,000
Coastal Basins in South Carolina and Georgia	Monthly rainfall amounts were generally much above normal during July, totaling more than 14 inches over some of the headwater areas. Heaviest rainfall occurred during the middle of the month with storm totals of as much as 9 to 11 inches over some areas. The most serious flooding occurred in the Pee Dee River Basin where tributary crests ranged up to 4 feet over flood stage and main stem crests from 6 to 8.5 feet over flood stage. Losses were estimated at $120,000 while savings from warnings were $150,000. On the lower Broad River a crest 3.3 feet over flood stage was reported at Blair, SC and losses were estimated at $7,000 with savings of $50,000. Extensive lowland flooding on the Congaree River below Columbia caused losses estimated at $10,000 with savings of $100,000. Lowland flooding also occurred on the lower Santee and lower Wateree with negligible losses and substantial savings from warnings. No stage reports are received from these areas but removal of cattle and equipment result in significant monetary savings. Total savings from flood warnings were estimated at $1,060,000 for these basins. Minor flooding occurred in the Edisto River Basin in South Carolina and on the lower Savannah River and portions of the Ogeechee River in Georgia.	0	137
	EAST GULF OF MEXICO DRAINAGE		
Gulf Coast Streams in the Florida Panhandle	A tropical depression which moved over land from the Gulf of Mexico near Gulfport, MS, produced widespread flooding throughout northwest Florida and into southern portions of Alabama. Heaviest rains totaling from 6 to 16 inches and falling from July 29th through August 1st affected a wide area eastward from coastal sections near Apalachicola, FL,	0	N.A.

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EAST GULF OF MEXICO DRAINAGE-Cont'd

across the Florida panhandle into south-central and southwestern Alabama. To the west amounts just exceeded 10 inches in the Mobile area before becoming substantially lighter through southern Mississippi. Northward, the heaviest precipitation penetrated into the lower tier of counties across southern Alabama. At Brewton, AL, which was hard hit by flooding in April, a total of almost 16 inches of rain was recorded during the 4-day period. Eight to 12 inch amounts were commonly spread from the lower Choctawhatchee Basin westward into Southwest Alabama.

In comparison to the rains and resulting floods of past April, these rains although of similar amount, extended over a much longer period of time. Rains also affected an area displaced farther south and westward than the earlier storm. The greatest problem from flooding was centered over the toe of the Florida panhandle and northward into Escambia County, AL, with the axis of heaviest accumulation having a north-south orientation.

Flood damages were highest again along Murder Creek in Brewton, AL, where authorities estimated up to $300,000 in public and private property loss. Fifty persons were evacuated in preparation for the rising flood with the crest of 16.7 feet arriving during the early morning of August 1st. As the crest arrived several businesses in East Brewton were flooded with water reaching depths of 3 to 4 feet. In the City of Brewton, about 10 buildings and homes were flooded to lesser depths. With a crest just 3 feet shy of the April peak, neither this flood nor the April flood has been equalled or exceeded since March 1929.

Just to the west of Brewton at Flomaton, AL, on the Big Escambia Creek, a crest of 15.2 feet on August 1st, lacked about one and half feet reaching the April flood height.

The Choctawhatchee River at Geneva, AL, rose to a crest of 26.04 feet on August 3. Precautions were taken to evacuate 10 families along Old Westville Road outside the levee's protection. Waters did not rise to a height which caused property damage although some low-lying roads were temporarily underwater as the crest arrived.

In northwest Florida many rivers and creeks remained out of their banks for several days with well above normal flows apparent at many downstream points continuing into mid-August. Significant flooding occurred along almost all drainages west of the Apalachicola River although total property damage fell well short of the April figures. Rivers and creeks such as the Yellow, Shoal, Alaqua, Blackwater, Coldwater, Escambia, and Perdido experienced the heaviest runoff. Flooding at some points along smaller rivers and creeks approached or exceeded all time record heights. The Alaqua Creek crested 3

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	EAST GULF OF MEXICO DRAINAGE-Cont'd		
	feet above any previously recorded height at 21.35 feet, midnight, July 31. In many cases forecasts were being provided for areas in northwest Florida not considered official forecast points and for which river gages were unavailable for reports or for the public to relate to.		
	Evacuations were required in the Crestview, FL, area when a small dam west of the city failed. No loss of life or property damage occurred although additional discharge into the lower Yellow River below Milligan did cause some flood damage to fishing camps and mobile homes downstream. A record crest occurred on the Shoal River near Crestview. Along the Blackwater River at Milton, FL, water rose to depths of 2 feet in portions of the downtown area and some campgrounds near the city were flooded.		
	July rainfall has established this as an exceedingly wet year for southern Alabama. By the first week in August several stations in south-central Alabama already were within a few inches of their maximum annual precipitation records.		
Coosa River Basin	On the night of the 6th-7th locally heavy rains of up to 6 inches caused flash flooding of rural roads in the vicinity of Anniston, AL, and caused two families to evacuate their homes.	0	N.A.
	UPPER MISSISSIPPI BASIN		
Crow, Whitewater and Zumbro River Basins	Serious flooding occurred along the Whitewater River in Winona County and the Zumbro River in Wabasha County of Minnesota during the early morning of the 5th. A narrow band of heavy thunderstorms lay from Red Wing, MN to near Winona, MN, for 5 hours. Rain totalled 6 inches at Millville; Elgin totalled 3.26; and Whitewater State Park 3.24. Other unofficial reports showed amounts in excess of 4 inches.	0	469
	Hardest hit was Elba, MN (for the second year in a row). A dike between Elba and nearby Whitewater State Park broke in four places sending six to seven feet of water through Elba. Damage to this area of northwestern Winona County totalled $469,000. Warnings provided time to evacuate 1400 holiday campers at Whitewater and Spring Creek Parks without death or injury. Resultant savings were put at $500,000. No reporting stations went over flood stage.		
	Minor flooding ended along the South Fork of the Crow River in east Central Minnesota as the river returned its banks on the 2d.		
	Between June 28 and July 2 heavy rains of near 7.5 inches at Bemidji, MN, to near 3 inches at Ft. Ripley, MN, in the Mississippi Headwaters produced near flood stage levels at Aitkin on the 4th and Ft. Rip-		

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GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

JULY 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	UPPER MISSISSIPPI BASIN-Cont'd		
	ley on the 6th.		
Skunk River Basin (Iowa)	The major flooding along the South Skunk River continued from June at Oskaloosa ending on July 4. A crest 4.5 feet over flood stage occurred there on the 2d. See the June report for details and estimates of damage.		See June report for lives lost and damage.
	MISSOURI BASIN		
Yellowstone River Basin	Peak flow from snowmelt occurred about 10 days later than normal and probably resulted from 1 to 2 inches of rain during the first week of July. While the crests were not unusually high, generally less than a foot over flood stage, the duration of the period above flood stage was unusually long. As a result there was much greater than normal soil loss from bank erosion. Pasture and cropland was destroyed as streams cut new channels. Some cropland was also flooded. Besides the main stem of the Yellowstone, the Boulder, Stillwater, and Clarks Fork tributaries also flooded. Several farmers reported loss of 5 to 10 acres of land. Losses were in excess of $100, 000. No significant damage occurred in urban areas.	0	100
James River	The flooding which began in May at Columbia and Stratford, SD continued through July with a second crest caused by the heavy rains of late June over the headwaters. The crests at Columbia and Stratford were higher than those of June and were 4.4 and 2.5 feet over flood stage, respectively.	0	N.A.
Plate River Basin	Several locally heavy thunderstorms caused flash or urban flooding in the headwaters of the South Platte River. Two of these were in the Denver, CO, area and one at Fort Collins, CO, with basement and street flooding. Other events of the nature occurred in rural areas. No details are available. On the 22d and 23d bankfull stages were reported along the length of the Wood River from rainfall discussed below. Lowland flooding occurred on Union Creek southwest of Madison, NE.	0	N.A.
Kansas River Basin	Heavy rains over central and south central Nebraska on the 22d caused flooding in the Little Blue River Basin. Amounts of 4.5 inches were reported near Holstein and 4.4 inches at Fairfield. A crest 3 feet over flood stage occurred at Deweese, NE. Flooding was reported in and around Hastings, NE, with roads including U. S. Highway 6 covered. The Union Pacific tracks were under water near Carlton. On the 30th and 31st heavy thundershowers produced rain which averaged 2.5 to 3 inches over the Sappa and Prairie Dog Creek Basins. Flooding was reported on Sappa Creek above Oberlin. This was the driest July of record at many stations in Kansas with records dating prior to 1900. Kansas	0	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

JULY 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	MISSOURI BASIN-Cont'd		
	City, MO, received only 0.25 inch of rain, which was the lowest July total since records began in 1888. The previous low July rainfall occurred in 1936.		
Missouri River Main Stem	Record May-July runoff occurred above the upstream reservoirs. Above Fort Peck Reservoir, runoff for the three-month period was 234 percent of normal, while above Garrison Reservoir in North Dakota runoff was 188 percent of normal and was 2.5 million acre-feet greater than any previously recorded since records began in the late 1800's. Storage behind the six reservoirs peaked out at a record-breaking 72,100,000 acre-feet on July 23 with record pool elevations in three of the reservoirs. At the time of peak storage there was still 2.5 million acre-feet of vacant flood control space in reserve. The record pool elevation in Garrison Reservoir caused a crest 4.8 feet over flood stage at Williston, ND, which is in the pool. Lowland flooding occurred in the vicinity of Williston but the town itself is protected by levees. High reservoir releases were necessary to maintain some flood control storage resulting in considerable lowland flooding, bank erosion, and land losses below Garrison, Fort Randall, and Gavins Point Dams. In Knox County, Nebraska, 400 acres of crops were flooded. The 60,000 c.f.s. discharge from Gavins Point were the highest controlled releases on record for that structure.	0	N.A.
	OHIO BASIN		
Ohio River Basin	Precipitation was generally well below normal over the upper portion of the basin in Pennsylvania, West Virginia, and eastern Ohio. In the lower portion of the basin about 3 inches of rain on the 19th-20th caused light flooding on the lower Embarras and the Little Miami Rivers. Serious flash flooding struck Fulton, KY, and South Fulton, TN, for the third time since March. More than 6 inches of rain fell over that area.		
	ARKANSAS BASIN		
Arkansas River Headwaters	Flash flooding from Sand Creek and urban flooding occurred in Colorado Springs, CO, on the 23d. This was caused by one to two inches of rain in about two hours.	0	N.A.
Lower Canadian River Basin	July rainfall totals averaged about 1.5 inches above normal with amounts of 3 to 6 inches on the 24th and 3 inches additional on the 30th. However, the only river flooding reported was on the Little River which crested 0.4 foot over flood stage at Tecumseh, OK, on the 25th. Urban flooding was reported in Oklahoma City on the 26th.	0	N.A.

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GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

JULY 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	RED BASIN		
Upper Red River Basin	July rainfall totals for southwest Oklahoma averaged 3.5 inches above normal with heaviest amounts of 4 to 6 inches on the 24th. Flooding occurred on the North Fork of the Red which crested 2.4 feet over flood stage at Headrick, OK, and on the upper Washita where a crest 3.3 feet over flood stage was reported at Carnegie, OK.	0	N.A.
Lower Red River Basin (Louisiana)	Record-breaking rainfall produced major urban flooding at Monroe on the 8th. During the 12 hour period from 9 p.m. on the 7th to 9 a.m. on the 8th rainfall exceeded 10 inches in some portions of Monroe with an unofficial report of 12.02 inches in northwest Monroe. Any amount over 8 inches would be a record 12-hour rainfall for the city. Several hundred homes and most streets and highways were flooded. Hundreds of motorists were stalled. The quarters of State Police Troop "F" were flooded. There were no deaths or injuries reported. This storm left rainfall of 4 to 5 inches over much of northwestern Louisiana. Urban flooding was also reported in the communities of Homer and Coushatta, and in Union Parish.	0	N.A.
	WEST GULF OF MEXICO DRAINAGE		
Atchafalaya River Basin	The flooding which began in February at Morgan City ended on July 4. On the 9th rainfall of 4 inches in 2 hours caused urban flooding in the Morgan City area. July rainfall totaled 17.59 inches at Morgan City where more than 45 inches fell during the three month May-July period.	0	N.A.
Trinity River Basin (Texas)	Heavy rains over the upper Trinity River Basin on the 25th-26th caused considerable flooding of tributaries in Dallas and Tarrant Counties. The drought-breaking storm dumped 8 inches on De Soto, a suburb of Dallas. The only major flooding was on the Little Fossil Creek where 26 homes had up to 3 feet of water in them. Damages to homes were estimated to be $156,000. In the Greater Dallas-Fort Worth area, 40 cars were damaged at an estimated cost of $8,000. Damages to roads and bridges were estimated at $10,000. Minor flooding occurred on the East Fork of the Trinity River at Crandall, and a crest 3.5 feet over flood stage occurred on the Trinity River at Dallas. These were the only reporting stations to go over flood stage. Flooding on the extreme lower Trinity which had been in progress since April ended on the 10th. A secondary crest 2.5 feet over flood stage on the 2d resulted from rains of 2 inches or more late in June.	0	174
Guadalupe, Nueces and Rio Grande Rivers (Texas)	Flooding on the lower Guadalupe which began late in May continued until the 15th with a secondary crest 4.5 feet over flood stage on the 3d. This crest resulted from rains of up to 4 inches or more late	0	N.A.

WEST GULF OF MEXICO DRAINAGE-Cont'd

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	in June. These rains also caused flooding on the lower Nueces which began on the 1st, with crests about 4 feet over flood stage at Tilden and Mathis Bridge. The Rio Grande Basin received heavy rainfall during July with some totals of 8 to 10 inches. The storm of the 17th-18th deposited at least 3 to 4 inches above Eagle Pass. Reports are scarce in this area and none are received from the Mexican side. The Rio Grande crested 16 feet over flood stage at Eagle Pass but 4 feet below flood stage downstream at Laredo.		

GULF OF CALIFORNIA DRAINAGE

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
Colorado River Basin (Nevada)	Major flash flooding occurred in Las Vegas on the 3d caused by at least 3 inches of rainfall over the mountains west of the city. The flood wave moved down the wash by Caesar's Palace destroying or damaging about 700 vehicles. Heaviest damage was reported in North Las Vegas, estimated at $3.5 million. Two employees of that city were drowned while driving across a flooded area. On the 29th flash flooding was reported along the Virgin River near Mesquite and considerable highway damage occurred near Caliente. Highway 93 was washed out in three places, and four culverts were washed out along the highway south of the town.	2	6,000
Colorado River Basin (Arizona)	Flash flooding occurred in Havasupai Canyon and Supai Village on the 8th with damage estimated at $50,000. On the 14th rainfall unofficially reported as 3.5 inches in 45 minutes caused flash flooding along Soldier and Mormon Washes in Oak Creek Canyon with roads, houses, and trailers flooded. Damage estimated at $510,000. Urban flooding was reported in southeast Maricopa County on the 16th and in Tucson on the 16th and 24th. Flash flooding was also reported on Sacramento Wash in Mohave County on the 26th and in northern Yuma County on the 30th, where a detention dam and dikes were destroyed on Centennial Wash near Weldon.	0	600

COLUMBIA RIVER BASIN

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
Snake River Basin	July was considerably warmer than normal over the Basin and thunderstorms were more intense and widespread. Rainfall associated with these storms was also heavier than usual and a number of flash flood events were reported. Major damage occurred in some areas but that due to flooding was not always	0	N.A.

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Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	COLUMBIA RIVER BASIN-Cont'd		
	separable from that caused by wind, rain, and landslides.		
	Stream flooding occurred along the Wallowa River at Enterprise, OR, from the 4th to the 12th. This resulted from thunderstorm rainfall and late melting of a heavier than normal snowpack over the Wallowa Mountains. Two inches of rain in 90 minutes was reported near Joseph, OR, on the 5th, which caused additional problems along Prairie Creek, a tributary of the Wallowa. No stage reports are received from that area. Wallowa County was declared a disaster area with damages estimated at $2.5 million. Affected by the flooding were 55 residences, 1500 acres of farmland, commercial buildings and transportation facilities.		
	Several flash flood events were reported in the Malheur River Basin in Oregon on the 12th. In the Westfall area flash flooding occurred along Bully Creek and a tributary, Clover Creek, where two bridges were destroyed, a third badly damaged, and a farm family lost a number of outbuildings, a car, and pickup truck. Losses were estimated at $750, 000, which also included damage to irrigation ditches and loss of baled hay as well as crops. In the Brogan area a farm family was forced to evacuate along Willow Creek, and Highway 26 was closed due to a bridge weakening. About 10 homes were flooded along Baxter Creek in the Jordan Valley.		
	Flash Flooding was reported along the Salmon River below Salmon in Lemhi County, Idaho, on the 14th and along the Rapid River, a tributary of the Little Salmon River, in Adams and Idaho Counties on the 11th. The Rapid River Fish Hatchery was inundated with considerable damage.		
	Urban flooding was reported in Moscow, ID, on the 16th. Flash Flooding caused extensive damage at Ontario, OR, and vicinity on the 29th and the Malad City, ID, interchange under construction on Interstate Highway 15 was damaged extensively by water from Maple Canyon on the 30th.		
	ALASKA		
Tenana River Basin	A series of heavy thunderstorms occurred over the Basin during the period of the 20th-23d. Amounts in excess of one inch in 24 hours were recorded at Fairbanks and 3 inches in 6 hours occurred over the Little Chena River tributary causing the stream to rise sharply to crest at 18.4 feet. The only flooding reported was along the Chisana River at Northway. Downstream the Tenana River crested 0.4 foot below the flood stage of 12 feet.	0	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

JULY 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)

PUERTO RICO

In general the month of July continued the relatively dry spell which has brought moderate to severe drought conditions to some north and south coastal zones and mild drought to the north and south slopes. For the most part, the interior higher level areas had near normal moisture conditions, especially for crop growth although the long term meteorological drought indices still indicated a persevering dry spell of moderate intensity. By the end of the month soil moisture deficiencies were near zero in the interior divisions but ranged upward to nearly six inches along the coastal plains. An easterly wave brought some heavier convective shower activity around the middle of the month with amounts as high as three to five inches in the higher cordilleras and two to three inches along the coasts. This same activity appeared again around the 20th. No significant flooding was reported but some street flooding occurred in the heavier urbanized areas of San Juan in the north and Ponce in south as well as Mayaguez on the west end of the island.

FLOOD STAGE DATA

(All dates in July unless otherwise specified)

River and station	Flood stage	Above flood stages – dates: From–	Above flood stages – dates: To–	Crest: Stage	Crest: Date
	Ft			Ft	
[illegible]					
Pee Dee-Cont'd:					
[illegible]	19	16	[illegible]	[illegible]	[illegible]
[illegible]					
[illegible]	[illegible]	[illegible]	16	[illegible]	[illegible]
[illegible]					
Wateree Reservoir, SC	[illegible]	16	[illegible]	[illegible]	[illegible]
[illegible]					
[illegible]	8	15 [illegible]	[illegible]	8.9 8.9	[illegible]
[illegible]					
Civhans Ferry, SC	10	[illegible]	[illegible]	[illegible]	[illegible]
Savannah:					
Clyo, GA	11	19	[illegible]	[illegible]	[illegible]
Ogeechee:					
Scarboro, GA	8	17	17	8.0	17
[illegible]	9	21	[illegible]	10.5	[illegible]
EAST GULF OF MEXICO DRAINAGE					
Apalachicola:					
Blountstown, FL	[illegible]	31	1	18.19	Aug [illegible]
Choctawhatchee:					
Geneva, AL	[illegible]	Aug 1	Aug 3	26.04	Aug 3
[illegible]	[illegible]	1	[illegible]	[illegible]	Aug 3
Shoal:					
Mossy Head, FL	[illegible]	[illegible]	[illegible]	22.71	31
Crestview, FL	[illegible]	[illegible]	[illegible]	15.58	Aug 1
[illegible]					
Milligan, FL	12	31	1/	[illegible].18	Aug 2
Big Coldwater:					
Milton, FL	[illegible]	[illegible]		[illegible]	Aug 1
Blackwater:					
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31
Murder Creek:					
[illegible]	8	[illegible]	[illegible]	16.7	Aug 1
Conecuh:					
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Aug 1
Escambia:					
[illegible]	[illegible]		[illegible]	15.2	Aug 1
Century, FL	[illegible]	[illegible] 1	Aug 12	22.04	Aug 1
Perdido:					
Barrineau Park, FL	[illegible]		[illegible]	19.41	Aug 1
Upper Mississippi Basin					
South Fork Crow River:					
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible] 1
South Skunk River:					
Oskaloosa, IA	[illegible]	Jun [illegible]	[illegible]	[illegible]	[illegible]
Illinois River:					
[illegible], IL	14	Jun [illegible]	[illegible]	15.2	Jun 28
Beardstown, IL	14	Jun [illegible]	[illegible]	14.9	Jun 28
Missouri Basin					
Gallatin River:					
Gallatin Gateway, MT	[illegible]	[illegible]	[illegible]	33.3	[illegible]
Logan, MT	[illegible]	[illegible]	9	8.43	[illegible]
[illegible]					
Big Timber, MT	7	3	10	[illegible]	[illegible]
Missouri Basin-Cont'd					
Stillwater River:					
[illegible], MT	6.5	3	4	6.85	6
Clarks Fork Yellowstone River					
Edgar, MT	8.5	4	9	8.70	7
Yellowstone River:					
Livingston, MT	8	3	6	8.1	6
Billings, MT	13	3	8	13.48	7
Miles City, MT	13	7	10	13.35	8
James River:					
Columbia, SD	11	May 4	1/	A15.4	13
Stratford, SD	14	8	1/	A16.5	28
Little Sioux River:					
Linn Grove, IA	12	Jun 20	2	16.3	Jun 26
Little Blue River:					
[illegible], NE	8	22	24	11.0	22
Fairbury, NE	10	[illegible]	24	10.3	23
Missouri River:					
Williston, ND	20	Jun 10	1/	[illegible].8	[illegible]
Ohio Basin					
Embarrass:					
Lawrenceville, IL	11	22	24	11.8	24
Little Wabash:					
[illegible], IL	16	[illegible]	23	#18.15	21
Arkansas Basin					
Little:					
Tecumseh, OK	11	25	26	11.4	25
Red River Basin					
North Fork Red:					
Headrick, OK	12	25	28	14.35	25
Washita:					
Clinton, OK	18	28	29	19.05	28
Carnegie, OK	18	25	29	21.34	27
WEST GULF OF MEXICO DRAINAGE					
Atchafalaya:					
Morgan City, LA	4	Feb 9	4	7.85	Apr 22
Mermentau:					
Mermentau, LA	5	13	15	5.2	14
Calcasieu:					
[illegible], LA	12	2	5	12.8	5
Neches:					
Diboll, TX (near)	10	8	11	A14.9	Feb 17
East Fork Trinity:					
Crandall, TX	13	E 27	2 27	U 13.26	U 27
Trinity:					
Dallas, TX	30	26	[illegible]	33.53	26
Moss Bluff, TX	4	Apr 9	10	[illegible]	2
Guadalupe:					
Dupont, TX	20	May 25 16	15 19	A24.5 20.8	3 17
Nueces:					
Tilden, TX	14	1	11	18.20	6
Mathis Bridge, TX	15	7	12	18.9	8
Callallen, TX	7	5	14	7.64	17

FLOOD STAGE DATA

[illegible]

River and station	Flood stage	—dates [illegible]	[illegible]	Stage	[illegible]
HUDSON BAY DRAINAGE					
Souris River:					
[illegible], ND	[illegible]	[illegible]	[illegible]	13.69	May 26
[illegible], ND	[illegible]	[illegible]	[illegible]	[illegible]	May 8
[illegible]:					
Mantador, ND	[illegible]	[illegible]	[illegible]	9.93	[illegible]
[illegible], ND	[illegible]	[illegible]	[illegible]	19.15	[illegible]
[illegible]:					
Enderlin, ND	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Mapleton, ND	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Sheyenne:					
[illegible], ND	[illegible]	[illegible]	[illegible]	19.07	[illegible]
[illegible], ND	[illegible]	1	[illegible]	[illegible]	[illegible]
[illegible], ND	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
South Branch Buffalo River:					
[illegible], MN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Buffalo River:					
[illegible], MN	[illegible]	[illegible]	[illegible]	10.60	[illegible]
[illegible], MN	[illegible]	[illegible]	[illegible]	27.00	[illegible]
Wild Rice River:					
[illegible], MN	[illegible]	[illegible]	[illegible]	11.44	[illegible]
[illegible], MN	[illegible]	[illegible]	[illegible]	32.06	[illegible]
Red Lake River:					
[illegible], MN	[illegible]	[illegible]	[illegible]	13.35	[illegible]
[illegible], MN	[illegible]	[illegible]	[illegible]	20.38	[illegible]
Snake River:					
[illegible], MN	[illegible]	[illegible]	[illegible]	849.87	[illegible]
Alvarado, MN	[illegible]		[illegible]	8.70	[illegible]
South Fork Two Rivers:					
Lake Bronson State Park, MN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Two Rivers River:					
Hallock, MN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Red River of the North:					
[illegible], ND	[illegible]			10.80	[illegible]
Fargo, ND	[illegible]	[illegible]	[illegible]	33.36	[illegible]
[illegible], MN	[illegible]	[illegible]	[illegible]	38.53	[illegible]
Grand Forks, ND	[illegible]	[illegible]	[illegible]	43.20	[illegible]
[illegible], ND	[illegible]	[illegible]	[illegible]	36.20	[illegible]
Drayton, ND	[illegible]	[illegible]	[illegible]	39.15	[illegible]
Pembina, ND	[illegible]	[illegible]	[illegible]	42.90	[illegible]
ATLANTIC SLOPE DRAINAGE					
Wappingers Creek:					
Wappingers Falls, NY	[illegible]	[illegible]	[illegible]	9.6 10.3	[illegible]
Ramapo:					
Mahwah, NJ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]:					
Boonton, NJ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]:					
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Millstone:					
Blackwells Mills, NJ	[illegible]	[illegible]	[illegible]	16.84 14.74	[illegible]
Raritan:					
Manville, NJ	[illegible]	[illegible]	[illegible]	15.37 15.24	[illegible]
Bound Brook, NJ	[illegible]	[illegible]	[illegible]	30.47 28.50	[illegible]
[illegible]					
Assunpink Creek:					
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	16.5	[illegible]
[illegible], NJ	[illegible]	[illegible]	[illegible]	11.71 14.61	[illegible]
Neshaminy Creek					
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Cooper:					
Haddonfield, NJ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]:					
Graterford, PA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Brandywine Creek:					
Chadds Ford, PA	[illegible]	[illegible]	[illegible]	11.54 9.60	[illegible]
[illegible]:					
Farmville, VA	[illegible]	[illegible]	[illegible]	17.83	[illegible]
[illegible], VA	[illegible]	[illegible]	[illegible]	23.30	[illegible]
Mattoaca, VA	[illegible]	[illegible]	[illegible]	10.15	[illegible]
[illegible]:					
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Dan:					
[illegible]	[illegible]	[illegible]	[illegible]	#11.4	[illegible]
[illegible], VA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]:					
Williamston, NC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Fishing Creek:					
Enfield, NC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Tar:					
Louisburg, NC	[illegible]	[illegible]	[illegible]	22.2	[illegible]
Rocky Mount, NC	[illegible]	[illegible]	[illegible]	12.2	[illegible]
Tarboro, NC	[illegible]	[illegible]	[illegible]	26.8	[illegible]
Greenville, NC	[illegible]	[illegible]	[illegible]	18.1	[illegible]
Neuse:					
Neuse, NC	[illegible]	[illegible]	[illegible]	#22.9	[illegible]
Smithfield, NC	[illegible]	[illegible]	[illegible]	21.9	[illegible]
Goldsboro, NC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Kingston, NC	[illegible]	[illegible]	[illegible]	18.9	[illegible]
[illegible]:					
Haw River, NC	[illegible]	14 15	[illegible]	#18.4 #20.7	[illegible]
Cape Fear:					
Moncure, NC	[illegible]	16	17	[illegible]	[illegible]
Fayetteville, NC	[illegible]	15	20	45.0	[illegible]
Huske Lock & Dam, NC	[illegible]	14	27	59.0	[illegible]
Elizabethtown, NC	[illegible]	15	28	31.8	[illegible]
[illegible], NC	[illegible]	20	[illegible]	[illegible]	[illegible]
Rocky:					
Norwood, NC	[illegible]	[illegible]	[illegible]	#19.0	[illegible]
Black Creek near Florence, SC	[illegible]	19	[illegible]	[illegible]	[illegible]
Lynches:					
Effingham, SC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Lumber:					
Lumberton, NC					
Little Pee Dee:					
Galivants Ferry, SC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Pee Dee:					
Cheraw, SC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Clemson University Library

FLOOD STAGE DATA

(All dates in July unless otherwise specified)

River and station	Flood stage	Above flood stages – dates From–	To–	Crest Stage	Date
	Ft			Ft	
WESTERN GULF OF MEXICO BASINS Cont'd					
Rio Grande:					
Eagle Pass, TX	16	18	20	31.6	19
ALASKA					
[illegible]					
Northway, AK	12	21	26	[illegible]	[illegible]

A See previous Monthly Reports for Additional Crest Information.

B In flood at beginning of Month
Date Unknown

River and station	Flood stage	Above flood stages – dates From–	To–	Crest Stage	Date
	Ft			Ft	

RAWINSONDE DATA

Average monthly values

JULY 1975

ALBANY, NY
1006 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s
SFC	31	86	19.2	17.5	22	1.8
1000	14	152	18.5	14.7	22	1.8
950	31	576	18.5	12.7	25	3.7
900	31	1,039	16.1	9.9	28	5.1
850	31	1,523	12.9	6.1	28	5.1
800	31	2,030	10.0	2.3	27	5.9
750	31	2,565	7.3	-1.1	27	6.9
700	31	3,130	4.3	-6.9	27	7.5
650	31	3,730	1.7	-11.3	26	8.8
600	31	4,371	-1.9	-15.1	26	9.6
550	30	5,058	-5.5	-19.0	26	9.7
500	30	5,799	-9.8	-24.7	26	11.0
450	29	6,639	-15.2	-29.2	26	12.1
400	29	7,489	-21.5	-35.4	25	12.7
350	29	8,452	-28.8	-42.0	25	13.4
300	29	9,543	-37.3	-48.2	25	14.7
250	29	10,776	-47.1		25	15.8
200	29	12,225	-55.3		25	14.8
175	29	13,073	-57.5		26	13.8
150	29	14,043	-58.7		25	11.6
125	29	15,186	-59.5		26	9.0
100	29	16,533	-59.1		26	6.1
80	28	17,990	-57.4		10	.7
70	28	18,836	-56.7		08	2.6
60	28	19,815	-55.7		09	4.9
50	28	20,981	-54.2		09	6.8
40	28	22,417	-52.7		09	9.3
30	27	24,288	-49.7		09	11.9
25	27	25,485	-48.2		09	13.3
20	26	26,961	-46.2		09	14.5
15	19	28,887	-43.0		08	15.6
10						
7						

ALBUQUERQUE, NM
841 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s
SFC	31	1,619	18.6	12.1	07	.5
1000						
950						
900						
850						
800	31	2,043	17.9	7.8	12	.6
750	31	2,592	14.6	5.0	15	1.0
700	31	3,172	10.7	1.9	05	.3
650	31	3,786	6.5	-1.6	03	1.4
600	31	4,438	1.8	-5.2	04	2.3
550	31	5,134	-2.9	-11.3	04	2.9
500	31	5,883	-7.7	-16.8	05	2.5
450	31	6,696	-12.4	-23.7	04	1.5
400	31	7,587	-17.6	-31.5	36	1.2
350	31	8,576	-24.7	-36.9	34	2.4
300	29	9,674	-33.1	-45.3	32	4.1
250	29	10,932	-43.1		32	6.3
200	29	12,395	-54.5		31	7.2
175	29	13,239	-60.3		31	6.8
150	29	14,188	-65.5		32	5.1
125	29	15,286	-69.5		03	3.0
100	29	16,617	-68.5		08	5.4
80	29	17,965	-64.6		09	8.0
70	29	18,785	-62.5		09	9.4
60	29	19,741	-60.5		09	11.1
50	29	20,884	-57.5		09	13.4
40	28	22,301	-55.4		09	14.6
30	28	24,152	-51.8		09	15.1
25	28	25,339	-50.1		09	17.6
20	24	26,804	-47.6		09	18.6
15	17	28,729	-44.5		09	20.2
10	11	31,456	-40.8			
7						

AMARILLO, TX
893 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s
SFC	31	1,095	18.6	15.8	20	2.5
1000						
950						
900						
850	31	1,519	18.8	13.2	21	5.8
800	31	2,038	16.1	10.1	22	4.5
750	31	2,585	12.8	6.7	23	2.3
700	31	3,161	8.9	3.5	25	.9
650	31	3,772	5.3	-1.0	02	.8
600	31	4,422	1.4	-6.7	04	.7
550	31	5,118	-2.6	-12.1	02	.8
500	31	5,868	-7.1	-18.0	04	1.2
450	31	6,683	-12.1	-23.0	01	.7
400	31	7,574	-17.7	-31.7	35	1.1
350	31	8,563	-24.8	-37.3	34	2.5
300	31	9,662	-33.4	-45.4	33	3.3
250	31	10,916	-43.5		32	4.5
200	31	12,379	-54.8		32	5.3
175	31	13,223	-60.1		33	4.6
150	31	14,173	-64.9		35	5.1
125	31	15,275	-68.3		02	5.0
100	31	16,613	-68.1		06	5.5
80	31	17,945	-64.4		08	8.4
70	31	18,786	-62.5		08	9.6
60	31	19,743	-60.2		09	10.7
50	31	20,887	-57.4		09	12.4
40	31	22,304	-55.3		09	13.6
30	31	24,153	-52.0		09	16.5
25	31	25,340	-49.9		09	18.3
20	29	26,811	-46.9		09	19.2
15	27	28,730	-44.2		09	20.4
10	12	31,474	-40.4			
7						

* ANCHORAGE, AK
1009 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s
SFC	31	45	12.8	8.7	17	2.4
1000	29	126	13.4	7.4	18	2.6
950	31	551	11.7	5.5	18	2.5
900	31	1,001	9.1	4.1	17	1.4
850	31	1,473	5.9	2.2	14	1.4
800	31	1,967	3.2	-.7	13	2.2
750	31	2,488	.5	-5.6	13	2.3
700	31	3,040	-1.8	-10.0	12	1.9
650	31	3,627	-4.7	-14.5	12	2.2
600	31	4,252	-8.5	-18.4	12	1.8
550	31	4,922	-12.8	-22.2	11	2.3
500	31	5,642	-17.8	-28.3	10	2.6
450	31	6,422	-22.9	-34.1	08	2.5
400	31	7,275	-29.1	-38.7	08	2.9
350	31	8,218	-36.5	-44.2	09	3.6
300	31	9,266	-44.4		09	2.4
250	31	10,469	-50.9		08	.8
200	31	11,921	-49.2		28	1.9
175	30	12,790	-48.1		25	1.0
150	30	13,807	-48.1		23	1.1
125	30	15,009	-48.3		22	1.7
100	30	16,479	-48.4		18	1.4
80	30	17,949	-48.1		16	1.6
70	30	18,831	-47.8		13	1.5
60	30	19,849	-47.4		13	2.1
50	29	21,053	-47.1		11	3.1
40	29	22,532	-46.6		10	3.6
30	28	24,450	-45.3		09	5.4
25	28	25,670	-44.0		09	6.4
20	28	27,174	-42.3		09	8.1
15	26	29,130	-39.7		09	10.0
10	19	31,960	-34.9		09	13.0
7	10	34,522	-30.7			

* ANNETTE, AK
1013 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s
SFC	31	37	10.9	9.3	16	1.1
1000	31	144	11.1	9.0	16	1.5
950	31	572	9.5	7.2	17	2.9
900	31	1,020	7.6	4.9	17	4.3
850	31	1,489	5.2	1.8	18	5.0
800	31	1,983	2.6	-2.8	18	5.3
750	31	2,503	.5	-6.7	19	5.1
700	31	3,054	-2.3	-10.6	20	5.1
650	31	3,640	-5.5	-15.7	21	6.1
600	31	4,264	-9.0	-20.1	21	7.2
550	31	4,932	-13.1	-24.7	21	8.2
500	31	5,652	-17.6	-28.3	21	8.7
450	31	6,432	-23.1	-33.4	22	9.5
400	31	7,284	-29.2	-40.0	22	11.0
350	31	8,226	-36.1	-45.4	22	12.9
300	31	9,278	-43.6	-50.5	22	13.7
250	31	10,486	-49.5		23	12.7
200	31	11,947	-49.4		23	9.5
175	31	12,822	-49.2		23	8.8
150	31	13,832	-49.9		23	7.0
125	31	15,022	-50.9		22	5.3
100	31	16,472	-51.4		21	3.6
80	31	17,921	-51.4		17	2.4
70	31	18,789	-51.4		15	2.2
60	30	19,793	-51.1		13	2.7
50	30	20,981	-50.6		11	3.4
40	29	22,438	-49.3		10	4.4
30	29	24,332	-47.5		09	6.0
25	29	25,541	-46.4		09	7.3
20	27	27,029	-44.8		09	9.0
15	25	28,963	-42.1		09	10.4
10	23	31,735	-37.8		09	14.1
7	6	34,239	-34.1			

ATHENS, GA
988 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s
SFC	31	246	21.2	20.2	22	.1
1000						
950	31	586	20.7	17.7	26	1.4
900	31	1,053	18.7	14.8	27	1.6
850	31	1,542	15.6	11.3	27	1.9
800	31	2,055	12.9	7.1	27	2.1
750	31	2,595	9.6	4.1	26	2.6
700	31	3,165	6.2	-1.9	25	3.0
650	31	3,770	3.2	-5.5	25	3.1
600	31	4,415	-.3	-10.6	25	3.7
550	31	5,107	-3.8	-16.0	26	3.9
500	31	5,853	-8.3	-21.4	26	4.1
450	31	6,664	-13.2	-25.5	26	4.7
400	31	7,551	-19.2	-31.0	27	5.6
350	31	8,533	-26.3	-37.5	27	6.6
300	31	9,626	-34.8	-46.4	27	8.0
250	31	10,873	-44.5		28	9.6
200	31	12,330	-55.8		29	11.9
175	31	13,170	-61.0		30	11.6
150	31	14,119	-64.7		30	6.6
125	31	15,226	-67.0		29	2.9
100	31	16,577	-65.6		05	1.9
80	31	17,940	-63.5		07	5.3
70	31	18,764	-62.0		08	7.7
60	31	19,721	-60.3		08	10.5
50	31	20,865	-57.6		09	13.3
40	31	22,283	-55.1		09	14.0
30	31	24,138	-51.2		09	14.7
25	30	25,324	-49.9		09	16.8
20	30	26,788	-48.4		09	17.4
15	27	28,688	-45.8		08	21.8
10	14	31,400	-40.7		09	26.3

* BARROW, AK
1013 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s
SFC	17	8	2.8	2.0	12	.6
1000	16	115	3.7	2.6	24	1.2
950	17	528	6.5	2.8	23	3.4
900	17	972	6.1	.3	24	5.4
850	17	1,439	4.8	-2.6	24	6.9
800	17	1,932	2.9	-4.7	25	8.0
750	17	2,454	.9	-8.8	25	8.8
700	16	3,008	-1.9	-12.8	25	8.9
650	16	3,594	-5.2	-14.3	25	9.6
600	16	4,218	-9.1	-20.1	25	10.6
550	16	4,887	-12.9	-23.5	25	11.4
500	16	5,608	-17.2	-27.1	25	12.0
450	16	6,390	-22.4	-32.3	25	12.2
400	16	7,243	-28.9	-37.5	25	13.5
350	16	8,189	-35.7	-41.6	25	12.9
300	16	9,240	-43.8		25	13.8
250	16	10,446	-50.3		25	15.4
200	16	11,900	-48.5		25	11.8
175	16	12,784	-46.4		25	10.3
150	16	13,810	-45.8		24	7.8
125	16	15,023	-45.6		25	6.2
100	15	16,522	-45.5		23	4.2
80	15	18,010	-45.5		26	2.9
70	15	18,901	-45.1		22	1.7
60	15	19,933	-44.4		20	1.2
50	15	21,156	-44.1		18	1.1
40	15	22,655	-43.7		10	1.3
30	15	24,595	-42.2		08	2.9
25	15	25,833	-40.5		09	4.1
20	12	27,366	-38.6		09	5.9
15						
10						

BARTER ISLAND, AK
1011 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s
SFC	31	15	3.1	2.5	06	.9
1000	30	107	4.9	3.6	03	.6
950	31	525	6.9	3.0	27	.9
900	31	970	6.7	-.3	28	2.9
850	31	1,436	5.2	-2.7	27	4.6
800	31	1,931	2.9	-4.2	27	5.4
750	31	2,452	.2	-7.2	27	5.8
700	31	3,002	-2.7	-10.2	27	6.7
650	31	3,587	-5.9	-13.4	27	7.5
600	31	4,210	-9.9	-17.5	27	8.5
550	31	4,876	-13.8	-22.2	27	9.6
500	31	5,594	-18.5	-28.4	27	10.2
450	31	6,372	-24.1	-33.6	27	11.2
400	31	7,220	-30.2	-40.4	27	11.8
350	31	8,159	-37.3	-45.1	28	12.9
300	31	9,204	-45.0		27	12.8
250	31	10,405	-50.6		28	13.3
200	31	11,863	-48.5		28	10.4
175	31	12,746	-46.1		27	8.3
150	31	13,770	-46.2		28	5.8
125	31	14,983	-46.0		27	4.8
100	31	16,469	-45.6		28	3.1
80	30	17,956	-45.4		30	1.4
70	30	18,848	-44.9		29	1.0
60	30	19,880	-44.5		02	.2
50	30	21,103	-43.8		05	1.2
40	30	22,603	-43.5		08	2.8
30	30	24,544	-42.1		08	4.5
25	30	25,781	-40.7		08	5.2
20	29	27,308	-39.0		09	6.7
15	26	29,295	-36.4		09	7.0
10	14	32,140	-31.1		09	7.4

BETHEL, AK
1007 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s
SFC	30	39	11.0	9.4	23	2.1
1000	26	110	11.4	9.3	22	2.5
950	30	528	11.2	7.4	20	2.3
900	30	979	9.0	5.6	19	3.3
850	30	1,451	6.5	2.4	18	2.8
800	30	1,947	4.0	-.3	16	2.2
750	30	2,469	1.3	-4.4	17	2.3
700	30	3,022	-1.6	-9.5	16	2.1
650	29	3,612	-4.5	-14.6	15	1.8
600	29	4,238	-8.1	-18.6	16	2.6
550	29	4,908	-12.3	-23.6	17	2.9
500	29	5,631	-17.0	-26.6	17	3.0
450	29	6,413	-22.5	-30.9	16	2.9
400	29	7,267	-28.8	-37.1	17	2.8
350	29	8,211	-36.1	-42.7	15	2.6
300	29	9,259	-44.6		16	2.9
250	29	10,459	-51.8		19	2.9
200	29	11,906	-50.3		21	3.3
175	29	12,781	-48.7		20	3.5
150	29	13,796	-48.4		21	3.1
125	29	14,996	-48.6		19	2.6
100	29	16,465	-48.3		20	2.2
80	29	17,935	-48.1		16	2.0
70	29	18,817	-47.8		14	1.9
60	29	19,834	-47.8		13	2.3
50	29	21,039	-47.4		12	2.7
40	29	22,516	-46.9		11	4.0
30	26	24,424	-45.4		09	5.0
25	23	25,651	-44.1		09	6.4
20	22	27,144	-42.6		09	7.0
15	14	29,119	-39.6		09	8.7
10						

* BISMARCK, ND
954 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s
SFC	31	503	16.4	12.3	14	.6
1000						
950	23	560	16.6	12.8	07	.6
900	31	1,004	20.7	9.4	23	1.9
850	31	1,498	19.0	5.5	27	3.1
800	31	2,016	15.9	2.7	27	4.3
750	31	2,560	11.9	-.5	28	5.6
700	31	3,133	7.9	-5.4	29	6.5
650	31	3,740	4.2	-11.1	29	7.4
600	31	4,387	.1	-15.2	29	8.0
550	31	5,078	-4.4	-19.8	29	9.0
500	31	5,822	-9.5	-24.6	29	9.7
450	30	6,628	-14.6	-29.4	29	10.9
400	30	7,509	-20.9	-35.3	29	12.8
350	30	8,484	-28.2	-41.3	29	14.1
300	30	9,568	-36.7	-48.0	30	16.0
250	30	10,806	-46.2		30	18.7
200	30	12,260	-54.3		30	18.8
175	29	13,112	-57.1		30	16.6
150	29	14,083	-59.0		30	14.4
125	29	15,222	-60.1		30	11.1
100	29	16,615	-59.6		31	6.1
80	29	18,016	-58.4		36	2.6
70	29	18,859	-57.0		04	2.8
60	28	19,838	-55.7		06	4.4
50	28	21,005	-53.6		07	5.3
40	28	22,447	-51.8		08	6.5
30	27	24,321	-49.4		08	9.4
25	26	25,523	-47.7		08	10.1
20	25	27,004	-45.3		08	11.6
15	22	28,933	-42.3		08	13.4
10	10	31,709	-38.9			

BOISE, ID
913 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s
SFC	31	874	18.9	10.1	15	1.4
1000						
950						
900	31	978	20.9	8.9	14	1.1
850	31	1,493	21.2	5.0	35	.7
800	31	2,016	18.5	1.2	28	.7
750	31	2,566	14.6	.1	21	1.8
700	31	3,144	10.1	-2.7	22	3.9
650	31	3,755	5.4	-5.3	21	6.2
600	31	4,404	.3	-9.6	22	8.2
550	31	5,095	-5.0	-14.9	22	9.8
500	31	5,837	-10.3	-20.3	22	10.2
450	31	6,641	-15.3	-27.3	22	10.6
400	31	7,521	-21.3	-34.8	22	11.7
350	31	8,495	-28.5	-41.3	22	14.1
300	31	9,578	-36.8	-47.8	22	17.2
250	31	10,817	-45.5		22	19.8
200	31	12,277	-53.5		23	19.7
175	31	13,130	-56.9		23	17.7
150	31	14,098	-60.2		23	12.9
125	31	15,228	-62.7		23	8.3
100	30	16,603	-62.2		21	4.1
80	30	17,987	-60.5		14	2.7
70	30	18,822	-59.2		11	3.5
60	30	19,792	-57.7		09	5.1
50	30	20,949	-55.2		09	7.4
40	30	22,379	-53.5		09	8.9
30	29	24,243	-50.5		09	11.4
25	29	25,438	-48.7		09	12.8
20	28	26,912	-46.4		09	13.9
15	28	28,832	-43.8		09	15.7
10	17	31,564	-40.3		09	19.0

BOOTHVILLE, LA
1015 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s
SFC	31	1	25.7	23.7	27	.8
1000	31	137	25.9	23.0	27	.5
950	31	589	23.1	19.6	26	3.0
900	31	1,060	20.1	15.0	25	2.4
850	31	1,551	17.0	10.9	26	1.8
800	31	2,067	14.0	8.4	26	1.6
750	31	2,609	11.0	5.9	27	1.9
700	31	3,182	7.6	1.8	28	1.8
650	31	3,790	4.1	-2.5	28	1.6
600	31	4,437	.3	-7.3	30	1.3
550	31	5,131	-3.5	-12.4	32	1.9
500	31	5,879	-7.6	-17.8	34	2.1
450	31	6,692	-12.4	-22.6	35	2.3
400	31	7,582	-18.2	-28.9	34	2.6
350	31	8,570	-24.9	-36.0	36	1.7
300	31	9,669	-33.3	-44.8	36	2.0
250	31	10,923	-43.7		36	2.9
200	31	12,383	-55.8		36	4.4
175	31	13,221	-62.1		01	4.7
150	31	14,159	-68.2		03	4.5
125	31	15,246	-70.4		05	4.0
100	31	16,575	-69.3		08	5.8
80	31	17,919	-66.0		08	8.2
70	31	18,733	-64.2		08	11.6
60	31	19,682	-61.9		08	13.6
50	31	20,819	-58.8		09	16.5
40	29	22,230	-56.4		09	18.5
30	29	24,070	-53.1		09	19.5
25	27	25,249	-51.2		09	21.3
20	25	26,709	-48.3		08	22.3
15	19	28,617	-46.7		08	24.1
10	12	31,329	-41.9			

* BROWNSVILLE, TX
1013 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s
SFC	31	7	24.3	22.5	14	1.5
1000	31	123	25.8	23.6	16	3.6
950	31	575	23.2	19.8	16	8.5
900	31	1,046	21.0	14.3	16	8.4
850	31	1,539	18.2	8.7	16	7.5
800	31	2,057	15.2	5.2	16	6.7
750	31	2,601	12.1	1.7	15	5.8
700	31	3,176	8.5	-.4	15	5.2
650	31	3,785	4.9	-5.1	13	4.3
600	31	4,433	1.0	-8.9	13	3.6
550	31	5,128	-2.8	-13.9	12	2.8
500	30	5,880	-7.2	-19.6	10	2.7
450	30	6,693	-12.3	-24.5	08	3.4
400	30	7,584	-18.1	-29.9	08	4.3
350	30	8,571	-25.1	-36.4	08	4.7
300	30	9,670	-33.6	-45.6	08	5.2
250	30	10,922	-43.9		08	6.1
200	28	12,385	-56.0		08	6.8
175	28	13,222	-62.5		07	7.7
150	28	14,158	-68.7		07	7.0
125	27	15,238	-72.1		06	8.2
100	27	16,556	-70.9		08	9.7
80	27	17,893	-66.9		09	11.2
70	26	18,704	-65.1		09	12.2
60	25	19,650	-62.9		08	14.8
50	25	20,781	-60.1		09	17.6
40	23	22,185	-56.5		09	20.1
30	22	24,022	-53.7		09	20.9
25	21	25,205	-51.2		09	21.2
20	19	26,668	-48.3		09	20.1
15	16	28,595	-44.8		08	23.8
10						

BUFFALO, NY
990 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s
SFC	31	218	18.6	16.0	19	2.1
1000						
950	31	575	19.2	11.3	24	4.5
900	31	1,038	16.3	9.1	26	4.8
850	31	1,522	13.0	6.6	26	5.2
800	31	2,030	10.3	1.3	27	6.3
750	31	2,565	7.8	-3.9	27	7.3
700	31	3,130	4.5	-8.0	27	8.3
650	31	3,730	1.3	-12.5	27	8.3
600	31	4,371	-2.0	-17.8	27	9.4
550	31	5,057	-6.0	-20.8	27	10.0
500	31	5,797	-10.7	-25.0	26	10.1
450	30	6,596	-16.0	-30.1	26	11.1
400	29	7,472	-22.7	-35.4	26	11.6
350	29	8,441	-29.8	-42.4	26	12.9
300	29	9,518	-38.1	-46.9	25	14.8
250	28	10,742	-47.0		25	15.7
200	28	12,193	-54.6		26	16.1
175	28	13,045	-56.0		26	14.4
150	28	14,024	-56.9		27	11.0
125	28	15,174	-58.6		27	9.0
100	28	16,578	-58.0		27	5.3
80	28	17,986	-57.3		24	.8
70	28	18,833	-56.3		10	2.1
60	28	19,816	-54.9		09	4.6
50	28	20,985	-53.4		09	7.3
40	28	22,426	-51.6		09	8.6
30	28	24,308	-48.3		08	11.3
25	26	25,512	-47.0		09	12.0
20	24	27,000	-44.7		09	14.8
15	16	28,940	-41.6		09	17.3
10						

CAPE HATTERAS, NC
1019 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s
SFC	21	4	24.1	22.3	21	1.8
1000	21	165	24.5	21.5	20	3.2
950	21	614	21.4	18.8	21	4.3
900	21	1,082	18.6	14.3	21	3.6
850	21	1,571	15.7	11.2	21	3.0
800	21	2,084	13.2	5.8	21	3.5
750	21	2,625	10.4	1.8	22	3.6
700	21	3,197	7.4	-3.2	23	4.1
650	21	3,804	4.2	-7.5	23	4.9
600	21	4,451	.3	-13.2	22	5.4
550	21	5,143	-3.6	-18.2	22	5.3
500	21	5,890	-8.2	-24.1	22	5.3
450	21	6,700	-13.1	-29.3	22	4.7
400	21	7,587	-19.5	-34.3	23	4.1
350	21	8,570	-26.4	-39.7	25	3.2
300	21	9,662	-34.8	-46.8	30	3.2
250	20	10,903	-45.0		32	5.1
200	20	12,358	-55.9		32	7.0
175	20	13,198	-60.5		32	4.8
150	20	14,150	-64.0		31	3.3
125	20	15,261	-66.3		30	1.2
100	20	16,618	-64.9		08	2.3
80	20	17,986	-62.6		08	5.2
70	20	18,813	-60.9		08	7.8
60	20	19,776	-59.0		08	9.7
50	20	20,925	-57.1		08	13.1
40	20	22,340	-54.5		09	16.0
30	20	24,205	-50.6		09	[illegible]
25	18	25,402	-48.3		09	17.0
20	17	26,881	-46.2		09	18.5
15	16	28,807	-43.8		09	22.0
10						

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RAWINSONDE DATA

Average monthly values

JULY 1975

• CARIBOU, ME
991 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	191	17.3	15.4	21	2.3
950	31	548	17.3	11.2	25	4.7
900	31	1,039	15.3	7.8	26	5.7
850	31	1,492	12.2	6.6	26	6.8
800	31	1,998	9.1	3.0	25	7.9
750	31	2,530	6.2	-1.6	26	8.8
700	31	3,094	3.5	-6.9	26	10.0
650	31	3,692	.4	-10.6	26	11.2
600	31	4,330	-2.9	-14.3	26	11.9
550	31	5,015	-7.0	-18.7	26	13.1
500	31	5,752	-11.6	-23.9	26	13.0
450	31	6,552	-16.6	-29.7	25	13.5
400	30	7,426	-22.8	-36.2	26	13.9
350	30	8,394	-29.9	-41.2	26	14.1
300	30	9,471	-38.3	-47.9	25	15.2
250	30	10,701	-47.5		25	16.2
200	30	12,152	-54.2		26	16.1
175	30	13,005	-55.7		26	15.1
150	30	13,984	-56.7		26	12.9
125	29	15,140	-56.9		26	9.9
100	29	16,555	-56.4		27	5.2
80	28	17,972	-55.1		24	1.9
70	28	18,826	-54.6		16	1.0
60	28	19,815	-53.5		11	2.3
50	27	20,992	-52.1		09	4.1
40	26	22,440	-50.7		09	6.0
30	24	24,325	-48.6		09	8.8
25	23	25,526	-47.2		09	10.8
20	20	27,019	-44.7		09	12.0
15	16	28,959	-42.0		09	15.5

CENTREVILLE, AL
1000 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	140	21.0	20.3	06	.3
1000	16	163	21.5	20.7	06	.5
950	31	588	22.4	17.9	21	.4
900	31	1,057	19.4	14.9	23	1.1
850	31	1,548	16.1	11.9	25	1.5
800	31	2,062	13.2	8.2	26	2.3
750	31	2,603	10.2	4.8	27	2.8
700	31	3,174	6.8	-.5	28	2.6
650	31	3,780	3.4	-3.6	28	2.9
600	31	4,426	.0	-10.0	29	4.0
550	31	5,118	-3.6	-16.9	30	3.5
500	31	5,865	-7.9	-21.3	29	3.0
450	31	6,677	-12.9	-26.6	29	3.0
400	31	7,565	-18.8	-33.5	29	4.0
350	31	8,549	-25.7	-38.9	29	4.9
300	30	9,645	-34.0	-45.5	28	7.2
250	29	10,892	-44.0		29	8.6
200	29	12,352	-55.7		30	10.1
175	29	13,191	-61.4		30	10.5
150	28	14,137	-66.3		31	6.3
125	28	15,234	-68.3		34	2.2
100	26	16,580	-67.3		06	3.2
80	26	17,934	-64.6		08	7.0
70	26	18,754	-62.9		08	9.4
60	26	19,709	-60.5		08	12.1
50	26	20,852	-57.9		09	14.3
40	26	22,269	-55.0		09	16.1
30	26	24,123	-51.7		09	15.8
25	26	25,308	-50.8		09	16.8
20	24	26,771	-49.0		09	19.8
15	22	28,675	-45.7		09	23.4
10	13	31,403	-40.6		10	25.5

CHARLESTON, SC
1015 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	13	22.6	20.6	25	.4
1000	31	145	23.5	20.9	23	1.1
950	31	594	21.7	17.6	24	2.9
900	31	1,062	19.0	14.7	23	2.8
850	31	1,552	15.8	11.9	23	2.9
800	31	2,065	13.0	8.2	23	3.5
750	31	2,606	10.1	4.6	24	4.1
700	31	3,177	7.0	-.2	24	4.3
650	31	3,784	3.7	-4.8	24	4.3
600	31	4,430	.3	-10.5	24	4.2
550	31	5,123	-3.3	-15.3	24	4.0
500	31	5,871	-7.6	-20.4	24	3.4
450	31	6,684	-12.6	-25.6	24	4.0
400	31	7,573	-18.5	-30.5	25	3.6
350	31	8,559	-25.7	-36.2	26	4.2
300	31	9,654	-34.2	-44.8	28	4.5
250	30	10,902	-44.4		28	5.5
200	30	12,359	-56.0		30	8.5
175	30	13,197	-61.5		31	9.1
150	30	14,143	-65.3		32	5.3
125	30	15,247	-67.4		33	1.4
100	30	16,595	-66.2		07	2.5
80	30	17,956	-63.8		08	5.7
70	30	18,779	-62.0		08	8.8
60	30	19,737	-60.0		09	11.6
50	30	20,883	-57.1		09	14.7
40	29	22,303	-54.8		09	17.3
30	29	24,159	-50.8		09	18.0
25	26	25,353	-49.1		10	17.3
20	23	26,828	-47.1		09	18.5
15	20	28,746	-44.6		09	21.8
10	10	31,462	-41.5		09	25.4

CHATHAM, MA
1014 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	16	18.7	17.3	22	3.0
1000	31	139	19.7	16.6	23	4.3
950	31	582	19.4	13.3	24	6.2
900	31	1,046	17.1	10.5	24	6.1
850	31	1,532	14.4	5.9	24	6.5
800	31	2,043	12.0	.8	25	6.7
750	31	2,581	9.2	-3.2	25	7.2
700	31	3,149	5.7	-7.0	25	7.9
650	31	3,752	2.4	-12.1	25	8.4
600	31	4,395	-.9	-16.9	26	10.0
550	31	5,084	-4.9	-20.6	25	10.4
500	31	5,827	-9.3	-26.5	25	10.7
450	31	6,634	-14.9	-30.8	25	10.7
400	31	7,514	-21.3	-36.6	25	10.6
350	31	8,468	-28.2	-41.0	25	10.7
300	31	9,573	-36.5	-48.2	25	11.1
250	31	10,811	-46.2		25	12.4
200	30	12,258	-55.9		25	14.0
175	30	13,102	-58.7		25	12.3
150	30	14,066	-60.6		24	10.2
125	29	15,203	-60.9		25	7.7
100	29	16,591	-60.5		24	3.3
80	29	17,987	-58.7		15	1.3
70	28	18,829	-57.7		11	2.7
60	28	19,805	-56.4		10	4.8
50	27	20,967	-54.4		10	6.4
40	27	22,402	-52.9		09	8.6
30	27	24,271	-49.9		09	11.6
25	24	25,469	-48.5		09	12.8
20	23	26,942	-46.6		09	14.7
15	20	28,870	-43.2		09	16.6
10	5	31,617	-38.9			

CHIHUAHUA, MEXICO
859 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	1,428	18.3	15.3	17	.4
850	31	1,516	18.7	12.7	18	.4
800	31	2,036	16.8	9.9	15	.7
750	31	2,584	13.8	7.4	13	1.6
700	31	3,163	9.9	4.4	15	1.3
650	31	3,775	5.6	1.2	13	1.4
600	31	4,426	1.4	-2.5	13	1.4
550	31	5,122	-2.5	-8.4	10	1.4
500	31	5,874	-6.6	-14.8	09	1.5
450	31	6,690	-11.5	-20.8	06	1.2
400	31	7,584	-17.1	-26.6	05	2.0
350	31	8,574	-24.1	-33.0	03	3.0
300	31	9,678	-32.4	-42.7	02	4.5
250	31	10,937	-42.6		02	7.0
200	31	12,405	-54.5		01	8.0
175	31	13,247	-60.9		02	8.1
150	31	14,190	-67.9		04	6.1
125	30	15,273	-72.3		06	7.3
100	30	16,589	-70.3		08	8.7
80	30	17,924	-67.7		08	10.2
70	30	18,732	-65.7		08	12.2
60	30	19,675	-63.2		08	14.7
50	30	20,806	-60.1		09	17.0
40	29	22,204	-57.4		09	18.8
30	27	24,040	-53.8		09	19.9
25	26	25,216	-51.5		09	21.0
20	26	26,675	-48.8		09	21.2
15	20	28,579	-46.4		08	23.5
10	12	31,303	-42.3		09	26.5

• COLD BAY, AK
1008 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	30	8.6	7.3	17	3.9
1000	27	116	7.6	6.7	17	4.8
950	31	522	6.9	5.2	17	3.8
900	31	966	6.1	2.4	18	3.4
850	31	1,434	4.9	.1	19	4.1
800	31	1,927	2.8	-1.9	18	4.0
750	31	2,448	.5	-5.2	19	3.9
700	31	3,000	-1.9	-9.7	19	4.1
650	31	3,587	-4.9	-13.2	20	3.9
600	31	4,212	-8.4	-17.8	20	3.6
550	31	4,882	-12.4	-22.7	20	3.9
500	31	5,604	-17.1	-27.7	20	3.8
450	31	6,387	-22.4	-32.3	22	4.3
400	31	7,241	-28.7	-37.5	22	6.4
350	31	8,187	-35.8	-45.0	22	7.6
300	31	9,237	-44.1		22	8.3
250	30	10,428	-51.3		23	8.8
200	30	11,878	-49.9		24	9.3
175	30	12,754	-48.9		24	7.9
150	29	13,769	-49.0		24	6.4
125	29	14,963	-50.0		23	4.8
100	28	16,423	-50.2		22	3.1
80	28	17,881	-50.1		18	1.8
70	28	18,753	-50.0		16	1.7
60	26	19,757	-49.7		14	2.2
50	26	20,952	-49.4		11	3.1
40	26	22,418	-48.5		10	4.3
30	24	24,318	-47.2		10	6.3
25	24	25,528	-46.0		10	7.6
20	22	27,019	-44.3		10	8.4
15	21	28,957	-41.8		09	9.5
10	14	31,727	-37.6			

DAYTON, OH
982 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	299	18.1	15.9	14	.7
950	31	581	20.8	13.0	22	2.2
900	31	1,048	17.9	10.5	26	2.7
850	31	1,534	14.0	8.8	27	3.4
800	31	2,043	11.1	3.5	27	4.1
750	31	2,580	8.4	-3.4	27	4.5
700	31	3,148	5.6	-10.0	27	5.2
650	31	3,750	2.4	-13.1	27	5.5
600	31	4,393	-1.4	-17.0	27	5.9
550	31	5,080	-5.8	-20.9	27	7.1
500	31	5,821	-10.4	-25.9	27	7.1
450	31	6,624	-15.7	-30.6	27	7.7
400	31	7,502	-22.0	-36.8	27	8.0
350	31	8,472	-29.3	-42.8	28	8.9
300	31	9,551	-37.7	-48.8	27	10.1
250	31	10,786	-46.4		28	10.9
200	31	12,244	-53.1		29	12.3
175	31	13,099	-56.0		30	10.9
150	31	14,073	-58.8		30	9.2
125	31	15,213	-60.5		31	5.7
100	31	16,597	-61.4		32	3.0
80	30	17,985	-59.7		05	2.7
70	30	18,823	-58.6		07	4.9
60	29	19,795	-56.8		08	6.6
50	29	20,957	-54.7		08	8.7
40	29	22,391	-52.9		08	10.6
30	26	24,259	-50.2		09	13.4
25	26	25,455	-48.4		08	13.6
20	25	26,934	-45.8		08	15.9
15	20	28,860	-44.1		09	18.7

DEL RIO, TX
978 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	314	22.8	20.1	10	3.1
950	31	564	22.3	18.7	15	5.8
900	31	1,035	20.6	15.6	16	7.9
850	31	1,528	17.9	12.5	16	7.6
800	31	2,045	15.1	8.6	15	6.6
750	31	2,590	12.6	1.3	15	4.8
700	31	3,166	9.2	-2.7	15	3.1
650	31	3,776	5.4	-5.9	15	2.4
600	31	4,426	1.5	-9.5	14	2.2
550	31	5,122	-2.7	-13.0	14	2.3
500	31	5,872	-7.0	-19.9	14	2.5
450	31	6,686	-12.1	-24.2	13	2.1
400	31	7,577	-18.0	-30.7	14	1.9
350	31	8,566	-24.6	-37.5	09	1.3
300	31	9,666	-33.1	-46.0	06	1.9
250	30	10,922	-43.2		02	2.9
200	30	12,386	-55.2		02	4.4
175	30	13,227	-61.3		02	5.4
150	30	14,169	-67.4		03	5.2
125	30	15,256	-71.2		05	6.5
100	30	16,575	-70.6		07	8.1
80	29	17,909	-66.9		08	10.3
70	28	18,720	-64.3		08	10.9
60	28	19,668	-62.1		08	13.0
50	28	20,801	-59.9		09	15.7
40	27	22,201	-57.2		09	18.5
30	26	24,037	-53.6		09	21.6
25	26	25,215	-51.4		09	21.7
20	26	26,676	-48.1		09	21.3
15	26	28,582	-45.9		09	23.6
10	15	31,304	-42.3		09	29.2

DENVER, CO
841 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	1,611	15.9	8.4	21	1.6
800	31	2,035	18.9	5.2	27	1.4
750	31	2,587	16.5	1.8	34	1.1
700	31	3,170	12.0	-.9	34	1.3
650	31	3,786	7.3	-4.6	33	1.9
600	31	4,439	2.3	-8.7	31	2.1
550	31	5,135	-2.9	-13.6	30	2.4
500	31	5,884	-7.8	-19.1	30	2.3
450	31	6,696	-12.9	-25.4	30	2.3
400	31	7,584	-19.0	-31.8	30	2.8
350	31	8,567	-25.9	-39.1	32	3.5
300	31	9,661	-34.8	-46.0	32	4.9
250	31	10,907	-44.8		31	6.3
200	31	12,365	-55.1		31	7.7
175	31	13,210	-59.6		31	7.3
150	31	14,164	-63.9		31	5.6
125	31	15,273	-66.4		33	3.1
100	31	16,624	-66.3		04	2.1
80	31	17,987	-62.9		07	5.4
70	31	18,813	-61.0		08	6.9
60	31	19,776	-59.2		08	7.8
50	30	20,922	-56.7		09	9.3
40	30	22,349	-53.0		09	11.0
30	28	24,223	-50.6		09	12.4
25	28	25,416	-49.1		09	14.0
20	28	26,892	-46.2		09	16.3
15	19	28,815	-43.0		09	17.9

DODGE CITY, KS
926 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	791	19.6	14.5	19	2.5
900	31	1,037	21.7	13.5	20	5.6
850	31	1,532	19.6	10.3	20	6.6
800	31	2,052	16.6	7.0	20	3.9
750	31	2,599	13.1	2.2	19	1.5
700	31	3,175	9.1	-1.4	13	.6
650	31	3,785	4.9	-5.6	15	.2
600	31	4,434	1.0	-12.1	03	.8
550	31	5,128	-3.1	-18.5	03	1.4
500	31	5,876	-7.6	-23.1	01	1.7
450	31	6,689	-12.7	-27.4	36	2.0
400	31	7,577	-18.9	-34.2	34	2.5
350	31	8,560	-26.3	-40.3	34	3.8
300	31	9,653	-34.8	-48.0	33	5.2
250	31	10,900	-44.3		32	7.6
200	31	12,362	-54.7		32	7.5
175	30	13,207	-59.3		32	7.3
150	30	14,162	-63.8		33	6.9
125	30	15,272	-66.8		35	4.8
100	30	16,621	-65.9		04	4.3
80	30	17,982	-63.6		06	6.4
70	30	18,807	-61.6		08	7.5
60	30	19,768	-59.2		08	9.0
50	30	20,918	-56.0		08	10.0
40	30	22,341	-54.5		09	12.1
30	30	24,195	-51.7		09	14.1
25	30	25,383	-49.7		09	16.5
20	30	26,853	-46.9		09	18.1
15	26	28,776	-43.9		09	19.1
10	12	31,528	-41.1			

EL PASO, TX
883 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	1,193	20.3	14.5	12	.4
850	30	1,519	20.3	10.1	13	1.5
800	30	2,041	17.5	7.3	15	1.9
750	30	2,589	13.9	4.7	13	1.1
700	30	3,167	9.6	2.7	06	1.6
650	30	3,779	5.5	-.6	06	3.0
600	30	4,429	1.2	-5.9	05	3.8
550	30	5,124	-3.1	-11.5	05	3.9
500	30	5,873	-7.4	-17.7	05	3.4
450	30	6,687	-11.7	-23.1	04	2.4
400	30	7,580	-17.4	-29.8	03	3.4
350	30	8,569	-24.4	-35.8	01	3.7
300	30	9,671	-32.9	-43.9	36	4.9
250	30	10,926	-43.2		35	6.1
200	30	12,390	-55.4		34	7.1
175	30	13,230	-61.5		35	5.9
150	29	14,170	-67.4		36	4.3
125	29	15,257	-71.5		04	5.2
100	29	16,576	-70.1		08	6.9
80	29	17,913	-67.3		08	9.4
70	29	18,723	-64.7		08	11.3
60	29	19,670	-62.0		08	12.6
50	29	20,806	-58.8		09	15.8
40	29	22,215	-56.8		09	17.1
30	28	24,052	-53.1		09	18.1
25	26	25,233	-51.2		09	19.6
20	25	26,694	-48.2		09	21.2
15	23	28,600	-45.9		09	23.4
10	8	31,340	-42.5			

ELY, NV
811 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	29	1,908	12.1	3.7	20	3.5
800	29	2,025	16.1	4.1	19	3.6
750	29	2,576	15.9	.7	18	5.0
700	29	3,158	12.2	-2.4	20	6.2
650	29	3,774	7.4	-4.8	20	6.4
600	29	4,427	2.0	-7.4	20	5.7
550	29	5,122	-3.4	-11.7	20	5.0
500	29	5,869	-8.2	-20.1	21	6.5
450	29	6,679	-13.5	-26.8	22	7.0
400	29	7,565	-19.7	-33.5	22	8.7
350	29	8,546	-26.9	-39.7	23	9.7
300	29	9,636	-35.0	-47.0	23	11.2
250	29	10,884	-44.0		22	13.4
200	28	12,348	-54.5		23	13.3
175	28	13,194	-58.9		23	12.8
150	28	14,151	-63.5		23	10.4
125	28	15,262	-66.6		22	5.7
100	28	16,614	-65.9		17	3.3
80	28	17,978	-63.1		11	4.7
70	28	18,804	-61.0		10	6.2
60	27	19,766	-59.2		09	7.5
50	27	20,916	-56.4		09	9.2
40	27	22,340	-54.2		09	9.9
30	25	24,199	-51.4		09	13.5
25	24	25,388	-49.0		09	15.2
20	23	26,863	-46.3		09	15.8
15	20	28,779	-43.9		09	17.0
10	16	31,523	-39.7		09	21.5

EMPALME, MEXICO
1010 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	12	26.0	22.2	08	.9
1000	31	97	26.5	22.0	11	1.3
950	31	550	24.9	17.5	15	2.8
900	31	1,024	22.7	14.5	15	2.7
850	31	1,520	20.0	12.5	13	1.8
800	31	2,041	16.8	10.5	09	1.5
750	31	2,589	13.8	6.5	07	2.0
700	31	3,168	10.0	4.3	07	2.3
650	30	3,783	6.4	.4	07	2.0
600	30	4,435	2.0	-2.6	07	2.4
550	30	5,133	-2.1	-6.7	05	2.7
500	30	5,885	-6.5	-12.8	06	2.6
450	30	6,702	-11.2	-18.7	06	3.2
400	30	7,597	-16.6	-27.5	07	3.4
350	30	8,591	-23.5	-33.9	07	2.6
300	30	9,696	-32.1	-42.3	10	2.8
250	30	10,956	-42.5		12	3.8
200	30	12,424	-54.7		11	3.9
175	30	13,265	-61.5		10	3.9
150	30	14,205	-68.4		10	4.6
125	30	15,285	-72.6		10	5.2
100	29	16,598	-71.2		08	7.9
80	28	17,933	-67.4		08	10.4
70	27	18,747	-65.1		09	12.9
60	25	19,691	-62.9		09	14.7
50	23	20,830	-60.0		09	17.6
40	23	22,233	-57.3		09	18.6
30	23	24,066	-53.6		09	20.6
25	22	25,244	-51.5		09	21.0
20	20	26,699	-48.5		09	21.3
15	15	28,602	-45.3		09	23.9

• FAIRBANKS, AK
994 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	135	16.2	9.7	32	.7
1000	5	192	17.5	6.2		
950	31	523	15.2	6.9	28	1.7
900	31	979	12.3	4.6	26	2.1
850	31	1,455	8.7	2.4	26	2.2
800	31	1,954	5.2	-.1	26	1.7
750	31	2,478	1.6	-4.1	23	1.4
700	31	3,031	-1.9	-9.5	21	1.9
650	31	3,617	-5.2	-13.8	22	2.2
600	31	4,242	-8.5	-19.4	24	2.2
550	31	4,912	-12.7	-23.4	24	2.0
500	31	5,633	-17.5	-29.2	21	1.6
450	31	6,413	-23.1	-34.0	20	1.8
400	31	7,265	-29.5	-38.3	23	2.0
350	31	8,207	-36.8	-43.9	24	2.4
300	31	9,253	-45.0		23	2.2
250	31	10,450	-52.7		23	1.8
200	31	11,890	-50.6		25	2.0
175	31	12,765	-48.7		25	2.1
150	31	13,780	-48.4		25	2.4
125	31	14,981	-48.2		24	2.1
100	31	16,452	-47.9		23	1.5
80	30	17,921	-47.5		19	.8
70	30	18,805	-46.9		16	.9
60	30	19,827	-46.6		12	1.4
50	30	21,039	-45.9		10	2.4
40	29	22,529	-45.8		09	3.5
30	29	24,452	-44.1		09	4.7
25	29	25,679	-42.7		08	5.7
20	27	27,197	-40.9		08	8.0
15	21	29,153	-38.3		09	8.2
10	14	31,956	-33.8		09	10.6
7	5	34,412	-31.5			

FLINT, MI
987 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	236	16.6	14.0	22	1.6
950	31	567	19.1	11.4	26	4.7
900	31	1,031	16.5	9.0	27	5.3
850	31	1,515	13.6	5.7	27	5.6
800	31	2,024	10.7	1.6	27	5.7
750	31	2,559	7.7	-1.2	27	6.6
700	31	3,125	4.5	-6.8	28	6.7
650	31	3,725	1.2	-11.6	28	7.1
600	31	4,365	-2.3	-16.5	28	7.5
550	31	5,051	-6.6	-19.9	28	7.6
500	31	5,788	-11.4	-25.2	28	8.6
450	31	6,588	-16.7	-30.7	28	8.9
400	31	7,463	-22.8	-36.8	28	9.0
350	31	8,431	-30.2	-43.2	28	9.4
300	31	9,500	-38.5	-50.4	28	9.6
250	30	10,735	-46.9		29	9.2
200	30	12,193	-52.7		30	11.5
175	30	13,052	-54.6		30	11.3
150	30	14,033	-56.9		30	8.0
125	30	15,183	-58.6		30	6.4
100	30	16,583	-58.9		31	3.6
80	29	17,990	-57.6		02	2.4
70	29	18,835	-56.7		05	3.5
60	29	19,815	-55.7		07	4.6
50	28	20,980	-53.8		08	7.1
40	28	22,419	-52.0		08	9.3
30	27	24,295	-48.8		09	11.5
25	25	25,495	-47.3		09	12.1
20	23	26,986	-45.2		08	13.0
15	15	28,919	-43.5		09	16.6

RAWINSONDE DATA

Average monthly values

JULY 1975

Standard pressure surface mb	GLASGOW, MT 933 MB No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Speed m.p.s.	GRAND JUNCTION, CO 854 MB No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Speed m.p.s.	• GREAT FALLS, MT [illegible] MB No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Speed m.p.s.	GREEN BAY, WI 989 MB No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Speed m.p.s.	GREENSBORO, NC 985 MB No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Speed m.p.s.
SFC	31	636	17.1	3.5	27	[illegible]	31	1,472	19.4	8.1	[illegible]	[illegible]	31	1,118	16.3	[illegible]	24	[illegible]	31	[illegible]	16.9	[illegible]	26	[illegible]	31	275	[illegible]	[illegible]	[illegible]	[illegible]
1000																														
950																			31	555	19.4	11.4	29	5.1	31	592	20.9	16.2	26	[illegible]
900	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]													31	1,019	17.2	[illegible]	30	5.1	31	1,059	18.8	[illegible]	[illegible]	2.2
850	31	[illegible]	18.7	[illegible]	27	[illegible]	31	1,507	[illegible]	[illegible]	13	[illegible]	31	1,500	18.2	6.5	[illegible]	[illegible]	31	1,504	[illegible]	[illegible]	29	[illegible]	31	[illegible]	15.8	[illegible]	[illegible]	1.9
800	31	[illegible]	15.2	4.8	29	[illegible]	31	[illegible]	[illegible]	4.9	[illegible]	4.2	31	2,018	15.2	[illegible]	27	[illegible]	31	[illegible]	10.5	1.8	29	5.7	31	2,061	12.7	6.2	[illegible]	[illegible]
750	31	[illegible]	11.6	[illegible]	28	[illegible]	31	2,584	[illegible]	[illegible]	17	[illegible]	31	2,561	11.6	.3	26	3.9	31	2,548	7.4	-2.5	29	[illegible]	31	2,600	[illegible]	.8	[illegible]	[illegible]
700	31	[illegible]	7.7	[illegible]	29	[illegible]	31	3,168	12.5	[illegible]	24	[illegible]	31	3,134	7.8	[illegible]	26	5.9	31	3,113	4.1	-8.0	29	7.3	31	3,171	[illegible]	[illegible]	[illegible]	[illegible]
650	31	[illegible]	3.5	-6.0	29	[illegible]	31	3,785	7.6	[illegible]	[illegible]	2.4	31	[illegible]	3.9	[illegible]	26	6.8	31	3,712	.9	-12.9	29	[illegible]	31	3,776	[illegible]	[illegible]	[illegible]	[illegible]
600	31	4,386	-.5	[illegible]	27	[illegible]	31	4,438	2.3	[illegible]	[illegible]	[illegible]	31	4,387	-.5	-13.0	26	8.5	31	4,351	-2.6	-18.4	30	[illegible]	31	4,421	[illegible]	[illegible]	[illegible]	5.1
550	31	[illegible]	[illegible]	-17.4	27	9.7	31	5,135	-3.2	-10.1	[illegible]	[illegible]	31	5,076	-4.8	-18.7	[illegible]	9.7	31	5,036	-6.8	-20.9	31	8.8	31	5,113	[illegible]	-17.5	[illegible]	5.7
500	31	[illegible]	-9.7	-22.8	27	[illegible]	31	5,882	-8.3	-16.1	[illegible]	2.8	31	[illegible]	-9.9	[illegible]	[illegible]	10.6	31	5,773	[illegible]	[illegible]	31	10.4	31	5,858	[illegible]	-21.1	[illegible]	6.3
450	31	[illegible]	-15.2	-27.7	28	11.4	31	[illegible]	[illegible]	-25.1	[illegible]	[illegible]	31	[illegible]	-15.1	[illegible]	25	11.6	31	6,573	-16.9	-32.6	31	11.4	31	6,668	[illegible]	-27.9	[illegible]	[illegible]
400	31	7,504	[illegible]	-33.9	27	[illegible]	31	7,582	-18.5	[illegible]	[illegible]	[illegible]	31	[illegible]	-21.4	-34.6	25	13.0	31	7,446	[illegible]	[illegible]	31	12.3	31	7,553	-19.8	[illegible]	[illegible]	[illegible]
350	31	[illegible]	-28.4	[illegible]	27	[illegible]	31	8,567	[illegible]	[illegible]	[illegible]	[illegible]	31	8,475	[illegible]	[illegible]	25	15.0	31	[illegible]	[illegible]	-43.2	31	12.8	31	[illegible]	-26.0	[illegible]	[illegible]	[illegible]
300	31	9,562	-36.6	[illegible]	27	[illegible]	31	9,663	-34.2	-46.2	[illegible]	4.2	[illegible]	9,559	-36.6	[illegible]	25	18.2	30	9,486	[illegible]	-49.2	32	[illegible]	31	9,625	[illegible]	[illegible]	[illegible]	[illegible]
250	31	10,801	-45.6		27	19.3	31	10,913	[illegible]		[illegible]	6.5	[illegible]	[illegible]	-46.0		[illegible]	20.9	30	10,719	-46.5		32	[illegible]	31	10,871	-44.8		[illegible]	[illegible]
200	31	[illegible]	[illegible]		[illegible]	[illegible]	31	12,377	-54.5		[illegible]	8.4	[illegible]	12,252	-54.1		25	21.0	[illegible]	12,177	-53.0		31	[illegible]	31	12,328	-55.1		[illegible]	[illegible]
175	31	13,110	-56.6		29	[illegible]	31	[illegible]	-59.4		[illegible]	7.5	29	13,103	-56.4		25	[illegible]	30	13,034	-54.9		32	17.3	31	[illegible]	-59.7		[illegible]	[illegible]
150	31	[illegible]	-58.8		[illegible]	[illegible]	31	[illegible]	-64.3		[illegible]	5.2	29	14,077	-58.4		26	13.8	30	14,015	-56.7		32	13.6	31	14,128	-62.5		[illegible]	[illegible]
125	31	15,223	[illegible]		29	[illegible]	31	15,283	-66.9		[illegible]	[illegible]	29	15,217	-60.6		26	9.4	30	15,167	-58.4		32	9.5	31	15,248	[illegible]		[illegible]	[illegible]
100	31	16,617	-58.9		29	[illegible]	31	16,628	-66.7		[illegible]	[illegible]	29	[illegible]	-59.8		25	4.6	30	16,569	-58.1		33	[illegible]	31	16,615	-63.2		[illegible]	[illegible]
80	31	18,023	-57.1		[illegible]	[illegible]	31	17,989	-63.6		09	5.2	29	[illegible]	-57.2		18	.3	30	17,977	-57.3		36	[illegible]	31	17,992	[illegible]		[illegible]	[illegible]
70	31	[illegible]	-56.0		[illegible]	1.7	31	18,813	-61.3		09	6.7	29	18,857	-56.5		08	1.9	30	[illegible]	-56.3		04	3.4	31	18,822	[illegible]		09	6.4
60	31	19,854	-54.9		07	[illegible]	31	19,774	-59.7		09	[illegible]	28	[illegible]	-55.2		09	3.3	30	19,805	-55.5		06	4.4	31	19,788	-58.4		09	8.5
50	31	21,024	-53.2		08	[illegible]	31	20,921	-57.1		09	[illegible]	28	21,006	-53.4		09	6.1	30	20,972	-53.6		07	6.2	31	20,943	-55.8		09	11.6
40	31	22,469	-51.1		08	[illegible]	31	22,342	-54.3		[illegible]	[illegible]	28	[illegible]	-51.8		09	6.8	30	22,414	-51.7		08	[illegible]	31	22,370	-53.7		09	13.9
30	[illegible]	24,354	-48.1		09	[illegible]	29	24,197	-51.7		[illegible]	[illegible]	[illegible]	24,321	-49.4		08	9.1	30	24,291	-49.0		09	[illegible]	31	24,234	[illegible]		09	15.5
25	[illegible]	25,560	-46.6		09	9.4	29	25,384	-50.0		[illegible]	14.9	24	25,521	-47.1		08	10.5	29	25,495	-47.4		09	[illegible]	29	25,427	-48.9		09	16.0
20	24	[illegible]	-44.0		09	[illegible]	28	26,853	-47.4		[illegible]	[illegible]	19	27,013	-44.4		09	11.2	27	26,979	[illegible]		09	[illegible]	28	26,902	-46.3		09	17.0
15	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	22	28,767	[illegible]		[illegible]	[illegible]	17	28,944	[illegible]		09	11.8	25	[illegible]	-42.5		09	[illegible]	[illegible]	28,825	-44.2		09	[illegible]
10	[illegible]	31,760	-36.8				10	31,489	-41.2										13	31,688	-37.5				7	31,567	[illegible]			

Standard pressure surface mb	GUADALUPE IS., MEXICO 1012 MB No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Speed m.p.s.	• GUAM, MARIANA IS. 998 MB No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Speed m.p.s.	HILO, HI [illegible] MB No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Speed m.p.s.	HUNTINGTON, WV 987 MB No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Speed m.p.s.	• INTERNATIONAL FALLS, MN 970 MB No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Speed m.p.s.
SFC	31	[illegible]	16.3	14.0	32	4.9	31	111	24.6	23.2	12	[illegible]	31	10	21.1	18.5	25	1.2	31	246	18.6	17.6	19	.6	31	359	[illegible]	13.6	[illegible]	[illegible]
1000	31	[illegible]	15.6	13.7	32	[illegible]							31	159	20.9	17.2	28	.3												
950	31	[illegible]	[illegible]	7.9	33	[illegible]	31	545	23.1	20.3	12	4.4	31	[illegible]	17.8	15.3	07	2.3	31	578	20.9	[illegible]	24	1.9	31	533	18.8	[illegible]	[illegible]	3.2
900	31	[illegible]	22.4	-.1	33	1.1	31	1,016	20.5	16.4	12	4.7	31	1,064	14.7	12.5	07	3.7	31	1,045	18.5	11.3	27	2.6	31	998	17.8	8.6	[illegible]	6.7
850	31	[illegible]	21.5	-.2	35	.6	31	1,509	17.8	12.5	12	[illegible]	31	1,546	11.7	9.8	07	3.5	31	1,533	15.3	8.7	27	3.7	31	1,484	14.6	5.6	29	7.0
800	31	[illegible]	18.7	-1.4	02	[illegible]	31	2,027	15.0	9.7	11	[illegible]	31	2,052	9.9	1.8	08	4.7	31	2,045	12.2	4.8	27	4.6	31	1,995	11.4	[illegible]	[illegible]	7.5
750	31	2,589	15.0	-3.8	04	[illegible]	31	2,572	12.3	5.9	11	3.7	31	2,588	8.7	-8.9	09	5.8	31	2,583	[illegible]	.7	27	5.5	31	2,532	8.1	[illegible]	[illegible]	[illegible]
700	31	[illegible]	[illegible]	-5.9	07	[illegible]	31	3,148	9.1	1.4	11	3.5	31	3,157	6.9	-11.4	10	6.5	31	3,151	5.9	-6.0	27	6.0	31	3,098	[illegible]	-6.8	[illegible]	10.4
650	31	[illegible]	6.4	-7.1	10	[illegible]	31	3,759	5.7	-3.1	11	3.6	31	3,762	3.6	-15.9	11	6.1	31	3,755	2.7	-8.7	27	6.3	31	3,698	[illegible]	-9.5	[illegible]	11.8
600	31	4,431	1.9	-10.6	11	[illegible]	31	4,410	2.0	-7.3	11	3.1	31	4,407	.7	-19.8	10	5.8	31	4,398	-.9	-14.5	27	[illegible]	31	4,337	-2.7	-15.3	[illegible]	13.5
550	31	5,128	-2.4	-16.1	10	[illegible]	31	5,108	-2.0	-10.7	[illegible]	2.8	31	5,102	-2.6	-23.0	11	5.1	31	5,088	-4.9	-20.6	26	6.2	31	5,022	[illegible]	-21.1	[illegible]	14.5
500	31	5,878	-6.7	-22.4	10	[illegible]	31	5,860	-6.3	-16.0	10	3.1	31	5,852	-6.8	-26.5	12	4.5	31	5,831	-9.5	-25.5	26	6.7	31	5,759	-11.5	-26.3	31	15.7
450	31	[illegible]	[illegible]	-28.6	10	[illegible]	31	6,677	-11.0	-22.3	10	2.6	31	6,666	-12.2	-30.9	14	3.4	31	6,637	-14.9	-31.1	26	7.2	30	6,567	-16.6	-31.0	31	17.2
400	31	7,585	-17.5	-34.5	14	[illegible]	[illegible]	7,571	-17.0	-27.2	09	2.2	31	7,554	-19.1	-36.4	17	3.4	31	7,519	-20.8	-34.9	26	8.7	29	7,448	-22.8	-37.8	31	18.4
350	31	8,574	-24.6	-41.3	18	[illegible]	30	8,564	-23.8	-34.9	08	2.1	31	8,537	-26.5	-42.3	21	[illegible]	31	8,495	-28.0	-39.6	26	9.7	29	8,416	-30.0	-45.4	30	19.0
300	31	9,675	-32.8	-48.3	19	3.2	30	9,669	[illegible]	-43.7	[illegible]	2.3	31	9,628	-35.3	-50.1	21	5.8	31	9,580	-36.4	-47.4	26	10.9	29	9,493	-38.1	-50.6	[illegible]	20.5
250	31	10,933	[illegible]		19	[illegible]	29	10,927	-42.8		05	2.8	31	10,871	-45.5		23	7.8	31	10,819	-45.8		26	11.5	29	10,725	-46.7		[illegible]	22.0
200	31	12,401	-54.3		18	[illegible]	29	12,392	-55.4		[illegible]	3.7	31	12,321	-56.8		22	9.9	31	12,276	-54.2		27	13.8	29	12,182	-53.0		30	22.5
175	[illegible]	13,245	-60.4		[illegible]	[illegible]	29	13,230	[illegible]		[illegible]	4.9	31	13,157	-62.2		[illegible]	10.6	31	13,127	-56.9		28	12.2	29	13,040	-54.5		31	22.0
150	[illegible]	14,190	[illegible]		16	[illegible]	29	14,164	-70.2		[illegible]	6.7	31	14,098	-67.1		21	7.9	31	[illegible]	-59.5		28	8.7	29	14,023	-56.3		[illegible]	16.3
125	[illegible]	15,274	-72.4		15	[illegible]	29	15,231	-76.6		06	[illegible]	[illegible]	15,196	-70.3		19	5.8	31	[illegible]	-61.5		28	4.2	29	15,179	-57.3		[illegible]	12.5
100	[illegible]	16,589	-70.5		09	[illegible]	27	16,513	-75.8		[illegible]	11.1	[illegible]	16,506	-71.8		10	5.3	31	[illegible]	-62.0		33	1.8	29	16,589	-57.0		32	7.3
80	[illegible]	17,924	[illegible]		08	[illegible]	26	17,815	-72.1		09	14.9	[illegible]	17,829	-69.4		09	11.0	31	17,998	-60.1		06	3.5	29	18,004	-55.8		34	3.8
70	[illegible]	18,737	[illegible]		09	[illegible]	22	18,613	-68.8		09	16.3	[illegible]	18,631	[illegible]		09	13.8	31	18,835	-58.6		08	5.2	29	18,857	-54.8		[illegible]	[illegible]
60	24	19,685	[illegible]		09	[illegible]	21	19,542	-66.7		09	18.3	[illegible]	19,567	[illegible]		09	15.4	30	19,804	-57.0		08	6.8	27	19,848	-54.1		04	3.0
50	24	20,819	-59.9		08	[illegible]	21	20,654	-63.1		09	17.8	30	20,688	[illegible]		09	18.5	30	20,964	[illegible]		08	9.3	27	21,021	[illegible]		[illegible]	4.6
40	[illegible]	22,219	-57.6		08	[illegible]	21	22,041	-59.0		[illegible]	16.3	[illegible]	22,076	-59.4		09	19.1	27	22,400	-52.4		[illegible]	11.9	27	[illegible]	-50.9		08	6.1
30	[illegible]	[illegible]	-53.9		08	[illegible]	20	23,862	-55.4		[illegible]	13.8	29	23,893	[illegible]		09	20.5	24	24,277	-49.5		[illegible]	13.8	[illegible]	24,347	[illegible]		[illegible]	8.9
25	[illegible]	25,217	-52.5		09	[illegible]	20	25,033	-52.5		[illegible]	[illegible]	[illegible]	[illegible]	-53.4		09	20.5	20	25,473	[illegible]		[illegible]	[illegible]	[illegible]	25,552	[illegible]		[illegible]	9.9
20	[illegible]	26,660	-49.8				20	26,484	-50.2		[illegible]	[illegible]	[illegible]	26,504	-51.0		09	20.9	18	26,951	-45.5		[illegible]	[illegible]	[illegible]	27,041	-44.5		[illegible]	11.5
15							16	[illegible]	-48.1		[illegible]	17.9	[illegible]	[illegible]	-47.5		09	22.3	13	28,882	-43.0		09	17.5	18	28,975	[illegible]		[illegible]	14.6
10							6	31,035	-45.7				23	31,086	-44.5		09	27.6	5	31,604	-39.4									

Standard pressure surface mb	• ISLE DEL CISNE 1013 MB No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Speed m.p.s.	JACKSON, MS 1004 MB No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Speed m.p.s.	JOHN F. KENNEDY INT. AP NY 1015 MB No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Speed m.p.s.	JOHNSTON IS., PACIFIC AREA 1015 MB No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Speed m.p.s.	KEY WEST, FL 1016 MB No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Speed m.p.s.
SFC	31	[illegible]	26.5	23.0	10	[illegible]	31	[illegible]	[illegible]	20.9	18	.6	31	5	[illegible]	17.4	24	1.6	31	3	25.6	21.2	09	6.9	31	3	27.0	23.0	14	1.4
1000	31	123	26.1	23.3	10	5.1	31	133	22.4	[illegible]	[illegible]	.7	31	[illegible]	[illegible]	16.4	26	2.0	31	133	24.1	20.0	09	7.6	31	144	26.4	21.5	[illegible]	[illegible]
950	31	574	22.5	20.5	[illegible]	[illegible]	31	582	22.8	[illegible]	[illegible]	2.7	31	582	19.9	13.4	26	2.5	31	580	[illegible]	17.6	09	[illegible]	31	596	[illegible]	19.3	[illegible]	3.1
900	31	1,044	19.4	16.0	[illegible]	[illegible]	31	1,053	[illegible]	[illegible]	28	2.6	31	1,047	17.6	[illegible]	26	3.3	31	1,045	17.1	13.4	09	[illegible]	31	1,066	20.1	[illegible]	[illegible]	2.5
850	31	1,535	16.5	10.4	[illegible]	[illegible]	31	1,544	[illegible]	[illegible]	28	2.0	31	1,534	14.9	[illegible]	25	4.1	31	1,532	14.3	9.0	09	[illegible]	31	1,558	17.0	[illegible]	[illegible]	2.2
800	31	2,050	14.3	[illegible]	[illegible]	[illegible]	31	2,059	[illegible]	[illegible]	29	[illegible]	31	2,045	12.0	[illegible]	25	5.2	31	2,043	[illegible]	2.8	08	8.1	31	[illegible]	14.1	6.9	14	2.0
750	31	2,593	[illegible]	-.6	[illegible]	[illegible]	31	2,601	[illegible]	3.7	[illegible]	1.9	31	2,583	9.1	-.2	26	5.9	31	2,582	[illegible]	-3.1	09	6.8	31	2,615	[illegible]	1.8	[illegible]	1.4
700	31	3,165	[illegible]	-5.1	[illegible]	[illegible]	31	3,173	[illegible]	[illegible]	[illegible]	2.2	31	3,152	5.9	-5.4	26	6.9	31	3,153	7.8	-8.8	09	5.3	31	3,188	[illegible]	-3.2	[illegible]	1.0
650	31	3,772	[illegible]	-8.2	[illegible]	[illegible]	31	3,780	[illegible]	-6.8	[illegible]	2.8	31	3,756	2.8	[illegible]	26	8.3	31	3,761	5.1	[illegible]	09	3.7	31	3,795	4.1	-6.6	[illegible]	.9
600	31	4,420	[illegible]	-13.3	[illegible]	[illegible]	31	4,426	.3	[illegible]	[illegible]	[illegible]	31	4,399	-.8	-13.5	25	8.6	31	4,411	[illegible]	-17.9	08	2.7	31	4,441	.2	-10.0	[illegible]	1.3
550	31	5,115	-2.9	-16.4	11	[illegible]	31	5,119	-3.5	[illegible]	[illegible]	[illegible]	31	5,090	-4.4	[illegible]	25	8.8	31	[illegible]	-2.3	-21.2	09	1.5	31	5,134	-3.8	-13.6	14	1.3
500	31	[illegible]	-7.6	-21.7	[illegible]	[illegible]	31	5,867	-7.8	[illegible]	31	[illegible]	31	5,834	-9.1	[illegible]	25	8.9	31	[illegible]	-6.7	[illegible]	10	[illegible]	31	5,881	-8.3	-18.4	[illegible]	1.2
450	31	6,676	-12.5	-24.7	09	[illegible]	31	6,679	[illegible]	[illegible]	31	[illegible]	31	6,641	-14.3	-28.4	25	10.0	31	6,672	-12.0	-30.2	09	.7	31	6,692	-13.1	-23.6	[illegible]	1.9
400	31	7,566	-18.3	-31.3	[illegible]	[illegible]	31	7,568	[illegible]	-31.9	31	[illegible]	30	7,520	-20.7	-34.5	25	10.2	31	7,562	-18.5	-34.6	31	1.2	31	7,580	-18.8	[illegible]	[illegible]	[illegible]
350	31	8,552	-25.4	-37.2	07	[illegible]	31	8,553	[illegible]	-38.0	[illegible]	4.4	[illegible]	8,496	-27.9	[illegible]	25	10.4	31	8,546	[illegible]	-41.1	27	2.9	31	8,564	[illegible]	-36.9	[illegible]	3.3
300	31	9,649	-33.6	-45.2	[illegible]	[illegible]	31	9,648	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9,582	-36.3	-49.3	25	10.0	31	9,639	-34.9	-48.1	27	5.8	31	9,660	-34.1	-45.2	[illegible]	3.3
250	31	10,902	[illegible]		34	[illegible]	31	10,899	[illegible]		[illegible]	[illegible]	[illegible]	10,821	-46.4		25	10.6	31	10,885	-45.1		26	[illegible]	31	10,910	[illegible]		[illegible]	4.7
200	31	12,362	-55.6		33	[illegible]	31	12,359	[illegible]		[illegible]	[illegible]	[illegible]	12,270	-55.7		25	11.5	31	12,337	-56.7		26	[illegible]	31	12,367	[illegible]		[illegible]	7.3
175	31	13,201	-62.0		34	[illegible]	31	13,199	[illegible]		[illegible]	[illegible]	[illegible]	13,114	[illegible]		25	11.9	31	13,172	-62.7		26	[illegible]	31	13,203	-62.1		[illegible]	8.4
150	31	[illegible]	-67.5		[illegible]	[illegible]	31	14,143	[illegible]		[illegible]	[illegible]	[illegible]	14,079	-60.3		[illegible]	9.6	31	14,109	[illegible]		[illegible]	9.5	31	14,144	-67.4		[illegible]	8.0
125	31	15,227	-71.4		[illegible]	[illegible]	29	15,238	-68.4		[illegible]	[illegible]	[illegible]	15,211	[illegible]		[illegible]	8.0	31	15,197	-70.9		27	[illegible]	[illegible]	15,234	[illegible]		[illegible]	5.8
100	[illegible]	16,543	[illegible]		[illegible]	[illegible]	[illegible]	16,579	[illegible]		[illegible]	[illegible]	[illegible]	16,604	-60.1		27	3.2	31	16,513	-71.9		[illegible]	3.5	[illegible]	16,563	-70.1		[illegible]	6.1
80	[illegible]	17,864	[illegible]		[illegible]	[illegible]	29	17,933	[illegible]		[illegible]	[illegible]	[illegible]	18,002	-58.1		[illegible]	1.7	31	17,835	-69.8		[illegible]	[illegible]	[illegible]	17,896	-67.9		[illegible]	10.1
70	[illegible]	18,668	[illegible]		09	[illegible]	28	18,754	[illegible]		[illegible]	[illegible]	24	18,846	-56.9		[illegible]	2.9	31	18,636	-67.3		[illegible]	[illegible]	[illegible]	18,703	-65.7		[illegible]	12.8
60	[illegible]	[illegible]	-64.2		[illegible]	[illegible]	28	19,710	[illegible]		[illegible]	12.2	23	19,823	-55.8		[illegible]	5.0	31	19,571	-64.9		[illegible]	16.5	[illegible]	[illegible]	[illegible]		[illegible]	16.3
50	[illegible]	20,732	-61.1		[illegible]	[illegible]	28	20,854	[illegible]		[illegible]	14.3	[illegible]	[illegible]	-54.0		[illegible]	7.1	31	20,691	-62.0		[illegible]	18.1	[illegible]	[illegible]	[illegible]		[illegible]	19.7
40	[illegible]	22,129	-57.6		[illegible]	[illegible]	27	22,276	[illegible]		[illegible]	16.1	[illegible]	22,424	-52.2		[illegible]	10.3	[illegible]	22,079	-59.6		[illegible]	18.2	[illegible]	[illegible]	-57.4		[illegible]	22.1
30	[illegible]	23,962	[illegible]		[illegible]	[illegible]	[illegible]	24,128	-52.3		[illegible]	17.2	[illegible]	24,298	-49.0		[illegible]	[illegible]	[illegible]	23,897	-54.9		[illegible]	[illegible]	[illegible]	24,015	-53.3		[illegible]	21.4
25	[illegible]	25,143	[illegible]		[illegible]	17.7	[illegible]	25,314	-50.2		[illegible]	19.0	[illegible]	25,492	-47.6		[illegible]	13.7	28	25,070	-52.2		[illegible]	[illegible]	[illegible]	25,197	[illegible]		[illegible]	21.1
20	[illegible]	26,606	[illegible]		[illegible]	16.4	[illegible]	26,782	[illegible]		[illegible]	20.5	[illegible]	26,976	-44.8		[illegible]	16.1	[illegible]	26,521	-50.0		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	21.8
15	[illegible]	28,509	-45.7		[illegible]	17.3	16	28,692	[illegible]		[illegible]	23.0	[illegible]	28,914	-41.2				[illegible]	[illegible]	-48.0		[illegible]	[illegible]	[illegible]	28,565	-45.5		[illegible]	[illegible]
10	[illegible]	31,246	-42.5				9	31,451	[illegible]										24	31,105	-44.4		[illegible]	25.2	[illegible]	[illegible]	-43.1			
7																			8	33,492	[illegible]									

Clemson University Library

RAWINSONDE DATA

Average monthly values

JULY 1975

KING SALMON, AK
1009 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind	
					Direction tens of deg	Speed m p s
SFC	18	15	9.6	6.8	16	1.3
1000	16	102	10.6	6.2	17	2.1
950	18	519	10.1	5.3	15	3.0
900	18	968	8.2	3.1	14	2.8
850	18	1,438	5.7	-.3	14	2.9
800	18	1,932	3.3	-2.0	13	3.2
750	18	2,453	.7	-5.9	13	3.2
700	18	3,005	-1.9	-8.6	12	3.3
650	18	3,593	-4.3	-14.9	11	3.4
600	18	4,219	-7.7	-17.5	11	3.2
550	18	4,892	-11.8	-20.0	12	2.9
500	18	5,615	-16.4	-24.3	14	2.4
450	18	6,400	-21.7	-30.2	15	1.7
400	18	7,257	-27.9	-35.2	16	.7
350	18	8,204	-35.4	-40.1	25	.5
300	18	9,257	-43.2		23	1.6
250	17	10,470	-49.3		23	4.8
200	17	11,928	-49.5		23	5.2
175	17	12,804	-49.5		23	4.9
150	17	13,815	-48.8		22	3.8
125	16	15,016	-49.5		19	2.9
100	16	16,478	-49.3		18	3.6
80	16	17,940	-49.3		15	3.3
70	14	18,825	-48.9		15	3.1
60	13	19,838	-49.1		13	3.4
50	13	21,036	-48.6		12	4.5
40	13	22,507	-47.7		10	4.8
30	13	24,414	-46.3		10	6.8
25	13	25,628	-45.2		10	7.7
20	13	27,123	-43.9		09	8.5
15	11	29,073	-41.1		09	10.6
10	7	31,864	-35.5			

* KOROR, CAROLINE IS.
1006 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind	
					Direction tens of deg	Speed m p s
SFC	31	30	27.5	24.2	09	.7
1000	31	86	26.4	23.6	11	.6
950	31	539	23.4	20.7	17	1.0
900	31	1,011	20.5	17.2	16	1.2
850	31	1,503	17.5	13.8	14	1.5
800	31	2,021	15.0	11.0	12	1.9
750	31	2,566	12.2	7.2	11	2.6
700	31	3,142	8.9	3.7	11	3.0
650	31	3,753	5.6	-.6	11	4.0
600	31	4,404	1.9	-4.1	11	4.9
550	31	5,102	-1.8	-8.1	11	5.2
500	31	5,855	-6.0	-14.8	10	5.8
450	30	6,672	-10.7	-20.0	10	5.0
400	30	7,569	-16.3	-26.3	10	4.9
350	30	8,564	-23.1	-33.6	09	4.3
300	30	9,671	-31.6	-42.0	08	4.0
250	30	10,933	-42.2		08	4.3
200	28	12,403	-54.8		08	4.6
175	28	13,244	-61.8		07	5.6
150	28	14,181	-69.3		07	7.7
125	28	15,251	-76.1		08	8.2
100	28	16,530	-76.7		08	10.2
80	28	17,834	-70.9		09	14.3
70	28	18,630	-68.4		09	15.5
60	27	19,561	-64.6		09	14.4
50	27	20,684	-61.2		09	11.4
40	27	22,082	-57.8		09	7.0
30	26	23,915	-54.0		09	4.0
25	26	25,090	-51.9		12	3.3
20	25	26,544	-49.4		12	2.7
15	23	28,443	-47.6		10	4.3
10	12	31,137	-44.3		10	8.8

KOTZEBUE, AK
1013 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind	
					Direction tens of deg	Speed m p s
SFC	13	5	8.0	5.7	27	4.9
1000	12	124	8.9	2.8	27	4.8
950	13	539	8.2	2.8	25	3.6
900	13	984	6.5	-.4	24	4.1
850	13	1,451	3.7	-2.3	22	4.4
800	13	1,941	1.6	-7.1	21	5.2
750	13	2,460	-.9	-10.1	21	5.4
700	13	3,007	-3.7	-14.1	21	5.6
650	13	3,590	-6.7	-18.0	22	6.2
600	13	4,212	-10.0	-23.8	22	7.0
550	13	4,877	-14.3	-29.1	23	7.0
500	13	5,593	-19.0	-32.5	23	7.8
450	13	6,369	-24.4	-38.0	23	8.8
400	13	7,216	-31.1	-43.3	22	8.7
350	13	8,152	-37.9	-43.9	22	9.2
300	12	9,196	-44.3		22	10.3
250	12	10,404	-50.0		21	9.1
200	12	11,857	-49.1		22	6.9
175	12	12,740	-46.8		23	5.7
150	12	13,763	-46.2		22	5.0
125	12	14,974	-46.2		22	3.5
100	12	16,456	-46.4		21	1.5
80	12	17,937	-46.5		19	1.7
70	11	18,823	-46.0		16	1.8
60	11	19,849	-45.9		12	1.3
50	11	21,064	-45.6		11	2.4
40	10	22,548	-44.9		10	3.5
30	10	24,479	-43.0		09	4.3
25	8	25,717	-41.5			
20	6	27,236	-40.3			

LAKE CHARLES, LA
1015 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind	
					Direction tens of deg	Speed m p s
SFC	31	5	23.5	22.9	01	.5
1000	31	135	25.2	23.0	27	1.0
950	31	586	23.2	19.5	25	3.6
900	31	1,057	20.4	15.3	24	2.6
850	31	1,549	17.5	10.7	23	1.5
800	31	2,066	14.4	8.0	25	1.2
750	31	2,609	11.2	4.0	26	1.3
700	31	3,182	7.7	-.4	28	1.5
650	31	3,789	4.1	-3.1	28	1.5
600	31	4,437	.6	-8.7	28	1.1
550	31	5,131	-3.2	-14.8	04	.3
500	31	5,879	-7.6	-18.6	03	1.1
450	31	6,692	-12.2	-25.7	02	1.9
400	31	7,583	-18.0	-31.5	01	1.6
350	31	8,571	-24.8	-36.1	33	1.9
300	31	9,671	-33.2	-45.0	33	2.3
250	31	10,926	-43.5		32	2.6
200	31	12,389	-55.3		32	3.3
175	31	13,228	-61.5		35	3.7
150	31	14,170	-67.3		36	3.0
125	31	15,261	-70.1		04	4.4
100	31	16,592	-68.5		08	6.5
80	31	17,939	-65.0		08	8.9
70	31	18,758	-62.9		08	10.9
60	31	19,712	-60.7		08	12.7
50	31	20,855	-57.9		09	14.5
40	31	22,268	-56.0		09	17.1
30	31	24,112	-52.8		09	19.3
25	30	25,298	-50.3		09	21.0
20	30	26,766	-47.2		09	21.3
15	26	28,677	-44.8		09	23.4

LANDER, WY
832 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind	
					Direction tens of deg	Speed m p s
SFC	31	1,697	15.5	7.0	24	1.6
1000						
950						
900						
850						
800	31	2,033	18.0	4.5	30	1.3
750	31	2,583	15.7	1.3	25	1.5
700	31	3,165	11.8	-1.5	24	3.9
650	31	3,780	7.2	-3.8	26	5.7
600	31	4,433	2.1	-7.4	26	6.6
550	31	5,128	-3.4	-12.0	26	6.0
500	31	5,875	-8.4	-18.9	26	5.3
450	31	6,685	-13.3	-26.5	26	6.0
400	31	7,571	-19.4	-32.7	25	6.9
350	31	8,553	-26.6	-40.3	26	8.2
300	31	9,644	-35.3	-48.5	27	9.5
250	31	10,888	-45.1		27	10.9
200	31	12,346	-54.7		27	12.7
175	31	13,192	-59.0		27	11.6
150	31	14,150	-62.5		27	9.5
125	31	15,269	-64.8		27	5.9
100	31	16,632	-63.7		25	2.1
80	30	18,009	-61.2		09	2.7
70	30	18,843	-59.3		09	4.7
60	30	19,812	-57.9		09	5.8
50	30	20,967	-55.8		09	7.9
40	27	22,394	-53.0		09	9.7
30	25	24,257	-50.2		09	11.3
25	24	25,449	-48.6		09	12.8
20	23	26,922	-46.4		09	15.2
15	18	28,840	-42.6		09	16.6
10	6	31,581	-40.0			

* LIHUE KAUAI, HI
1015 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind	
					Direction tens of deg	Speed m p s
SFC	31	36	23.7	19.7	07	6.0
1000	31	58	22.6	18.3	07	6.9
950	31	613	18.6	16.6	07	8.3
900	31	1,075	15.3	12.6	08	8.8
850	31	1,558	12.2	8.7	08	9.0
800	31	2,066	11.0	.1	08	9.1
750	31	2,603	9.4	-6.9	09	8.2
700	31	3,173	7.4	-12.3	09	7.3
650	31	3,779	4.2	-15.2	10	6.2
600	31	4,426	1.3	-18.8	10	5.5
550	31	5,121	-2.6	-23.0	10	4.9
500	31	5,869	-7.8	-27.3	10	4.0
450	31	6,680	-13.3	-31.4	12	2.9
400	31	7,565	-19.9	-36.0	14	1.6
350	31	8,543	-27.6	-42.9	21	2.3
300	31	9,629	-36.5	-50.3	22	4.2
250	31	10,866	-46.5		23	5.3
200	31	12,313	-56.8		23	7.9
175	31	13,150	-61.4		22	7.0
150	31	14,097	-65.0		20	5.3
125	31	15,202	-67.7		16	4.1
100	31	16,536	-69.5		11	5.4
80	31	17,671	-67.8		09	10.3
70	31	18,678	-65.8		09	12.5
60	31	19,619	-64.1		09	15.1
50	31	20,743	-61.4		09	17.8
40	31	22,135	-58.8		09	19.1
30	31	23,956	-55.2		09	21.1
25	30	25,124	-53.4		09	22.3
20	30	26,571	-50.5		09	22.8
15	30	28,463	-46.9		09	23.8
10	14	31,184	-43.0		09	25.8

LITTLE ROCK, AR
1006 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind	
					Direction tens of deg	Speed m p s
SFC	31	79	21.8	19.9	26	.5
1000	31	133	23.3	20.2	26	.7
950	31	583	23.6	17.3	29	1.2
900	31	1,055	20.8	14.6	29	1.5
850	31	1,547	17.2	12.0	31	1.8
800	31	2,063	14.1	7.4	31	2.0
750	31	2,605	10.9	2.2	30	2.4
700	31	3,178	7.8	-3.8	30	2.7
650	31	3,785	4.3	-7.6	31	3.3
600	31	4,433	.4	-12.3	31	3.4
550	31	5,126	-3.4	-17.2	31	3.6
500	31	5,873	-7.8	-23.0	31	3.3
450	31	6,685	-12.8	-29.4	32	3.6
400	31	7,573	-19.0	-34.4	31	4.3
350	31	8,555	-26.4	-38.5	31	5.5
300	31	9,648	-34.6	-45.7	30	7.0
250	31	10,897	-44.1		31	8.0
200	31	12,358	-54.7		32	8.5
175	31	13,203	-59.7		32	7.4
150	31	14,156	-64.3		34	6.9
125	31	15,264	-66.4		03	5.4
100	31	16,616	-66.0		05	5.0
80	30	17,981	-63.0		07	8.4
70	30	18,808	-60.6		08	9.4
60	30	19,772	-58.7		09	10.6
50	29	20,924	-56.4		09	12.5
40	28	22,347	-54.4		09	14.1
30	27	24,205	-51.2		09	16.1
25	26	25,397	-49.1		09	18.3
20	26	26,871	-46.5		09	20.4
15	19	28,793	-43.6		09	22.8

LONGVIEW, TX
1002 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind	
					Direction tens of deg	Speed m p s
SFC	19	124	22.3	21.5	21	.9
1000	16	143	22.8	21.4	22	1.3
950	19	589	23.5	17.4	24	3.9
900	19	1,060	21.0	15.1	23	2.4
850	19	1,553	17.3	12.7	24	1.7
800	19	2,069	14.2	8.8	25	.9
750	19	2,612	11.2	3.7	25	1.1
700	19	3,186	7.6	.3	26	1.0
650	19	3,794	4.5	-6.2	25	1.5
600	19	4,442	.9	-12.1	26	1.4
550	19	5,136	-3.4	-14.6	27	1.0
500	19	5,884	-7.8	-20.5	28	1.3
450	19	6,695	-12.6	-26.1	30	2.0
400	19	7,585	-18.2	-31.6	30	2.5
350	18	8,570	-25.4	-39.3	31	2.4
300	18	9,668	-33.4	-47.2	31	4.1
250	18	10,920	-43.8		29	5.6
200	18	12,381	-55.2		28	5.4
175	18	13,221	-61.2		29	4.5
150	18	14,167	-66.2		33	3.3
125	18	15,262	-69.4		06	4.4
100	18	16,595	-67.9		07	6.4
80	18	17,949	-64.6		08	8.7
70	18	18,768	-62.8		08	11.1
60	18	19,723	-60.6		08	13.1
50	18	20,864	-58.3		09	15.5
40	17	22,277	-56.0		09	16.6
30	17	24,122	-52.6		09	19.1
25	16	25,304	-50.4		09	21.4
20	13	26,776	-46.9		09	22.7
15	7	28,669	-44.1			

MCGRATH, AK
1001 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind	
					Direction tens of deg	Speed m p s
SFC	26	103	12.1	9.0	19	1.1
1000	13	150	14.1	7.8	19	1.2
950	26	541	13.5	6.7	22	3.0
900	26	994	10.7	5.2	23	3.0
850	26	1,468	7.6	3.6	21	2.8
800	26	1,966	4.8	-.7	20	2.6
750	26	2,490	1.6	-4.1	20	2.5
700	26	3,043	-1.5	-10.3	21	2.4
650	26	3,630	-4.8	-12.6	22	2.7
600	26	4,256	-8.2	-17.8	22	2.8
550	26	4,926	-12.5	-22.9	21	2.8
500	26	5,647	-17.3	-26.9	23	3.1
450	26	6,429	-22.6	-31.9	23	2.6
400	26	7,282	-29.1	-38.9	21	2.9
350	26	8,226	-36.2	-45.1	22	4.2
300	26	9,275	-44.3		22	4.2
250	26	10,475	-52.1		23	3.8
200	26	11,914	-51.6		24	3.4
175	26	12,787	-49.3		24	3.5
150	26	13,799	-48.5		23	2.5
125	26	14,999	-48.4		22	2.4
100	26	16,469	-47.9		20	2.0
80	26	17,942	-47.8		17	1.2
70	26	18,825	-47.5		15	1.7
60	25	19,843	-47.1		13	2.0
50	25	21,052	-46.5		11	2.1
40	23	22,537	-45.8		10	3.5
30	23	24,458	-44.5		09	4.2
25	23	25,683	-43.2		09	5.5
20	23	27,194	-41.1		09	7.8
15	20	29,156	-39.0		09	8.6
10	10	31,977	-34.1			

+ MAJURO, MARSHALL IS.
1011 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind	
					Direction tens of deg	Speed m p s
SFC	31	3	27.4	24.0	09	2.9
1000	31	98	26.1	22.3	09	3.9
950	31	549	22.8	20.5	10	5.4
900	31	1,020	20.1	16.9	10	6.2
850	31	1,512	17.2	13.7	10	6.8
800	31	2,029	15.0	10.0	10	6.6
750	31	2,575	12.4	7.2	10	7.1
700	31	3,151	9.4	3.6	09	7.1
650	31	3,764	6.1	-.2	09	7.6
600	31	4,416	2.4	-4.9	09	8.0
550	31	5,115	-1.4	-10.0	09	7.6
500	31	5,864	-5.6	-14.4	10	6.8
450	31	6,688	-10.3	-20.7	10	6.1
400	31	7,587	-15.8	-25.7	11	4.9
350	31	8,583	-22.7	-32.2	12	3.6
300	31	9,692	-31.0	-39.8	12	2.3
250	31	10,958	-41.4	-46.8	15	.9
200	31	12,432	-53.9		27	2.8
175	31	13,277	-60.4		28	4.4
150	31	14,220	-68.1		27	7.1
125	31	15,302	-73.1		25	4.8
100	31	16,601	-74.1		10	4.2
80	31	17,912	-70.5		09	11.2
70	31	18,712	-66.6		09	13.5
60	31	19,652	-63.3		09	12.1
50	31	20,784	-59.2		09	7.6
40	30	22,195	-55.9		12	3.7
30	30	24,039	-53.0		12	1.6
25	29	25,224	-50.0		12	2.3
20	27	26,692	-47.4		10	2.1
15	22	28,607	-45.5		11	5.7

* MEDFORD, OR
959 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind	
					Direction tens of deg	Speed m p s
SFC	31	401	15.0	9.4	31	.7
1000						
950	31	568	17.0	9.1	29	1.1
900	31	1,029	15.5	6.9	30	1.3
850	31	1,512	13.7	4.6	07	.5
800	31	2,022	12.4	.0	14	1.0
750	31	2,561	9.7	-2.7	19	2.9
700	31	3,131	6.3	-7.1	19	4.3
650	31	3,735	2.8	-13.3	19	5.0
600	31	4,378	-1.2	-18.2	20	5.9
550	31	5,066	-5.5	-23.0	20	7.3
500	31	5,806	-10.6	-28.1	21	8.2
450	31	6,609	-16.1	-31.9	21	10.0
400	31	7,485	-22.4	-37.8	22	10.8
350	31	8,455	-29.4	-44.1	22	13.0
300	31	9,534	-37.8	-50.2	22	14.5
250	31	10,769	-45.6		23	16.1
200	31	12,233	-52.3		23	17.0
175	31	13,090	-55.4		23	16.3
150	31	14,067	-58.1		23	13.1
125	31	15,209	-60.7		22	8.1
100	31	16,593	-61.3		19	4.1
80	31	17,983	-59.5		15	3.1
70	31	18,821	-58.8		11	4.3
60	31	19,793	-57.2		10	6.0
50	31	20,952	-55.4		10	7.1
40	30	22,383	-53.3		09	9.4
30	29	24,246	-50.7		09	11.8
25	28	25,440	-48.8		09	12.9
20	27	26,917	-46.1		09	14.2
15	24	28,839	-43.9		09	16.3
10	17	31,581	-39.9		09	19.6
7	6	34,018	-35.6			

MERIDA, MEXICO
1013 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind	
					Direction tens of deg	Speed m p s
SFC	31	11	22.9	22.1	10	.7
1000	31	128	24.3	22.2	12	4.0
950	31	578	23.0	17.9	13	7.8
900	31	1,049	21.0	11.7	13	7.4
850	31	1,542	18.3	7.2	12	6.6
800	31	2,059	15.1	-.2	12	6.2
750	31	2,602	11.9	-.7	12	5.8
700	31	3,176	8.3	-5.0	11	5.1
650	31	3,785	4.7	-9.2	11	4.8
600	31	4,432	.9	-11.1	10	4.2
550	31	5,127	-3.0	-14.7	10	4.6
500	31	5,876	-7.5	-19.4	09	4.7
450	31	6,689	-12.4	-24.6	09	4.9
400	31	7,579	-18.3	-30.5	08	3.9
350	31	8,365	-25.2	-38.6	07	4.1
300	31	9,664	-33.6	-46.0	07	4.0
250	31	10,917	-43.5		07	3.5
200	31	12,379	-55.4		05	3.6
175	29	13,222	-61.3		04	3.9
150	29	14,164	-67.5		03	5.4
125	29	15,252	-71.0		05	6.2
100	29	16,571	-70.9		06	8.3
80	29	17,899	-68.4		08	11.3
70	29	18,705	-65.7		08	12.2
60	29	19,648	-63.2		08	13.7
50	29	20,776	-60.5		08	16.0
40	28	22,180	-56.8		09	17.5
30	27	24,020	-53.3		09	16.9
25	26	25,202	-50.8		09	16.5
20	23	26,670	-47.4		09	17.4
15	19	28,588	-44.7		08	16.6
10	6	31,269	-43.7			

MIAMI, FL
1017 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind	
					Direction tens of deg	Speed m p s
SFC	31	4	24.8	23.1	06	.4
1000	31	154	25.7	21.7	12	1.0
950	31	605	22.7	19.1	15	2.6
900	31	1,075	19.8	14.4	16	2.3
850	31	1,566	16.6	10.2	18	1.9
800	31	2,081	13.8	6.9	18	1.9
750	31	2,622	10.8	2.6	19	1.8
700	31	3,194	7.3	-1.9	20	1.9
650	31	3,801	4.0	-6.1	21	1.7
600	31	4,448	.2	-10.3	20	1.6
550	31	5,140	-3.8	-13.9	19	1.0
500	31	5,887	-8.3	-19.2	17	1.0
450	31	6,698	-13.0	-24.3	12	1.3
400	31	7,586	-18.7	-30.2	08	1.5
350	31	8,572	-25.5	-36.8	05	2.2
300	31	9,668	-34.0	-45.4	06	3.6
250	31	10,918	-44.3		04	5.0
200	31	12,375	-56.3		03	7.0
175	31	13,211	-62.2		03	8.7
150	31	14,152	-67.2		04	7.5
125	31	15,245	-68.9		06	5.1
100	31	16,579	-68.7		09	5.9
80	31	17,920	-66.9		08	9.6
70	31	18,731	-65.2		08	12.9
60	31	19,676	-62.6		08	16.3
50	31	20,808	-59.7		09	19.1
40	31	22,213	-56.5		09	21.0
30	30	24,053	-53.2		10	21.3
25	30	25,234	-50.8		09	20.8
20	25	26,693	-47.9		09	21.5
15	22	28,604	-45.3		09	23.4
10	7	31,342	-41.7			

MIDLAND, TX
917 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind	
					Direction tens of deg	Speed m p s
SFC	31	874	20.1	17.2	14	1.8
1000						
950						
900	31	1,034	20.9	16.1	17	4.2
850	31	1,528	19.0	12.4	18	7.0
800	31	2,048	16.4	8.0	17	3.9
750	31	2,595	12.8	5.7	16	2.7
700	31	3,171	9.1	1.0	14	2.3
650	31	3,781	5.2	-2.8	13	1.6
600	30	4,432	1.3	-6.4	13	.9
550	30	5,127	-2.9	-12.7	11	1.2
500	30	5,877	-7.1	-18.2	14	1.4
450	30	6,691	-12.2	-22.4	26	.1
400	30	7,582	-17.9	-29.5	33	.3
350	30	8,570	-24.8	-36.7	36	1.7
300	30	9,670	-33.2	-45.1	35	2.1
250	30	10,924	-43.4		36	3.7
200	30	12,387	-55.0		35	5.6
175	30	13,229	-61.0		36	6.5
150	30	14,174	-66.8		01	5.7
125	30	15,264	-70.6		04	5.7
100	28	16,590	-69.1		07	7.9
80	28	17,936	-65.2		08	9.4
70	27	18,754	-63.4		08	9.5
60	27	19,707	-61.2		08	12.2
50	27	20,845	-58.8		09	14.9
40	27	22,254	-56.3		09	17.2
30	27	24,099	-52.4		09	18.9
25	26	25,284	-50.1		09	19.6
20	25	26,750	-47.4		09	20.5
15	23	28,671	-44.4		09	21.4
10	12	31,399	-40.6			

MONTERREY, MEXICO
963 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind	
					Direction tens of deg	Speed m p s
SFC	29	423	22.3	20.2	11	1.0
1000						
950	29	570	21.7	19.7	12	2.5
900	29	1,039	19.2	16.8	14	5.5
850	29	1,531	18.3	11.7	14	7.8
800	29	2,050	16.1	5.5	14	6.9
750	29	2,596	13.2	1.0	14	5.4
700	29	3,173	9.7	-2.5	13	2.9
650	29	3,784	5.8	-6.2	11	2.1
600	29	4,435	1.6	-9.5	10	1.9
550	29	5,130	-2.8	-13.2	09	2.1
500	29	5,880	-7.3	-18.2	09	3.3
450	29	6,693	-12.2	-24.2	08	4.5
400	29	7,585	-17.7	-30.5	08	4.8
350	29	8,573	-24.7	-37.1	08	4.5
300	29	9,673	-33.1	-45.7	06	4.1
250	29	10,928	-43.2		06	4.5
200	29	12,392	-53.2		05	5.5
175	29	13,232	-61.6		04	6.6
150	29	14,173	-68.0		05	6.7
125	28	15,256	-72.3		06	7.9
100	28	16,573	-70.5		08	10.0
80	26	17,910	-66.9		08	10.9
70	26	18,720	-65.4		08	12.6
60	22	19,668	-62.6		08	14.8
50	22	20,799	-60.1		08	17.0
40	21	22,200	-57.9		08	19.4
30	20	24,033	-53.6		09	22.2
25	19	25,213	-51.4		09	22.0
20	18	26,672	-48.0		09	21.0
15	14	28,588	-45.9		08	23.1
10	10	31,307	-41.9			

RAWINSONDE DATA

Average monthly values

JULY 1975

MONETT, MO
966 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	31	436	19.6	17.4	15	1.2
1000						
950	31	583	22.4	17.3	21	1.7
900	31	1,055	21.1	14.2	25	1.6
850	31	1,547	17.5	11.6	28	2.3
800	31	2,063	13.8	8.8	31	2.0
750	31	2,605	10.5	3.2	32	2.4
700	31	3,176	6.8	-.5	31	2.7
650	31	3,782	3.5	-6.7	31	2.9
600	31	4,428	.1	-12.9	30	2.9
550	31	5,120	-3.7	-17.7	30	3.2
500	31	5,867	-8.2	-23.6	31	3.7
450	31	6,677	-13.4	-27.7	32	4.6
400	31	7,562	-19.7	-34.3	32	5.4
350	31	8,542	-26.9	-41.5	32	6.8
300	31	9,632	-35.6	-47.4	31	8.5
250	31	10,877	-44.8		31	11.0
200	31	12,337	-54.3		32	10.8
175	31	[illegible]	-59.3		32	9.7
150	31	14,138	-63.7		34	8.5
125	31	15,249	-66.1		35	5.6
100	31	16,602	-65.9		03	4.4
80	29	17,966	-63.1		06	6.8
70	29	18,791	-61.3		07	8.0
60	29	19,753	-59.0		08	9.7
50	29	[illegible]	-56.8		09	10.3
40	29	22,325	-54.3		09	11.7
30	29	24,179	-52.3		09	14.4
25	28	25,361	-50.7		08	16.2
20	23	26,826	-47.4		08	18.8
15	18	28,748	-43.6		09	19.8
10	9	31,503	-40.9			

NASHVILLE, TN
995 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	31	180	[illegible]	18.4	18	.6
1000	6	187	[illegible]	17.9		
950	31	584	[illegible]	15.8	[illegible]	1.8
900	31	1,052	18.8	13.1	26	1.6
850	31	1,541	15.4	10.0	27	3.3
800	31	2,053	12.7	4.1	27	3.3
750	31	2,593	7.5	1.1	27	3.8
700	31	3,162	[illegible]	[illegible]	28	3.8
650	31	3,766	3.2	[illegible]	29	3.7
600	31	4,411	[illegible]	-14.7	28	4.2
550	31	5,103	[illegible]	[illegible]	29	4.6
500	31	5,848	[illegible]	-22.3	28	5.2
450	31	6,655	-14.2	-26.7	28	5.7
400	31	7,537	[illegible]	-34.3	29	6.6
350	30	8,516	-27.5	-39.5	29	8.4
300	30	9,604	-35.8	-45.6	29	10.7
250	30	10,846	[illegible]		29	13.5
200	30	12,304	-54.6		29	13.8
175	30	13,150	-59.0		30	12.9
150	30	14,106	-63.4		31	9.6
125	30	15,223	-64.5		33	3.8
100	30	16,584	-65.0		[illegible]	2.4
80	30	17,953	-62.4		07	5.9
70	30	18,781	-60.5		08	7.3
60	30	19,745	-58.9		08	9.5
50	30	20,896	-56.7		08	11.7
40	30	22,319	-53.8		09	13.8
30	30	24,181	-50.6		09	15.0
25	28	25,374	-49.1		09	15.9
20	27	26,847	-47.0		09	17.9
15	24	28,769	-44.5		09	22.3
10	5	31,519	-38.9			

* NOME, AK
1010 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	31	5	8.8	6.4	32	.5
1000	31	90	10.9	6.2	32	.2
950	31	519	10.2	3.7	17	1.2
900	31	967	8.1	1.5	19	3.1
850	31	1,437	5.7	[illegible]	19	3.1
800	31	1,931	3.3	-4.6	20	2.9
750	31	2,453	1.0	[illegible]	20	3.2
700	31	3,004	-2.0	-14.8	20	3.1
650	31	3,570	[illegible]	-18.2	20	3.2
600	31	4,215	-8.6	-21.5	20	3.9
550	31	4,885	-12.5	-25.4	19	3.3
500	31	5,606	-17.2	-30.0	20	3.5
450	31	6,388	-22.6	-34.8	20	3.0
400	31	7,241	-29.1	-40.4	19	2.3
350	31	8,185	-36.2	-46.3	20	2.4
300	31	9,235	-44.5		21	2.4
250	31	10,432	-52.3		19	3.7
200	30	11,868	-50.7		20	2.5
175	30	12,744	-48.2		20	2.3
150	30	13,762	-47.9		20	1.9
125	30	14,966	-47.7		19	1.5
100	30	16,440	-47.4		14	1.1
80	30	17,916	-47.0		13	1.6
70	30	18,802	-46.7		12	2.2
60	30	19,825	-46.5		10	2.1
50	29	21,033	-46.2		10	2.6
40	29	22,518	-45.8		10	3.8
30	28	24,439	-44.0		09	5.1
25	26	25,667	-43.2		09	5.7
20	25	27,175	-41.5		08	7.5
15	22	29,131	-39.2		09	8.9
10	17	31,929	-34.9		09	11.0

NORTH PLATTE, NE
919 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	31	847	17.1	13.3	15	1.3
900	31	1,026	19.6	12.7	18	3.1
850	31	1,520	20.0	8.9	21	5.3
800	31	2,041	17.3	5.7	24	3.7
750	31	2,589	13.4	3.1	27	2.6
700	31	3,165	9.3	-1.4	29	3.0
650	31	3,776	5.6	-6.4	30	3.6
600	31	4,426	1.5	-11.8	31	3.7
550	31	5,121	-3.0	-16.6	31	4.0
500	31	5,869	-8.1	-22.0	30	4.3
450	31	6,681	-12.7	-29.0	31	4.8
400	31	7,569	-19.1	-36.0	31	5.7
350	31	8,552	-26.4	-41.4	32	6.5
300	31	9,643	-35.3	-49.1	33	7.2
250	31	10,888	-45.0		32	8.5
200	31	12,346	-54.3		[illegible]	9.9
175	31	13,194	-58.3		31	9.1
150	31	14,155	-62.4		32	7.9
125	31	15,274	-64.5		33	5.6
100	31	16,638	-64.0		36	3.8
80	31	18,012	-61.6		05	4.3
70	31	18,843	-60.1		07	5.7
60	30	19,808	-58.0		07	6.5
50	30	20,964	-55.9		08	8.4
40	30	22,392	-53.3		08	10.8
30	28	24,260	-50.3		09	12.2
25	26	25,454	-49.0		09	13.6
20	28	26,927	-46.7		09	15.3
15	25	28,853	-43.9		09	16.8
10	16	31,603	-39.9		09	19.5

OAKLAND, CA
1014 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	31	6	13.1	11.4	25	1.2
1000	31	120	12.5	10.9	25	1.5
950	31	551	14.0	7.5	[illegible]	2.3
900	31	1,014	[illegible]	.2	[illegible]	2.8
850	31	1,505	18.4	-3.4	27	2.4
800	31	[illegible]	15.0	-6.0	24	2.4
750	31	2,560	12.7	-8.8	22	3.2
700	31	[illegible]	9.3	-12.1	22	4.4
650	31	3,751	[illegible]	-15.7	[illegible]	5.3
600	31	4,400	[illegible]	[illegible]	[illegible]	5.9
550	31	5,095	-3.1	-21.4	[illegible]	[illegible]
500	31	5,842	-8.3	-26.2	22	8.7
450	31	6,652	[illegible]	-29.9	[illegible]	10.9
400	31	7,530	[illegible]	-35.4	22	12.3
350	31	8,516	-27.1	[illegible]	22	[illegible]
300	31	9,605	-35.0	[illegible]	22	15.8
250	31	10,849	-44.7		22	17.7
200	31	12,312	-53.6		[illegible]	16.2
175	31	13,163	[illegible]		23	15.3
150	31	14,127	-61.7		[illegible]	12.9
125	31	15,248	-64.4		22	8.8
100	31	16,610	-64.5		[illegible]	3.2
80	30	17,980	-62.0		[illegible]	4.9
70	30	18,807	-61.5		[illegible]	[illegible]
60	30	19,767	-59.7		09	7.9
50	30	20,913	-57.6		09	9.2
40	29	22,328	-55.2		09	11.3
30	29	24,177	-52.5		09	14.7
25	26	25,358	[illegible]		09	16.4
20	23	26,817	-48.2		09	16.9
15	21	28,720	-45.5		09	16.7
10	7	31,447	-42.9			

OMAHA, NE
968 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	29	403	19.8	14.9	21	.8
1000						
950	29	565	22.2	12.9	23	2.4
900	29	1,035	20.8	9.8	25	4.9
850	29	1,526	17.8	7.0	27	4.5
800	29	2,043	14.7	2.9	30	4.7
750	29	2,586	11.4	-1.0	30	4.9
700	29	3,158	7.6	-3.5	30	5.2
650	29	3,765	3.9	-7.9	30	5.3
600	29	[illegible]	.1	-13.5	31	5.8
550	29	5,103	-3.9	-19.4	32	6.1
500	29	5,850	-8.6	-24.0	32	8.0
450	29	6,659	-13.5	-29.0	33	8.3
400	29	7,545	-19.7	-34.9	33	9.8
350	29	8,524	-27.2	-40.7	32	10.6
300	29	9,612	-35.8	-48.1	32	12.1
250	29	10,854	-45.6		32	12.8
200	29	12,313	-54.0		32	13.3
175	28	13,160	-57.7		32	12.2
150	28	14,124	-61.3		32	10.7
125	28	15,251	-63.0		33	9.0
100	28	16,623	-63.3		35	4.7
80	27	18,007	[illegible]		04	4.3
70	27	18,841	-59.0		06	5.2
60	27	19,813	-57.2		07	6.4
50	27	20,972	-54.9		07	7.9
40	27	22,408	-52.6		09	10.1
30	27	24,278	-49.6		09	11.9
25	26	25,476	-48.0		09	13.1
20	25	26,956	-45.5		08	15.3
15	20	28,897	-42.5		09	17.8
10	13	31,655	-38.1		09	21.3

PAGO PAGO, AMERICAN SAMOA
♦ 1014 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	30	5	28.2	23.0	09	6.7
1000	30	125	25.7	21.4	09	7.0
950	30	575	22.1	19.3	08	7.3
900	30	1,043	18.7	15.4	08	7.7
850	30	1,533	16.2	8.7	08	7.3
800	30	2,047	14.0	5.9	08	7.2
750	30	2,590	11.7	.9	08	6.5
700	30	3,165	8.9	-5.9	08	5.0
650	30	3,774	5.3	-8.6	08	4.4
600	30	4,424	1.5	-13.4	07	3.0
550	30	5,119	-2.5	-20.3	04	2.3
500	30	5,869	-7.0	-23.1	06	1.1
450	30	6,683	-12.2	-27.7	04	.2
400	30	7,573	-18.3	-32.8	27	1.6
350	29	8,559	-25.1	-40.7	26	2.7
300	29	9,657	-33.8	-47.9	24	5.4
250	29	10,909	-43.8		24	6.7
200	29	12,368	-55.8		24	9.4
175	29	13,207	-62.1		25	9.5
150	29	14,146	-68.1		26	9.8
125	28	15,227	-73.1		27	6.7
100	28	16,527	-74.9		29	3.9
80	27	17,830	-71.4		26	1.8
70	26	18,628	-67.0		34	.3
60	26	19,566	-64.0		06	2.1
50	26	20,690	-61.9		07	1.9
40	25	22,077	-59.9		01	.9
30	25	23,892	-55.1		29	4.9
25	25	25,064	-52.4		28	7.7
20	24	26,517	-49.6		27	7.8
15	22	28,420	-46.0		28	8.0
10	16	31,139	-42.4		27	9.0
	7	33,551	-39.2			

* PEORIA, IL
992 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	31	200	18.0	15.4	28	.2
950	31	576	21.1	12.6	26	2.3
900	31	1,042	18.3	10.6	28	3.8
850	31	1,529	14.8	6.9	29	4.3
800	31	2,040	12.2	1.9	30	5.0
750	31	2,579	9.5	-3.6	30	5.4
700	31	3,148	6.3	-8.3	31	5.3
650	31	3,752	2.7	-11.5	31	5.7
600	31	4,395	-1.1	-17.0	31	6.4
550	31	5,083	-5.7	-20.2	31	6.9
500	31	5,823	-10.4	-25.9	31	7.3
450	31	6,627	-15.6	-30.5	31	8.9
400	31	7,505	-21.9	-36.7	31	10.4
350	31	8,476	-29.1	-41.0	31	11.6
300	31	9,557	-37.1	-48.6	32	14.0
250	31	10,795	-45.6		32	14.8
200	31	12,255	-53.4		32	15.8
175	31	13,108	-57.3		32	14.0
150	31	14,075	-60.4		33	11.4
125	31	15,205	-62.3		33	7.9
100	31	16,584	-61.9		36	4.0
80	31	17,968	-60.6		04	3.9
70	31	18,803	-58.5		06	5.3
60	31	19,776	-56.9		07	6.7
50	30	20,936	-54.9		08	8.4
40	27	22,368	-52.8		08	9.7
30	26	24,235	-49.7		09	12.3
25	23	25,438	-48.3		09	13.6
20	19	26,915	-45.6		09	15.6
15	12	28,854	-42.5		09	18.9

* PITTSBURGH, PA
975 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	31	359	18.1	14.7	24	.8
950	31	581	19.5	14.2	25	1.7
900	31	1,047	17.4	11.1	27	2.9
850	31	1,533	13.9	8.1	27	3.6
800	31	2,042	11.0	3.1	27	4.4
750	31	2,578	8.3	-3.1	27	5.6
700	31	3,145	5.3	-7.3	27	6.1
650	31	3,747	2.3	-13.0	26	6.3
600	31	4,390	-1.5	-16.3	26	7.1
550	31	5,078	-5.6	-21.2	26	7.9
500	31	5,818	-10.3	-26.0	26	8.3
450	31	6,622	-15.5	-30.6	25	8.7
400	31	7,500	-21.8	-36.9	25	9.3
350	31	8,471	-29.2	-41.2	24	10.4
300	31	9,551	-37.6	-47.2	24	11.7
250	31	10,783	-47.2		24	12.0
200	31	12,229	-55.8		26	11.9
175	31	13,076	-57.5		27	10.0
150	31	14,046	-59.5		27	8.1
125	31	15,184	-60.9		28	6.1
100	31	16,568	-61.0		29	2.2
80	31	17,959	-59.5		06	2.0
70	31	18,798	-58.3		08	3.9
60	30	19,772	-56.8		08	6.1
50	30	20,933	-55.0		09	8.6
40	29	22,366	-52.9		09	10.5
30	29	24,236	-49.7		09	12.8
25	28	25,435	-48.4		09	13.7
20	26	26,912	-45.7		09	15.5
15	20	28,844	-42.9		09	17.8

PONAPE, CAROLINE IS.
♦ 1005 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	31	39	28.1	23.8	06	2.1
1000	31	83	26.7	22.8	07	2.5
950	31	535	23.1	20.1	10	3.9
900	31	1,000	19.9	17.4	[illegible]	5.5
850	31	1,497	17.1	13.0	[illegible]	6.1
800	31	2,014	15.0	9.3	10	5.7
750	31	2,559	[illegible]	6.5	09	5.8
700	31	3,135	9.0	1.9	09	6.5
650	31	3,746	5.5	-.3	09	7.3
600	31	4,397	1.9	-4.5	09	8.0
550	31	5,095	-1.7	-8.6	09	7.3
500	31	5,848	-5.9	-14.3	09	6.4
450	30	6,667	-10.7	-20.3	09	5.7
400	30	7,564	-16.3	-27.0	10	4.6
350	30	8,559	-23.1	-35.0	10	4.0
300	30	9,666	-31.6	-44.7	09	2.8
250	30	10,929	-41.9		06	1.4
200	30	12,399	-54.5		01	1.9
175	30	13,241	-61.4		34	2.0
150	29	14,178	-69.3		32	2.7
125	29	15,249	-75.1		29	2.2
100	29	16,540	-75.3		09	3.8
80	29	17,845	-71.5		09	11.6
70	28	18,642	-68.2		09	13.9
60	28	19,576	-64.7		09	13.7
50	28	20,703	-60.0		09	8.8
40	27	22,104	-56.9		10	4.2
30	26	23,940	-54.0		11	2.8
25	26	25,119	-51.2		13	2.2
20	25	26,576	-48.6		13	1.6
15	23	28,471	-47.1		11	5.0
10	10	31,150	-44.3			

PORTLAND, ME
1013 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	31	20	18.3	16.5	24	1.0
1000	31	128	19.3	15.1	25	2.3
950	31	570	19.1	12.1	25	4.5
900	31	1,034	16.9	8.9	25	4.9
850	31	1,519	13.6	5.2	25	5.5
800	31	[illegible]	10.5	2.5	25	6.0
750	31	2,563	7.7	-1.6	25	7.4
700	31	3,129	4.5	-5.0	25	8.6
650	31	3,729	1.4	-8.6	25	9.3
600	31	4,370	-2.0	-15.2	25	10.1
550	31	5,057	-5.9	-18.3	25	10.6
500	31	5,798	-10.4	-23.1	25	11.7
450	30	6,603	-15.7	-28.7	25	12.5
400	30	7,481	-21.9	-33.9	25	13.0
350	30	8,453	-29.0	-41.4	25	14.0
300	30	9,533	-37.4	-46.9	25	14.6
250	30	10,767	-46.8		25	13.9
200	30	12,218	-55.1		25	14.7
175	30	13,068	-57.0		25	13.4
150	30	14,040	-58.5		25	11.7
125	30	15,185	-59.0		25	10.9
100	30	16,588	-58.3		25	5.0
80	30	17,996	-57.0		20	1.0
70	30	18,845	-56.0		13	1.9
60	30	[illegible]	-55.0		11	3.8
50	29	20,797	-53.5		[illegible]	[illegible]
40	27	22,439	-51.5		09	7.9
30	26	24,319	-49.0		09	10.7
25	28	25,519	-47.6		09	12.2
20	24	27,000	-45.9		09	14.4
15	18	28,928	-42.7		09	16.4
10	8	31,704	-38.3			
7						

* QUILLAYUTE, WA
1011 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	31	58	11.2	10.3	01	.2
1000	31	147	11.3	10.3	32	.4
950	31	575	10.9	6.1	32	1.9
900	31	1,028	12.5	1.7	[illegible]	2.6
850	31	1,506	11.1	-2.9	28	1.9
800	31	2,011	9.2	-5.3	25	2.1
750	31	2,543	6.3	-7.4	23	2.7
700	31	[illegible]	3.4	-12.1	23	4.1
650	31	[illegible]	.0	-15.1	23	5.3
600	31	4,339	-3.8	-19.3	23	6.8
550	31	5,020	-8.2	-23.6	23	7.6
500	31	5,753	-13.4	-27.9	[illegible]	9.6
450	30	6,550	-18.3	-33.3	[illegible]	10.8
400	30	7,418	-24.7	-37.8	23	12.6
350	30	8,378	-32.0	-44.7	24	14.1
300	30	9,447	-39.8	-50.6	24	15.0
250	30	10,671	-47.8		24	15.6
200	30	12,124	-52.9		23	17.5
175	30	12,984	-53.7		23	17.1
150	30	13,972	-55.3		24	13.5
125	30	15,130	[illegible]		23	[illegible]
100	30	16,539	-57.0		[illegible]	[illegible]
80	30	17,953	-56.6		19	[illegible]
70	30	18,801	-56.2		[illegible]	[illegible]
60	30	19,783	-55.0		[illegible]	3.5
50	30	20,952	-53.5		10	5.0
40	30	[illegible]	-51.9		09	6.9
30	30	24,267	-49.6		[illegible]	8.8
25	28	25,467	-48.0		[illegible]	[illegible]
20	26	26,946	-45.3		[illegible]	[illegible]
15	23	28,873	-42.9		[illegible]	13.4
10	11	[illegible]	[illegible]			

RAPID CITY, SD
905 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	31	966	17.1	11.7	31	.5
900	26	1,028	18.9	11.3	31	.8
850	31	1,510	20.8	6.6	24	2.8
800	31	2,033	18.3	3.7	25	3.2
750	31	2,582	14.6	.1	28	4.0
700	31	3,160	10.0	-2.7	28	5.0
650	31	3,772	5.5	-5.7	29	5.9
600	31	4,421	.7	-9.6	30	6.6
550	31	5,114	[illegible]	-14.5	30	6.7
500	31	5,860	-8.5	-22.7	29	7.0
450	31	6,669	-13.5	[illegible]	29	7.5
400	31	[illegible]	-19.9	[illegible]	30	9.0
350	31	8,534	-27.1	-40.3	29	10.4
300	29	9,619	-35.8	-47.5	30	12.4
250	28	10,861	-45.4		29	12.9
200	28	12,318	-54.7		30	14.5
175	28	13,166	-58.1		30	13.5
150	28	14,128	-61.6		30	11.7
125	28	15,252	-63.5		[illegible]	8.6
100	28	16,623	-62.8		32	4.6
80	28	18,007	[illegible]		02	3.1
70	28	18,843	-58.7		05	3.8
60	29	19,814	-57.5		08	4.9
50	[illegible]	20,974	-54.8		08	6.7
40	[illegible]	[illegible]	-52.9		08	9.6
30	23	24,278	-49.9		08	10.2
25	22	25,471	[illegible]		08	11.5
20	22	26,950	[illegible]		09	13.6
15	17	28,874	-42.7		09	15.4
10	7	31,644	-39.0			

ST CLOUD, MN
978 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	31	316	16.7	14.2	20	.6
950	31	565	19.8	11.8	24	3.6
900	31	1,031	18.9	8.3	26	5.8
850	31	1,519	15.8	5.7	28	5.4
800	31	2,031	12.4	2.5	29	5.6
750	31	2,570	9.4	-2.9	30	6.6
700	31	3,139	6.2	-8.7	31	8.0
650	31	3,742	2.7	-12.6	31	9.4
600	31	4,385	-1.2	-16.2	31	9.9
550	31	5,073	-5.9	-20.9	31	11.1
500	31	5,813	-10.9	-25.3	31	12.4
450	31	6,615	-15.7	-30.8	31	13.7
400	31	7,493	-21.9	-35.4	31	14.8
350	31	8,465	-29.0	-41.4	31	15.3
300	31	9,545	-37.5	-47.8	31	17.2
250	31	10,779	-46.5		31	18.8
200	31	12,235	-53.5		31	20.0
175	31	13,089	-56.1		31	18.0
150	31	14,064	-58.3		31	14.7
125	31	15,206	-60.2		32	10.8
100	31	16,601	-59.2		33	5.0
80	30	18,008	-57.8		01	3.4
70	30	18,851	-57.1		03	3.3
60	30	19,831	-55.8		06	4.7
50	30	20,996	[illegible]		[illegible]	6.3
40	30	22,436	-51.9		08	8.2
30	29	24,314	-48.9		[illegible]	10.6
25	29	25,517	-47.2		[illegible]	11.6
20	28	27,003	[illegible]		08	13.1
15	24	28,935	[illegible]		09	16.4
10	8	31,735	-36.4			

* ST PAUL ISLAND, AK
1010 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	29	10	5.5	5.4	12	.8
1000	28	97	5.3	4.8	12	[illegible]
950	29	514	5.7	2.8	14	2.3
900	29	957	5.2	1.5	15	2.6
850	29	1,423	4.4	.6	14	3.1
800	29	1,916	2.7	-2.4	14	3.6
750	29	2,437	.3	-6.7	15	4.3
700	29	2,987	-2.7	-11.1	15	4.1
650	29	3,572	-5.7	-14.9	15	4.2
600	29	4,195	-9.2	-22.6	15	[illegible]
550	29	4,863	-13.3	-27.2	15	4.3
500	29	5,582	-17.9	-32.8	15	5.2
450	28	6,362	-23.0	-36.4	15	[illegible]
400	28	7,214	-29.4	-41.4	15	[illegible]
350	28	8,157	-36.2	-45.0	16	[illegible]
300	28	9,200	-44.2		16	[illegible]
250	28	10,409	-51.0		[illegible]	[illegible]
200	28	11,863	-48.0		[illegible]	[illegible]
175	27	12,745	[illegible]		[illegible]	[illegible]
150	27	13,763	-47.9		[illegible]	[illegible]
125	27	14,964	-48.6		[illegible]	[illegible]
100	27	16,430	-48.8		[illegible]	[illegible]
80	27	17,896	[illegible]		[illegible]	[illegible]
70	26	18,770	-48.6		[illegible]	[illegible]
60	26	[illegible]	[illegible]		[illegible]	[illegible]
50	26	20,989	[illegible]		[illegible]	[illegible]
40	24	22,464	[illegible]		[illegible]	[illegible]
30	24	24,370	[illegible]		[illegible]	[illegible]
25	24	25,585	[illegible]		[illegible]	[illegible]
20	24	[illegible]	[illegible]		[illegible]	[illegible]
15	23	29,021	[illegible]		09	8.0
10	[illegible]	[illegible]	[illegible]		09	[illegible]
7	5	[illegible]	[illegible]			

RAWINSONDE DATA

Average monthly values

JULY 1975

SALEM, IL
995 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	174	19.6	16.6	05	.2
1000	A	179	20.7	12.8		
950	31	577	22.0	13.3	26	2.6
900	31	1,045	19.2	11.0	29	3.8
850	31	1,534	15.9	8.5	30	4.3
800	31	2,047	12.7	3.1	30	4.6
750	31	2,586	9.6	-3.0	30	4.5
700	31	3,156	6.9	-9.4	31	4.5
650	31	3,761	3.6	-12.1	31	5.4
600	31	4,407	-.2	-16.5	31	5.8
550	31	5,097	-4.6	-21.1	30	6.0
500	31	5,840	-9.4	-26.0	30	7.0
450	31	6,646	-14.7	-30.7	30	7.3
400	31	7,527	-21.2	-36.1	30	7.9
350	31	8,501	-28.5	-41.1	31	9.5
300	30	9,582	-36.6	-46.7	30	11.3
250	29	10,819	-45.3		31	14.8
200	29	12,281	-53.6		31	15.3
175	29	13,131	-57.9		31	13.8
150	29	14,096	-60.8		32	11.2
125	29	15,225	-62.4		33	6.2
100	29	16,600	-62.7		36	2.9
80	29	17,980	-61.1		05	4.4
70	29	18,614	-59.2		07	6.3
60	29	19,784	-57.4		08	7.9
50	28	20,945	-54.8		08	10.0
40	28	22,379	-52.6		09	11.7
30	28	24,249	-50.0		09	13.6
25	28	25,445	-48.4		09	15.1
20	28	26,924	-45.7		09	17.7
15	25	28,856	-42.3		09	20.9
10	9	31,612	-38.4			
7						

SALEM, OR
1009 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	61	13.0	10.7	31	.6
1000	31	139	14.6	10.6	35	1.0
950	31	573	13.9	9.6	02	2.5
900	31	1,029	13.6	7.4	36	1.7
850	31	1,510	12.5	1.7	31	1.5
800	31	2,018	11.1	-2.5	28	1.2
750	31	2,554	8.8	-6.3	24	2.5
700	31	3,122	5.8	-9.1	22	3.8
650	31	3,724	2.1	-13.4	21	4.5
600	31	4,366	-2.0	-16.5	21	5.9
550	31	5,052	-6.4	-21.7	21	7.6
500	31	5,790	-11.4	-26.0	22	8.5
450	31	6,589	-17.1	-32.5	22	8.9
400	31	7,462	-23.4	-37.8	23	10.1
350	31	8,428	-30.4	-43.4	23	12.3
300	31	9,503	-38.5	-51.0	23	13.6
250	31	10,734	-46.5		23	14.7
200	31	12,194	-52.4		23	16.7
175	31	13,054	-54.5		23	16.6
150	31	14,036	-56.7		23	14.3
125	31	15,186	-58.9		23	8.6
100	31	16,584	-59.3		21	5.5
80	31	17,986	-58.3		17	3.0
70	31	18,828	-57.4		13	3.3
60	31	19,805	-56.2		11	4.6
50	31	20,968	-54.7		10	5.8
40	31	22,402	-52.9		09	7.7
30	30	24,272	-50.0		09	10.2
25	29	25,467	-48.4		09	11.4
20	27	26,944	-46.1		09	13.3
15	26	28,869	-43.4		09	15.3
10	22	31,621	-39.5		09	17.8
7	5	34,083	-34.7			

SALT LAKE CITY, UT
871 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	1,286	19.6	9.7	16	3.6
1000						
950						
900						
850	31	1,503	22.5	6.0	16	4.5
800	31	2,029	20.5	2.4	17	5.2
750	31	2,582	16.6	-.4	19	4.0
700	31	3,164	11.9	-3.4	22	3.9
650	31	3,780	7.0	-5.4	22	5.0
600	31	4,432	1.6	-7.5	22	5.3
550	31	5,126	-3.8	-11.2	23	5.8
500	31	5,872	-8.9	-17.6	23	5.6
450	31	6,680	-13.8	-25.2	23	6.5
400	31	7,566	-19.4	-32.9	23	7.4
350	31	8,547	-26.6	-39.4	23	8.5
300	31	9,638	-35.2	-47.5	23	9.5
250	31	10,883	-44.8		23	11.8
200	31	12,343	-54.6		24	12.4
175	31	13,189	-59.1		24	11.9
150	31	14,144	-63.7		25	9.6
125	31	15,256	-65.9		22	5.5
100	31	16,611	-65.2		18	2.0
80	31	17,977	-62.8		11	3.9
70	30	18,804	-60.6		10	5.6
60	29	19,768	-59.1		08	7.1
50	29	20,919	-56.5		09	9.4
40	29	22,342	-54.3		09	10.1
30	28	24,200	-51.1		08	13.1
25	28	25,390	-49.3		09	14.5
20	26	26,862	-46.7		09	15.9
15	23	28,781	-44.3		09	17.4
10	11	31,536	-40.7			
7						

SAN DIEGO, CA
998 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	124	16.8	14.8	17	.4
1000	8	124	16.5	14.3		
950	31	544	16.5	9.6	16	.3
900	31	1,010	22.1	1.4	25	.7
850	31	1,506	21.9	.2	26	2.2
800	31	2,029	19.5	-1.9	24	2.2
750	31	2,581	16.1	-4.2	22	3.0
700	31	3,162	11.9	-7.4	21	3.0
650	30	3,778	7.7	-10.1	19	2.9
600	30	4,432	2.8	-12.4	18	3.5
550	30	5,129	-2.3	-16.0	17	3.2
500	30	5,879	-7.1	-21.9	18	1.7
450	29	6,692	-12.3	-27.6	20	1.7
400	29	7,582	-18.4	-33.7	22	2.9
350	29	8,569	-25.0	-40.2	22	4.2
300	29	9,668	-33.3	-47.0	23	7.0
250	29	10,923	-42.9		22	8.7
200	29	12,391	-54.2		22	9.5
175	29	13,236	-60.1		21	9.2
150	29	14,183	-66.5		20	8.3
125	29	15,275	-70.6		20	5.4
100	29	16,602	-69.2		11	4.7
80	29	17,946	-65.7		09	7.6
70	29	18,761	-64.2		09	9.6
60	29	19,710	-61.8		09	11.3
50	29	20,848	-58.5		09	12.9
40	28	22,257	-56.4		09	15.0
30	27	24,095	-53.6		09	18.1
25	26	25,275	-51.4		09	19.6
20	23	26,732	-48.6		09	20.3
15	20	28,633	-45.8		09	22.2
10	12	31,358	-41.0			
7						

SAN JUAN, P. R.
1017 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	6	25.6	23.0	11	2.2
1000	31	150	24.7	21.2	11	4.3
950	31	600	21.7	18.9	11	7.8
900	31	1,068	18.6	14.8	12	8.9
850	31	1,557	15.7	10.3	12	8.9
800	31	2,070	13.6	2.7	12	8.3
750	31	2,612	11.1	-3.1	12	7.7
700	31	3,184	7.5	-7.9	12	6.9
650	31	3,790	3.7	-12.1	12	6.3
600	31	4,435	-.4	-15.9	12	6.8
550	31	5,125	-4.4	-20.6	11	5.9
500	31	5,871	-8.3	-25.0	11	5.3
450	31	6,681	-13.3	-29.9	11	4.4
400	31	7,567	-19.1	-36.2	11	3.6
350	31	8,549	-26.6	-41.9	12	2.2
300	31	9,641	-35.1	-49.4	17	1.1
250	31	10,885	-45.0		26	1.6
200	31	12,342	-55.6		27	2.7
175	31	13,182	-61.0		22	1.4
150	31	14,127	-66.5		15	1.1
125	31	15,217	-71.3		12	2.8
100	31	16,529	-72.7		11	8.1
80	31	17,848	-69.5		10	12.6
70	31	18,650	-67.0		10	15.6
60	30	19,588	-64.0		10	18.3
50	30	20,711	-61.1		11	19.8
40	30	22,108	-58.2		11	18.7
30	29	23,938	-54.3		11	17.6
25	27	25,114	-51.0		11	18.2
20	25	26,570	-48.8		11	17.7
15	22	28,481	-45.7		11	21.5
10	17	31,197	-42.2		11	25.8
7	5	33,612	-40.5			

* SAULT STE MARIE, MI
987 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	221	15.1	13.8	28	.4
1000						
950	31	546	17.6	12.4	27	4.0
900	31	1,008	15.9	10.0	28	5.3
850	31	1,492	12.9	6.5	28	5.9
800	31	2,000	9.9	3.0	28	6.5
750	31	2,533	6.6	-.8	28	7.1
700	31	3,097	3.4	-6.9	28	8.0
650	31	3,695	.4	-10.9	29	8.4
600	31	4,333	-3.3	-15.4	29	9.9
550	31	5,016	-7.6	-19.5	29	9.1
500	31	5,751	-12.2	-25.8	29	9.6
450	31	6,549	-17.3	-31.5	29	10.2
400	31	7,421	-23.7	-36.4	29	10.2
350	31	8,385	-31.0	-43.2	29	10.6
300	31	9,457	-39.3	-48.5	29	10.8
250	31	10,684	-47.3		30	11.8
200	31	12,142	-52.2		30	14.2
175	31	13,004	-53.3		30	11.8
150	31	13,993	-55.0		30	10.7
125	31	15,154	-56.2		31	8.7
100	31	16,572	-56.0		31	5.4
80	31	17,993	-55.3		34	2.3
70	31	18,847	-54.7		03	2.3
60	31	19,835	-54.1		05	3.2
50	29	21,012	-52.6		07	4.7
40	28	22,455	-50.8		08	6.7
30	28	24,340	-48.5		08	9.0
25	28	25,544	-46.9		08	10.3
20	28	27,031	-44.8		09	12.4
15	28	28,966	-42.4		09	14.0
10	22	31,734	-38.3		08	17.9

* SHREVEPORT, LA
1008 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	7	79	23.0	21.6		
1000	7	148	22.9	20.9		
950	7	598	23.3	18.9		
900	7	1,070	20.7	15.9		
850	7	1,562	17.5	11.2		
800	7	2,078	14.9	5.5		
750	7	2,622	11.7	2.8		
700	7	3,196	8.4	-2.3		
650	7	3,804	4.2	-7.3		
600	7	4,450	.3	-14.5		
550	7	5,142	-3.6	-17.4		
500	7	5,891	-7.6	-22.8		
450	7	6,703	-12.9	-28.9		
400	7	7,590	-19.2	-31.7		
350	7	8,571	-26.6	-37.3		
300	7	9,663	-34.8	-46.9		
250	7	10,910	-44.5			
200	7	12,368	-55.7			
175	7	13,207	-61.4			
150	7	14,151	-66.4			
125	7	15,248	-68.0			
100	7	16,590	-66.9			
80	7	17,947	-63.7			
70	7	18,770	-62.1			
60	7	19,727	-59.9			
50	7	20,872	-57.7			
40	7	22,289	-55.5			
30	7	24,137	-52.1			
25	7	25,321	-50.5			
20	7	26,787	-46.9			
15	6	28,707	-43.0			
10						

SPOKANE, WA
930 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	720	16.8	10.6	17	2.1
1000						
950						
900	31	1,005	19.8	6.5	19	2.7
850	31	1,496	18.1	2.6	22	2.9
800	31	2,012	14.5	.7	22	2.5
750	31	2,554	10.6	-2.4	23	3.0
700	31	3,124	6.4	-6.0	23	4.4
650	31	3,728	2.6	-10.1	24	6.3
600	31	4,371	-1.6	-13.3	23	8.0
550	31	5,058	-6.1	-18.7	23	8.7
500	31	5,797	-11.1	-23.9	23	10.0
450	31	6,598	-16.6	-29.4	23	10.8
400	31	7,472	-22.9	-36.2	23	12.6
350	31	8,440	-29.9	-42.8	23	14.8
300	31	9,518	-38.0	-48.5	23	17.4
250	31	10,750	-46.5		23	20.4
200	31	12,210	-52.4		23	20.6
175	31	13,069	-54.5		23	18.7
150	31	14,050	-57.0		24	14.9
125	31	15,200	-58.6		24	10.1
100	31	16,602	-58.5		22	5.4
80	31	18,010	-56.8		18	2.0
70	31	18,857	-56.2		14	2.2
60	31	19,840	-55.0		10	3.6
50	30	21,009	-53.0		09	5.4
40	30	22,454	-51.2		09	7.0
30	30	24,333	-49.0		09	9.3
25	28	25,535	-46.9		09	10.9
20	28	27,022	-44.8		09	11.4
15	25	28,960	-41.7		09	13.8
10	16	31,742	-37.5		09	16.2

TAMPA, FL
1016 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	8	24.0	22.5	13	.8
1000	31	147	24.7	21.6	15	1.5
950	31	597	22.2	18.7	18	2.4
900	31	1,066	19.4	14.2	20	2.4
850	31	1,556	16.4	10.1	21	2.3
800	31	2,070	13.6	6.8	21	2.3
750	31	2,612	10.5	3.4	22	2.1
700	31	3,184	7.1	.0	23	2.4
650	31	3,791	3.9	-4.2	23	2.5
600	31	4,438	.4	-8.9	23	2.6
550	31	5,131	-3.5	-13.8	23	2.3
500	31	5,879	-7.8	-17.0	24	1.7
450	31	6,691	-12.7	-23.6	28	1.1
400	31	7,580	-18.7	-29.1	34	1.0
350	31	8,564	-25.6	-36.3	01	1.8
300	31	9,662	-33.8	-44.4	03	2.5
250	31	10,913	-44.1		02	3.7
200	30	12,372	-55.9		01	6.4
175	30	13,209	-62.1		02	7.7
150	30	14,149	-67.4		04	7.7
125	30	15,240	-69.5		06	5.4
100	30	16,572	-68.4		08	5.4
80	30	17,917	-66.5		08	8.4
70	30	18,729	-64.6		08	12.0
60	30	19,679	-61.4		08	15.4
50	28	20,818	-58.5		09	18.2
40	27	22,230	-56.2		09	19.9
30	25	24,072	-52.9		09	19.2
25	24	25,252	-50.7		09	20.7
20	24	26,715	-48.0		08	21.3
15	20	28,627	-45.4		08	23.4
10						

TOPEKA, KS
984 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	268	19.2	16.6	18	.7
1000						
950	31	577	23.5	14.1	22	3.1
900	31	1,048	21.5	11.5	24	4.2
850	31	1,541	18.0	9.0	25	4.0
800	31	2,058	14.7	5.0	27	2.9
750	31	2,601	11.4	.4	29	2.8
700	31	3,173	7.7	-4.6	30	3.2
650	31	3,780	4.0	-9.0	31	3.8
600	31	4,427	.4	-14.6	31	4.2
550	31	5,119	-3.7	-20.2	32	4.3
500	31	5,866	-8.1	-25.8	31	5.4
450	31	6,676	-13.3	-30.0	32	6.2
400	31	7,562	-19.0	-34.7	33	6.5
350	31	8,542	-27.1	-40.4	33	7.7
300	30	9,630	-35.6	-45.5	34	8.5
250	30	10,875	-44.6		33	10.6
200	30	12,338	-54.0		32	10.6
175	30	13,187	-58.3		32	10.5
150	29	14,146	-62.6		33	9.7
125	29	15,265	-64.5		34	6.6
100	29	16,627	-63.9		01	4.7
80	29	18,001	-61.8		05	5.8
70	29	18,832	-59.8		07	6.8
60	28	19,799	-58.2		08	8.3
50	27	20,956	-55.1		08	9.5
40	27	22,386	-53.4		09	11.4
30	25	24,250	-50.3		09	14.3
25	24	25,441	-48.3		09	15.8
20	22	26,923	-45.5		09	17.5
15	15	28,851	-42.7		09	19.4
10	7	31,628	-38.8			

TRUK, CAROLINE IS.
+ 1011 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	2	28.0	23.9	09	1.3
1000	31	96	26.7	23.0	09	1.7
950	31	549	23.3	20.1	10	3.5
900	31	1,020	20.6	16.4	11	4.3
850	31	1,513	17.7	13.2	11	4.4
800	31	2,030	15.2	9.9	11	4.5
750	31	2,576	12.3	6.9	10	5.1
700	31	3,152	9.1	3.0	10	5.8
650	31	3,763	5.9	-1.4	10	6.4
600	31	4,415	2.0	-4.4	10	6.2
550	31	5,113	-1.6	-8.6	10	6.1
500	31	5,867	-5.8	-15.3	09	5.7
450	31	6,685	-10.6	-20.5	09	5.2
400	31	7,582	-16.2	-27.2	08	5.0
350	31	8,577	-23.0	-34.2	07	4.6
300	31	9,685	-31.5	-43.3	07	4.2
250	31	10,948	-41.8		06	4.0
200	31	12,419	-54.4		04	3.8
175	31	13,261	-61.3		04	3.7
150	31	14,200	-69.1		03	4.2
125	31	15,272	-75.4		02	3.1
100	31	16,560	-74.7		08	8.1
80	30	17,867	-71.2		09	13.9
70	30	18,665	-67.4		09	15.0
60	30	19,602	-64.0		09	14.4
50	30	20,728	-60.5		10	9.2
40	29	22,128	-57.5		09	4.8
30	29	23,963	-53.6		09	3.2
25	28	25,142	-51.6		11	2.7
20	27	26,600	-49.1		10	3.3
15	24	28,492	-47.3		10	7.9
10	19	31,210	-43.3		10	11.8
7						

* TUCSON, AZ
923 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	789	24.2	16.7	16	1.8
1000						
950						
900	31	1,012	25.0	14.1	16	1.5
850	31	1,513	22.5	11.2	09	.5
800	31	2,038	19.1	8.9	02	1.0
750	31	2,590	15.2	6.6	03	1.6
700	31	3,170	11.1	3.6	07	2.2
650	31	3,785	6.7	.0	09	3.4
600	31	4,438	2.1	-3.7	08	3.9
550	31	5,135	-2.5	-8.3	08	4.0
500	31	5,886	-7.0	-14.3	08	3.5
450	31	6,701	-11.4	-21.3	07	2.1
400	31	7,595	-17.0	-30.7	05	1.1
350	30	8,587	-24.1	-37.4	01	1.1
300	30	9,689	-32.6	-45.6	27	.8
250	29	10,948	-42.6		24	2.4
200	29	12,415	-54.6		23	3.9
175	29	13,258	-60.9		24	2.9
150	29	14,202	-67.0		24	1.3
125	29	15,289	-71.3		19	1.9
100	29	16,611	-70.0		10	6.2
80	29	17,948	-66.8		09	9.5
70	27	18,761	-64.1		09	11.6
60	26	19,711	-61.4		09	13.1
50	26	20,851	-58.6		09	14.6
40	26	22,261	-56.1		09	17.0
30	25	24,105	-52.9		09	18.1
25	22	25,283	-51.1		09	19.8
20	21	26,744	-48.2		09	21.2
15	19	28,650	-45.2		09	23.2
10	5	31,389	-40.4			
7						

* VANDENBERG AFB, CA
1003 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	100	11.6	10.8	33	1.3
1000	28	126	11.1	10.6	34	1.5
950	31	554	16.2	6.8	36	3.6
900	31	1,019	20.9	.7	02	2.7
850	31	1,511	19.5	-1.8	04	1.6
800	31	2,030	16.8	-4.2	29	.8
750	31	2,577	14.4	-8.0	25	2.1
700	31	3,156	11.1	-10.9	22	3.3
650	31	3,770	7.2	-13.8	22	4.3
600	31	4,422	2.9	-17.2	22	5.1
550	31	5,120	-2.0	-21.1	22	5.8
500	31	5,870	-7.0	-25.1	21	6.0
450	31	6,684	-12.8	-29.5	22	6.6
400	31	7,571	-19.2	-35.7	22	7.7
350	31	8,553	-26.4	-42.2	23	9.4
300	31	9,645	-34.9	-49.6	23	10.7
250	31	10,893	-44.2		23	12.4
200	31	12,355	-54.5		22	13.3
175	31	13,200	-59.5		22	13.8
150	31	14,153	-64.5		22	11.2
125	31	15,257	-67.7		21	6.1
100	31	16,601	-66.8		13	3.6
80	31	17,957	-64.6		10	8.2
70	31	18,777	-62.1		09	9.3
60	30	19,735	-59.9		09	10.1
50	30	20,879	-57.9		09	12.0
40	30	22,294	-55.5		09	14.8
30	28	24,139	-52.7		09	17.5
25	28	25,322	-50.5		09	18.4
20	27	26,788	-47.7		09	19.3
15	27	28,697	-45.3		09	20.5
10	25	31,423	-40.9		09	23.4
7	12	33,867	-36.9			

VICTORIA, TX
1011 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	33	23.5	22.7	13	.5
1000	31	127	24.8	23.6	18	2.0
950	31	578	23.3	19.6	19	5.9
900	31	1,050	21.2	13.3	18	5.4
850	31	1,543	18.2	9.4	18	4.3
800	31	2,061	15.0	6.4	17	3.4
750	31	2,604	11.6	2.6	16	2.7
700	31	3,178	7.9	-.8	16	2.2
650	31	3,786	4.4	-5.1	14	1.9
600	31	4,434	.8	-9.5	12	1.8
550	31	5,128	-3.0	-14.3	11	2.3
500	31	5,878	-7.2	-19.7	10	2.0
450	30	6,693	-12.1	-24.7	09	2.0
400	30	7,584	-18.0	-30.1	08	2.5
350	30	8,572	-24.8	-38.7	06	2.7
300	29	9,671	-33.1	-46.5	05	2.2
250	29	10,926	-43.5		04	1.9
200	29	12,387	-55.6		04	1.8
175	29	13,226	-61.8		05	3.1
150	29	14,166	-67.9		05	4.4
125	29	15,252	-71.0		06	6.7
100	28	16,574	-69.5		08	8.1
80	28	17,914	-66.4		08	9.7
70	28	18,729	-63.9		08	11.0
60	28	19,679	-61.8		09	12.8
50	27	20,816	-59.4		09	16.2
40	27	22,223	-56.6		09	18.6
30	27	24,063	-52.7		09	20.0
25	25	25,249	-50.2		09	20.8
20	23	26,718	-47.5		09	21.0
15	20	28,625	-45.7		09	24.1
10	14	31,359	-39.7			
7						

* WAKE IS., PACIFIC AREA
1015 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature C	Dew Point C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	5	27.0	23.3	09	4.9
1000	31	135	26.1	22.3	09	5.5
950	31	586	22.3	19.7	10	6.6
900	31	1,055	19.1	16.1	10	6.8
850	31	1,545	16.1	12.0	10	6.6
800	31	2,060	13.5	9.6	09	6.3
750	31	2,602	10.9	5.5	09	6.8
700	31	3,175	7.8	.2	09	6.4
650	31	3,783	4.4	-5.8	09	5.8
600	31	4,431	1.2	-12.3	08	4.9
550	31	5,120	-3.0	-15.1	09	5.1
500	31	5,875	-7.5	-21.3	08	4.7
450	31	6,687	-12.8	-25.6	08	4.3
400	31	7,576	-18.7	-31.6	08	4.2
350	30	8,560	-26.0	-39.1	08	4.5
300	30	9,653	-34.7	-46.8	08	4.5
250	30	10,900	-45.0		08	4.6
200	30	12,353	-56.8		07	4.8
175	30	13,187	-63.1		06	5.3
150	30	14,121	-68.9		07	7.2
125	30	15,205	-71.6		08	7.5
100	29	16,520	-71.7		08	8.7
80	29	17,840	-69.8		09	11.7
70	29	18,640	-67.5		08	13.6
60	28	19,573	-65.0		09	15.0
50	27	20,694	-62.4		09	18.0
40	27	22,081	-59.8		09	19.6
30	26	23,896	-56.4		09	19.9
25	24	25,064	-53.3		09	20.9
20	23	26,514	-50.3		09	21.9
15	20	28,401	-47.7		09	24.1
10	15	31,099	-44.7		09	27.1
7	5	33,493	-41.5			

RAWINSONDE DATA

Average monthly values

WALLOPS ISLAND, VA NASA — 1016 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	[illegible]	22.3	20.4	22	.8
1000	31	144	22.4	18.2	26	1.8
950	31	591	21.0	14.7	25	3.0
900	31	1,058	18.2	12.0	25	2.8
850	31	1,546	15.5	7.1	25	3.7
800	31	2,058	12.7	4.3	25	4.5
750	31	2,598	9.8	.2	26	5.1
700	31	3,158	6.5	-3.7	25	5.5
650	31	3,773	3.2	-7.5	25	6.3
600	31	4,418	-.5	-12.3	25	7.2
550	31	5,109	-4.5	-17.3	25	7.7
500	31	5,853	-9.1	-22.0	24	7.7
450	31	6,661	-14.0	-29.2	24	7.3
400	31	7,545	-20.2	-34.6	24	7.6
350	31	8,524	-27.2	-40.9	24	7.3
300	31	9,613	-35.7	-47.7	25	7.8
250	31	10,854	-45.8		25	9.5
200	31	12,305	-55.9		27	9.4
175	31	13,148	-59.5		27	9.5
150	31	[illegible]	-62.4		26	4.9
125	31	15,228	-63.3		26	4.9
100	31	16,600	-62.9		29	.8
80	31	17,981	[illegible]		08	3.8
70	31	18,813	-59.9		09	5.7
60	31	19,781	-58.1		09	8.2
50	30	20,935	-56.1		09	10.3
40	30	22,362	-53.6		09	12.4
30	29	24,227	-50.6		09	15.1
25	29	25,421	-48.6		09	16.1
20	28	26,845	-46.1		09	17.5
15	27	28,821	-43.3		09	19.4
10	9	31,586	-40.0			

WASHINGTON DULLES INT. AP — 1007 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	85	19.0	17.8	22	.4
1000	28	148	19.6	16.8	24	.6
950	31	586	20.3	13.7	29	1.9
900	31	1,052	17.9	10.9	30	2.5
850	31	1,539	14.8	7.7	28	2.4
800	31	2,050	11.7	4.3	27	3.1
750	31	2,588	9.1	.1	27	4.2
700	31	3,157	5.6	-3.9	27	5.2
650	31	3,760	2.6	-8.1	26	6.4
600	31	4,403	-1.1	-12.5	26	7.2
550	31	5,093	-4.8	-17.4	26	7.4
500	31	5,836	-9.3	-23.1	25	7.8
450	31	6,644	-14.4	[illegible]	24	[illegible]
400	31	7,526	-20.5	-32.6	24	8.2
350	31	8,503	-27.7	-38.5	24	8.6
300	31	9,590	-36.2	-47.5	24	9.3
250	31	10,828	-46.3		24	[illegible]
200	30	12,284	-55.5		26	[illegible]
175	29	13,126	-59.3		26	[illegible]
150	29	14,087	-61.1		26	[illegible]
125	29	15,215	-62.5		25	6.2
100	29	16,592	-62.4		09	[illegible]
80	29	17,977	-60.4		09	2.8
70	29	[illegible]	[illegible]		09	4.3
60	28	19,783	-57.5		09	5.6
50	27	20,938	-55.2		09	7.3
40	27	22,369	[illegible]		09	[illegible]
30	26	24,235	-50.3		09	13.2
25	26	25,431	-48.2		09	14.2
20	25	26,909	-45.7		09	15.6
15	21	28,838	-43.2		09	18.5
10	9	31,572	-38.5			

WAYCROSS, GA — 1011 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	44	22.5	21.5	18	.4
1000	31	139	22.7	21.1	21	1.0
950	31	587	21.8	18.6	23	2.8
900	31	1,056	19.2	15.7	25	2.9
850	31	1,546	16.1	12.7	24	2.6
800	31	2,060	13.4	8.7	24	3.2
750	31	2,602	11.6	4.6	24	2.9
700	31	3,174	7.3	.9	23	2.8
650	31	3,781	3.9	-2.5	23	3.3
600	31	4,429	.5	-6.9	23	3.5
550	31	5,123	-3.1	-12.2	24	2.8
500	31	5,872	-7.3	-17.7	24	2.5
450	31	6,686	-12.0	-23.7	26	2.3
400	31	7,578	-17.9	-29.6	29	2.8
350	31	8,565	-25.1	-37.1	28	3.5
300	31	9,663	-33.7	-44.7	29	4.1
250	30	10,914	-43.7		30	4.7
200	30	12,375	-55.5		31	6.7
175	30	13,214	-61.6		32	8.1
150	30	14,156	-66.6		35	6.1
125	30	15,254	-68.3		03	2.6
100	30	16,595	-67.0		08	3.2
80	29	17,951	-64.3		08	6.9
70	29	18,772	-62.6		08	9.5
60	29	19,727	-60.6		08	13.0
50	29	20,870	-57.5		09	16.4
40	29	22,290	-54.7		09	18.4
30	[illegible]	24,146	-51.2		09	17.9
25	[illegible]	25,336	-49.5		09	17.8
20	[illegible]	[illegible]	-47.1		08	20.9
15	19	28,727	[illegible]		09	25.3
10	6	[illegible]	-38.5			

WINNEMUCCA, NV — 869 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	1,312	15.6	4.6	06	.9
1000						
950						
900						
850	31	1,489	20.6	4.4	05	1.0
800	31	2,011	18.6	2.2	28	.6
750	31	2,562	15.1	-.9	19	1.5
700	31	3,141	10.9	-3.7	20	4.3
650	31	3,754	6.2	-6.2	20	5.9
600	31	4,404	1.0	-8.9	20	[illegible]
550	31	5,097	-4.4	-13.7	21	9.6
500	31	5,841	-9.6	-21.4	22	9.4
450	31	6,646	-14.9	-28.5	22	9.9
400	31	7,528	[illegible]	-35.1	22	10.6
350	31	8,503	-28.2	-42.1	22	12.8
300	31	9,588	-36.4	-48.1	22	16.4
250	31	10,829	-45.2		22	17.3
200	31	12,291	-53.5		22	18.4
175	31	13,143	-57.3		22	16.4
150	31	14,108	-61.9		23	13.6
125	31	15,229	-64.0		22	8.1
100	31	16,595	-63.9		19	4.4
80	30	17,972	-61.5		12	[illegible]
70	30	18,804	[illegible]		11	[illegible]
60	29	19,770	-58.5		10	6.5
50	29	20,925	-56.2		09	7.6
40	26	22,353	-53.8		09	9.5
30	26	24,213	[illegible]		09	[illegible]
25	25	25,403	-49.2		09	12.6
20	25	26,876	-46.6		09	14.7
15	23	28,797	-43.7		09	15.6
10	13	31,536	[illegible]		09	17.8

WINSLOW, AZ — 853 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	1,487	[illegible]	11.6	16	1.5
1000						
950						
900						
850	31	1,517	[illegible]	9.7	[illegible]	1.5
800	31	2,041	19.9	[illegible]	25	[illegible]
750	31	[illegible]	16.6	3.6	[illegible]	[illegible]
700	31	3,178	12.3	.6	[illegible]	.7
650	31	3,794	[illegible]	-1.7	[illegible]	.6
600	31	4,448	[illegible]	-4.7	[illegible]	.9
550	31	5,145	[illegible]	-9.0	14	[illegible]
500	31	5,894	-7.6	-15.0	[illegible]	[illegible]
450	31	6,707	-12.6	-23.2	[illegible]	.6
400	31	7,597	-18.2	-31.4	[illegible]	[illegible]
350	31	8,584	[illegible]	-39.1	[illegible]	2.7
300	31	9,683	[illegible]	-46.5	[illegible]	[illegible]
250	31	[illegible]	[illegible]		[illegible]	[illegible]
200	31	12,408	[illegible]		[illegible]	7.0
175	31	13,253	[illegible]		[illegible]	[illegible]
150	31	[illegible]	-65.6		[illegible]	[illegible]
125	29	15,302	[illegible]		[illegible]	[illegible]
100	27	16,634	-69.1		[illegible]	[illegible]
80	[illegible]	17,980	[illegible]		[illegible]	[illegible]
70	[illegible]	18,798	[illegible]		[illegible]	[illegible]
60	27	19,754	-60.0		[illegible]	[illegible]
50	27	20,900	[illegible]		[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
30	[illegible]	24,168	[illegible]		[illegible]	[illegible]
25	[illegible]	25,355	[illegible]		[illegible]	[illegible]
20	21	26,817	-47.6		[illegible]	[illegible]
15	[illegible]	[illegible]	-44.6		[illegible]	[illegible]
10	11	31,474	[illegible]			

YAKUTAT, AK — 1014 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	12	9.9	8.6	11	[illegible]
1000	31	128	11.2	8.3	[illegible]	1.8
950	31	556	10.0	5.7	14	[illegible]
900	31	1,004	7.6	3.2	14	[illegible]
850	31	1,473	4.9	.8	13	2.9
800	31	1,966	2.6	[illegible]	13	2.8
750	31	2,486	[illegible]	-5.9	14	2.3
700	31	3,036	-2.7	-9.7	13	2.1
650	31	3,621	[illegible]	-13.9	13	2.5
600	31	4,243	-9.7	-17.7	14	2.5
550	31	4,910	-13.8	-24.1	15	[illegible]
500	31	5,628	-18.4	-30.1	14	[illegible]
450	31	6,406	-23.9	-35.0	12	2.8
400	31	7,255	[illegible]	-40.4	12	[illegible]
350	31	8,193	-37.2	-45.0	12	4.1
300	31	9,239	-44.4		11	4.1
250	31	10,446	-49.6		11	2.5
200	31	11,910	-47.5		19	1.8
175	31	12,794	-47.3		19	2.3
150	31	13,813	-47.8		20	2.2
125	31	15,015	-48.3		21	2.4
100	31	16,482	-49.0		20	[illegible]
80	31	17,946	-49.1		19	[illegible]
70	30	18,818	-48.8		15	1.5
60	30	19,832	-48.7		12	2.2
50	30	21,032	-48.2		11	2.5
40	30	22,505	-47.5		[illegible]	[illegible]
30	29	24,411	-45.8		09	4.7
25	29	25,629	-44.6		09	6.4
20	27	27,130	-42.8		09	6.9
15	[illegible]	29,085	[illegible]		09	9.4
10	19	31,875	-35.6		09	10.4
7	10	34,382	-31.4			

YAP, CAROLINE IS. — 1008 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	14	[illegible]	[illegible]	13	1.5
1000	31	63	26.8	22.8	13	1.7
950	31	536	23.4	[illegible]	12	2.3
900	31	1,007	20.4	[illegible]	12	2.5
850	31	1,500	17.7	13.1	12	3.0
800	31	2,017	15.1	[illegible]	12	3.2
750	31	2,563	12.4	6.5	11	3.7
700	31	3,139	9.4	2.8	[illegible]	3.8
650	31	3,751	[illegible]	-1.1	11	4.2
600	31	4,403	2.4	-5.4	[illegible]	5.3
550	31	5,102	-1.6	-9.9	10	5.1
500	31	5,855	-5.9	-15.3	10	4.8
450	31	6,674	-12.5	-19.9	10	4.5
400	31	7,571	[illegible]	-27.1	09	3.7
350	31	8,506	[illegible]	-35.0	10	2.8
300	31	9,674	-31.6	-43.4	10	3.2
250	31	10,936	[illegible]		08	2.9
200	31	12,406	-54.7		06	4.6
175	30	13,247	-61.7		05	6.2
150	30	14,184	-69.3		05	8.4
125	30	15,255	-75.8		07	9.1
100	30	16,539	-75.4		08	[illegible]
80	30	17,845	-71.1		09	15.8
70	30	18,642	[illegible]		09	17.6
60	30	19,577	-64.1		[illegible]	16.7
50	28	20,703	[illegible]		09	13.7
40	28	22,100	-57.4		09	[illegible]
30	28	23,936	-53.4		09	7.7
25	26	25,116	-51.4		09	7.8
20	26	[illegible]	[illegible]		09	[illegible]
15	23	28,474	-45.9		10	12.1
10	9	31,197	-41.4			

YUCCA FLAT, NV — [illegible] MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	[illegible]	[illegible]	-1.1	30	.5
1000						
950						
900						
850	31	1,496	23.8	3.6	22	[illegible]
800	31	2,022	[illegible]	1.3	20	6.2
750	31	2,576	16.8	-1.0	20	6.6
700	31	3,159	12.4	-3.8	18	5.6
650	31	3,776	7.7	-7.0	19	6.0
600	31	4,479	2.8	-11.0	19	6.0
550	31	[illegible]	-2.4	-15.6	19	6.6
500	31	5,876	-7.4	-21.0	20	6.3
450	31	6,689	-12.9	-26.3	22	7.1
400	31	7,576	-19.2	-33.5	22	7.8
350	31	8,559	[illegible]	-40.4	22	9.0
300	31	9,653	-34.5	-47.4	23	10.3
250	31	10,903	-43.8		22	11.6
200	31	12,369	-53.8		23	12.4
175	31	13,216	-59.3		22	11.9
150	31	14,171	[illegible]		22	10.3
125	30	15,276	-67.5		21	5.2
100	30	16,621	-66.7		14	4.0
80	[illegible]	17,980	-63.8		11	6.0
70	[illegible]	18,802	-62.0		10	7.5
60	29	19,761	-59.4		10	8.7
50	28	20,909	-57.5		09	9.5
40	27	22,327	-55.2		09	12.2
30	25	[illegible]	-52.2		09	14.8
25	24	25,367	-50.4		09	16.4
20	23	26,831	-48.2		09	17.5
15	20	28,733	-45.6		09	18.7
10	5	31,457	-42.3			

SOLAR RADIATION INTENSITIES

Tabulated in langleys per minute on a surface normal to the direction of the sun.

JULY 1975

Sun's zenith distance

ALBUQUERQUE, NEW MEXICO

Date	A M 78.7°	A M 75.7°	A M 70.7°	A M 60.0°	*	P M 60.0°	P M 70.7°	P M 75.7°	P M 78.7°
Air mass	4.19	3.35	2.51	1.67	*	1.67	2.51	3.35	4.19
1-----	.63	.85	.89	1.06	1.25	.79	.54	.47	.38
2-----	(.43)	(.54)	(.72)	(.88)	----	----	----	----	----
3-----	.42	.51	.53	.79	1.13	.79	.49	----	----
4-----	.45	.55	.64	.79	1.21	1.09	1.04	.99	----
5-----	.53	.63	.76	.95	1.20	----	----	----	----
7-----	.66	.74	.91	1.04	1.22	----	----	----	----
8-----	.62	.75	.89	1.02	----	----	----	----	----
9-----	----	----	.81	.98	1.26	----	----	----	----
12----	----	----	----	----	1.27	----	----	----	----
13----	.66	.77	.93	1.04	1.30	----	.71	.63	.53
14----	.71	.82	.95	1.10	1.32	----	----	----	----
15----	.68	.77	.89	1.03	----	----	----	----	----
18----	.67	.77	.90	1.06	1.29	1.05	.84	----	.59
19----	.64	.75	.89	1.06	----	----	.80	.68	.53
20----	.67	.76	.89	1.09	1.30	----	----	----	----
21----	----	.85	.96	1.12	1.31	----	----	----	----
22----	.65	----	.89	1.10	1.32	1.10	.94	.81	.72
23----	----	.81	.96	1.10	1.37	1.13	.92	.80	----
24----	----	----	----	----	1.32	----	.95	.83	.74
25----	----	.59	.81	----	----	----	----	----	----
26----	.69	.79	.91	1.08	1.29	----	----	----	----
27----	----	----	----	----	1.32	----	----	----	----
28----	----	----	----	1.08	1.33	----	----	----	----
29----	.76	.87	.98	1.14	----	----	----	----	----
30----	.65	.76	.87	1.07	1.26	1.09	.89	.71	.61
31----	.69	.80	.92	1.08	1.34	1.14	1.00	.89	.76
Averages	.63	.75	.87	1.04	1.28	1.02	.83	.76	.61

MADISON, WISCONSIN

Date	A M 78.7°	A M 75.7°	A M 70.7°	A M 60.0°	*	P M 60.0°	P M 70.7°	P M 75.7°	P M 78.7°
Air mass	4.69	3.75	2.81	1.88	*	1.88	2.81	3.75	4.69
4-----	M .42	M .56	----	M .95	----	----	----	----	----
7-----	I .22	I .30	I .45	I .65	----	----	----	----	----
14----	----	----	S .75	S .92	----	----	----	----	----
16----	----	----	----	----	M 1.10	----	----	----	----
17----	S .43	M .48	M .62	M .80	M 1.03	----	----	----	----
20----	----	----	----	----	S 1.24	S 1.05	S .90	S .79	S .69
21----	----	S .83	S .96	S 1.11	----	----	----	----	----
24----	----	S .58	S .73	S .98	S 1.20	----	S .82	S .69	S .61
25----	S .65	S .74	S .88	S 1.05	S 1.21	----	S .70	S .51	S .41
26----	S .57	S .77	S .80	S .97	----	----	M .61	M .48	M .37
27----	S .55	S .64	S .81	S .98	S 1.26	S 1.05	S .87	S .74	S .63
28----	S .62	S .72	S .86	S 1.01	S 1.23	S .95	S .78	S .67	S .58
29----	S .63	S .74	S .87	S 1.03	S 1.25	S .94	S .75	S .58	S .50
30----	I .28	I .36	I .48	M .62	----	----	----	----	----
31----	----	----	M .33	M .56	----	----	----	----	----
Averages	.49	.62	.71	.89	1.19	1.00	.78	.64	.54

MAUNA LOA OBSERVATORY, HAWAII

Date	A M 78.7°	A M 75.7°	A M 70.7°	A M 60.0°	*	P M 60.0°	P M 70.7°	P M 75.7°	P M 78.7°
Air mass	3.36	2.69	2.01	1.34	*	1.34	2.01	2.69	3.36
1-----	1.14	1.26	1.30	1.43	1.56	----	----	----	----
2-----	1.16	1.24	1.34	1.46	1.59	----	----	----	----
3-----	1.15	1.24	1.32	1.42	----	----	----	----	----
4-----	----	1.24	1.33	1.44	1.56	1.42	1.30	1.21	1.13
5-----	1.19	1.28	1.37	1.47	----	----	1.29	1.19	1.12
6-----	1.20	1.28	1.38	----	----	----	----	----	----
7-----	----	----	----	----	1.72	1.45	1.33	1.25	1.16
8-----	1.22	1.25	1.38	1.49	1.61	1.47	1.37	1.27	1.20
9-----	1.20	1.28	1.35	1.46	----	----	----	----	----
10----	1.20	1.28	1.37	1.47	1.60	1.41	1.30	1.21	1.13
11----	1.20	1.28	1.37	1.49	----	----	----	----	1.14
12----	1.15	1.24	1.32	1.44	----	1.38	1.21	1.08	1.01
13----	1.18	1.27	1.35	1.46	1.60	1.47	1.35	1.25	1.17
14----	1.19	1.27	1.35	1.47	1.61	1.43	1.31	1.26	1.13
17----	1.17	1.25	1.34	1.45	1.59	1.44	1.31	1.22	1.13
18----	1.13	1.20	1.29	1.41	----	----	----	----	----
19----	1.16	1.22	1.31	1.44	----	----	----	----	----
20----	1.15	1.22	1.31	1.42	----	----	----	----	----
21----	1.16	1.24	1.33	1.44	----	----	----	----	----
22----	1.18	1.26	1.35	1.46	1.57	1.42	1.32	1.24	1.14
23----	1.20	1.27	1.37	1.48	1.60	1.45	1.32	1.23	1.15
24----	1.22	1.30	1.38	1.49	1.62	1.48	1.36	1.26	1.18
25----	1.21	1.29	1.38	1.48	1.63	1.47	1.36	1.27	1.18
26----	----	1.29	1.39	1.50	1.64	1.43	1.31	1.19	1.12
27----	1.16	1.24	1.33	1.43	----	----	----	----	----
28----	1.12	1.22	1.25	1.41	----	1.43	1.31	1.23	1.14
30----	----	----	----	1.43	1.57	1.39	1.26	1.16	1.07
31----	1.17	1.25	1.34	1.45	1.60	1.44	1.31	1.20	1.10
Averages	1.17	1.25	1.34	1.45	1.60	1.43	1.31	1.22	1.13

BLUE HILL OBSERVATORY, MASS

Date	A M 78.7°	A M 75.7°	A M 70.7°	A M 60.0°	*	P M 60.0°	P M 70.7°	P M 75.7°	P M 78.7°
Air mass	4.89	3.92	2.94	1.96	*	1.96	2.94	3.92	4.89
1-----	.60	.66	.76	.87	1.00	.86	.72	.64	.57
2-----	.50	.58	.68	.79	----	----	----	---	----
26----	----	----	----	----	----	.81	.71	.63	.55
27----	.58	.65	.72	.84	----	.45	.29	.23	.21
30----	.51	.57	.67	.78	.90	.64	.45	.35	.30
Averages	.55	.62	.71	.82	.95	.69	.54	.45	.41

OMAHA, NEBRASKA

Date	A M 78.7°	A M 75.7°	A M 70.7°	A M 60.0°	*	P M 60.0°	P M 70.7°	P M 75.7°	P M 78.7°
Air mass	4.78	3.82	2.87	1.91	*	1.91	2.87	3.82	4.78
2-----	HI .04	HI .09	HI .17	HI .30	HI .64	----	----	----	----
3-----	HI .13	HI .17	HI .29	HI .47	----	HI .54	HI .34	HI .23	HI [illegible]
4-----	HI .23	HI .33	HI .48	HI .68	---	----	HM .50	HM .41	HM .30
6-----	----	HS .72	----	HS1.04	HS1.20	HS .94	HS .80	HS .64	HS .42
7-----	----	----	----	----	----	HS .99	HS .79	H .66	HS .57
8-----	----	HM .51	HM .68	HM .85	----	----	----	----	----
9-----	----	----	----	1.00	----	----	----	----	----
10----	----	----	.81	1.01	----	----	----	----	----
14----	.36	.39	.53	.76	----	HM .80	----	----	----
15----	.36	.48	.63	.81	1.03	HM .72	HM .52	HM .36	HM .24
16----	.35	.47	.71	.83	1.11	.78	HM .54	HM .37	HM .21
17----	.56	.64	.76	.98	1.10	HS .81	HS .60	HS .44	HS .27
18----	.37	.45	.66	----	----	HS .88	HS .72	----	----
19----	----	----	----	----	----	HS .98	HS .84	----	----
20----	----	.78	.92	1.01	1.23	1.02	HS .85	----	----
24----	----	----	.80	----	1.29	1.05	HS .86	HS .72	HS .59
25----	HM .56	HM .64	HM .78	HS .94	HM1.00	HS .85	HS .65	HS .52	HM .41
26----	.42	.50	.61	.76	1.12	.91	HS .72	HS .58	HS .48
27----	HS .44	HS .56	HS .68	----	1.04	.83	----	----	----
28----	----	----	----	----	----	HS .81	----	HM .49	HM .38
29----	HM .37	HM .45	HS .62	HM .84	HS1.02	----	----	----	----
30----	HM .22	HM .33	----	HM .68	----	----	----	----	----
Averages	.33	.46	.58	.81	1.04	.85	.63	.49	.36

TUCSON, ARIZONA

Date	A M 78.7°	A M 75.7°	A M 70.7°	A M 60.0°	*	P M 60.0°	P M 70.7°	P M 75.7°	P M 78.7°
Air mass	4.64	3.71	2.78	1.86	*	1.86	2.78	3.71	4.64
1-----	.70	.81	.95	1.14	1.33	----	----	----	----
2-----	.62	.73	----	1.00	1.35	----	----	----	----
4-----	.37	.50	.64	.88	1.15	----	----	----	----
5-----	----	----	----	----	1.27	.97	.76	.58	----
6-----	----	----	.78	.99	1.29	----	----	----	----
7-----	----	----	.79	.97	----	----	----	----	----
8-----	----	.72	----	----	1.29	----	----	----	----
9-----	----	----	----	1.08	1.28	----	----	----	----
10----	.49	.58	.73	.99	1.23	----	----	----	----
11----	.47	----	.62	.88	1.17	----	----	----	----
13----	----	----	.85	----	----	----	----	----	----
14----	.51	.61	.75	----	1.24	----	----	----	----
15----	.61	.72	.86	1.08	1.33	.91	.78	----	----
16----	.36	.48	.62	.89	1.18	----	----	----	----
17----	----	----	----	----	----	1.01	----	----	----
18----	.58	.68	.83	1.00	1.29	----	----	----	----
19----	----	----	----	----	----	1.13	.91	.73	----
20----	----	----	----	1.11	1.41	1.14	.97	.81	.71
21----	----	.71	.87	1.13	1.40	1.08	----	----	----
22----	----	----	----	1.01	1.42	1.06	----	----	----
23----	----	----	----	----	1.29	.96	.79	.64	.53
24----	.42	----	----	.83	1.08	.98	----	.64	.57
25----	.72	.81	.94	1.11	1.31	----	----	---	----
26----	.61	.72	.82	1.02	----	----	----	----	----
28----	.65	.75	.85	1.04	----	1.08	----	----	----
29----	----	----	----	----	1.27	1.08	----	--	.69
30----	.59	.74	.88	1.06	1.33	1.08	----	---	.61
31----	.75	.86	.96	1.16	1.38	1.15	.99	----	----
Averages	.56	.69	.81	1.02	1.29	1.05	.87	.68	.62

SOLAR RADIATION TOTALS

Daily totals and monthly averages of solar radiation (direct and diffuse) received on a horizontal surface, tabulated in langleys.

JULY 1975

Station	Day of month																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Avg
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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This is the first published Solar Radiation Totals since August 1972.

Note - Langley is the unit used to denote one gram calorie per square centimeter.
* Values with an asterisk are interpolated.

NET RADIATION

Net radiation in langleys per day [illegible]

Date. . . .	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Avg.
Langleys. . .	79	181	[illegible]	151	158	[illegible]	[illegible]	282	281	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	228	120	120	216	191	66	8	7	314	[illegible]	131	[illegible]	112	[illegible]	[illegible]	8	119	[illegible]

SOLAR ULTRA-VIOLET RADIATION DATA

[illegible]

Date. . . .	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Avg.
Langleys. . .																																

NO DATA RECEIVED

TOTAL OZONE DATA

These provisional ozone data are obtained from measurements made with a Dobson ozone spectrophotometer, and are applicable approximately to local apparent noon. The data are presented in the code [illegible] defined in the August 1962 WMO circular entitled PUBLICATION OF DATA FOR METEOROLOGICAL RESEARCH, WORLD OZONE DATA.

Units: Milli-atm-cms

Station	Day of month																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean O_3

NO DATA RECEIVED

REFERENCE NOTES

OBSERVED EXTREMES OF TEMPERATURE AND PRECIPITATION -- BY STATE: Dates in the table are for the 24 hours ending at time of observation. In some cases the actual occurrence is on the calendar date preceding that shown. (See individual Climatological Data for times of observations).

+	And also on an earlier date or dates.
D	Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch of water equivalent to every 10 inches of snowfall.

CLIMATOLOGICAL DATA - METRIC UNITS: Data from airport unless otherwise specified.

Precipitation data in column headed "Greatest in 24 hours" are computed on a 24-hour basis without regard to calendar day - data may include precipitation with a measurable amount from the last day of the previous month or the first day of the following month.

Wind directions under resultant direction are in tens of degrees.

Value entered in column "Fastest Mile" is the highest observed 1-minute wind speed when the direction is in tens of degrees. These stations are not equipped with a recording anemometer from which "Fastest Mile data can be evaluated.

B	Number of days maximum 21.1°C. or above for Alaskan Stations.
Y	Peak Gust.
+	And also on an earlier date or dates.
U	Indicates Urban site.
R	Indicates Rural site.
0	Station pressures apply to elevations shown in the "Elevations" table of the annual issue of this publication.

Conversion formulae to English Units are as follows:

1 foot = 0.3048 meters
°F. = $\frac{9}{5}$ x °C + 32
1 inch = 25.4 millimeters
1 mile per hour = 0.447 meters per second

HEATING DEGREE DAYS: Data from airport unless otherwise specified.

U	Indicates Urban site.
R	Indicates Rural site.

COOLING DEGREE DAYS: Data from airport unless otherwise specified.

U	Indicates Urban site.
R	Indicates Rural site.

STORM SUMMARY:

°	Includes crop damage.
C	Crop damage.
*	No occurrence of storms or unusual weather phenomena reported.
@	Includes heavy sleet storm.
#	Freezing drizzle and freezing rain, commonly known as glaze.
0	For breakdown of "All Others," and for detailed listing of other storms, see the Environmental Data Service, NOAA, monthly publication STORM DATA.
‡	No Storm Data Report received for this State.
<>	Report Incomplete.
†	Storm damages are placed in categories varying from 1 to 9 as follows:

1	Less than $50
2	$50 to $500
3	$500 to $5,000
4	$5,000 to $50,000
5	$50,000 to $500,000
6	$500,000 to $5 Million
7	$5 Million to $50 Million
8	$50 Million to $500 Million
9	$500 Million to $5 Billion.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS:

1/	Flooding continued at the end of the month.
NA	Not available.

FLOOD STAGE DATA:

#	Highest Stage Observed
1/	Continued at end of month
___	Highest Stage of Record
E	Estimated
P	Provisional (Flood Stage)
U	Unknown

RAWINSONDE DATA (Average Monthly Values):

All observations scheduled at 1200, G.C.T. Pressures shown under station names are the average monthly station pressures for the month of record, corrected to the height of the floors of the instrument shelters used for rawinsonde purposes. Number of observations refer to those of dynamic height only. Although the number of temperature observations at any given pressure surface is usually the same as for height, it is possible for temperature to be missing for one or more pressure surfaces of some observations. Dew Point averages are limited to those observations with temperatures higher than -40°C. Observations of wind speed and direction are not made beyond the limiting angles, i.e., elevation angles less than 6° above the horizon, or any obstruction above the horizon. The temperature and wind values are based on 15 or more observations at the surface or 5 observations at a standard pressure level for temperature and 10 for wind. Dew Point data are not published for standard pressure surfaces for which less than 5 observations are available. Dew Point data are computed and expressed on the basis of vapor pressure over water. Unless otherwise indicated, they are obtained from carbon hygristors. These average values for standard pressure surfaces were obtained by rawinsondes; dynamic height (geopotential) in units of .98 dynamic meter, temperature and dew point in degrees Celsius, and resultant winds in tens of degrees and meters per second.

*	Rawinsondes at this station were equipped with hypsometers to permit more accurate evaluations of pressure, and consequently height, at pressures lower than 50 mb. These rawinsondes were carried aloft by special high altitude balloons, in an effort to consistently reach higher altitudes.
+	Observations for these stations are scheduled at 0000 G.C.T.
†	Dew Point temperatures are based on a minimum of 5 observations. Therefore, due to the lesser number of Dew Point observations at the higher levels comparison with dry-bulb temperatures should be made with care. Dew Point temperatures replaced Relative Humidity January 1967.

SOLAR RADIATION INTENSITIES: Langley is the unit used to denote one gram calorie per square centimeter. An explanation of the formula used in computing the air mass values for each station appears in the February 1957 issue, Vol. 8, No. 2, page 63, of this publication.

()	Clouds Present
*	Values corresponding to true solar noon
BD	Blowing Dust
BN	Blowing Sand
D	Dust
DI	Intense Dust
DM	Moderate Dust
DS	Slight Dust
F	Fog
GF	Ground Fog
H	Haze
HI	Intense Haze
HM	Moderate Haze
HS	Slight Haze
I	Intense Haze-indeterminable
K	Smoke
KI	Intense Smoke
KM	Moderate Smoke
KS	Slight Smoke
M	Moderate Haze-indeterminable
N	Sand
S	Slight Haze-indeterminable

NET RADIATION: The measurement is made with a CSIRO FUNK net exchange radiometer over a plot of sod. The value represents the total incoming minus the total outgoing radiation of all wave lengths.

These data are of an experimental nature and are published as received from the Palmer Exp. Station. The instrument with which they were measured has not been checked by the NOAA, National Weather Service.

SOLAR ULTRA-VIOLET RADIATION DATA: These data are from an U-V Eppley total ultra violet sensor and Speedomax H (Leeds Northrup) Recorder. This instrument has not been checked by the NOAA, National Weather Service.

TOTAL OZONE DATA: The spectrophotometer measures the total amount of ozone in the atmosphere, i.e., the amount contained in a vertical column of air extending from ground level to the top of the atmosphere in the vicinity of the station. The amount of ozone in this column (coded $\Omega\ \Omega\ \Omega$) is expressed in terms of a thickness of a layer it would occupy at standard temperature and pressure, e.g., 350 milli-atmo-cm ozone implies an ozone layer 0.350 centimeter thick. The code λs designates the type of measurement made.

DESCRIPTION OF CHARTS

CHART I. A. NORMAL DAILY AVERAGE TEMPERATURE (°F. 1941-70) FOR MONTH. B. TEMPERATURE DEPARTURE FROM 30-YEAR MEAN (°F. 1941-70) FOR MONTH. Chart I-A is reproduced from monthly normals maps prepared at the National Climatic Center. Chart I-B is a reproduction of monthly chart appearing in "Weekly Weather and Crop Bulletin," a publication of Environmental Data Service.

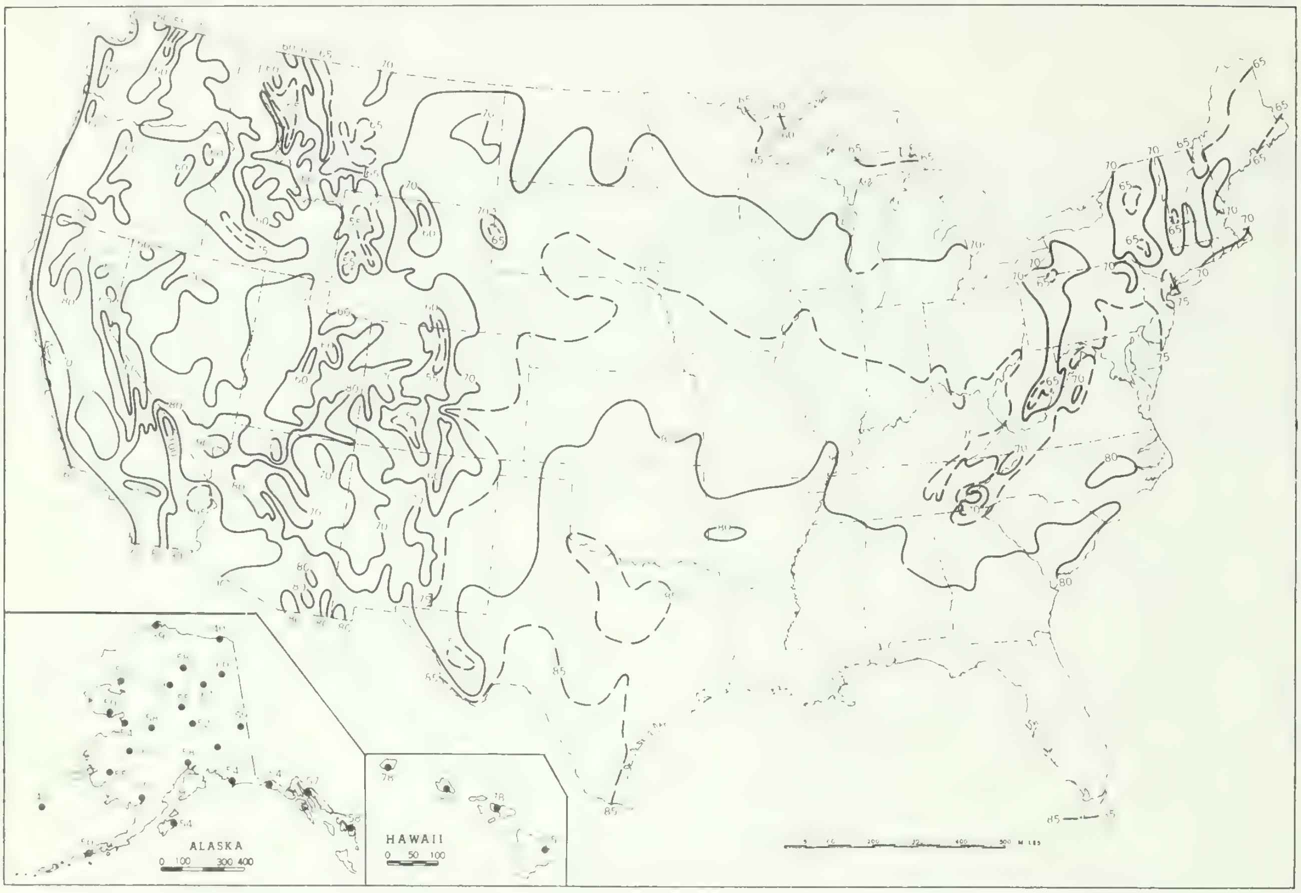
CHART II. A. TOTAL PRECIPITATION. Chart II. A. is a reproduction of monthly chart appearing in "Weekly Weather and Crop Bulletin."

CHART II. B. PERCENTAGE OF NORMAL PRECIPITATION. Chart II. B. is a reproduction of monthly chart appearing in "Weekly Weather and Crop Bulletin."

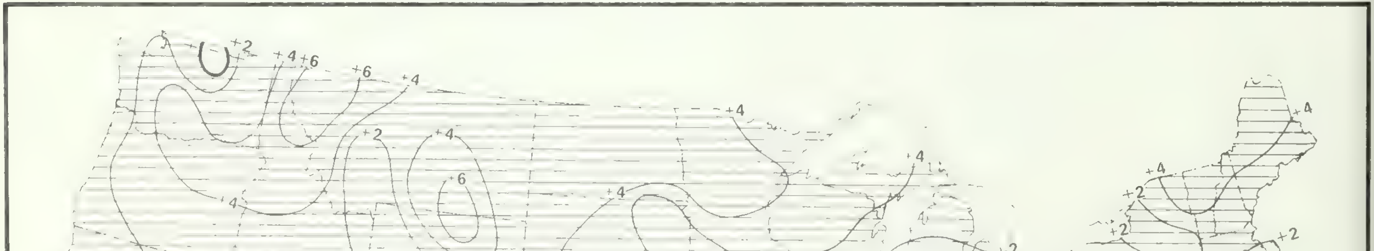
CHART III. TRACKS OF CENTERS OF ANTICYCLONES AT SEA LEVEL.

CHART IV. TRACKS OF CENTERS OF CYCLONES AT SEA LEVEL. Centers which can be identified for 24 hours or more are tracked in these charts. Semi-permanent features such as the Great Basin and Pacific Highs and Colorado and Mexico Lows are not shown. The 7:00 a.m., e.s.t., positions are shown by open circles, with the intermediate positions at 6-hour intervals shown by X's. The date is given above the circle and the central pressure to whole millibars below. A dashed track indicates a regeneration rather than actual movement to the next position. Squares indicate position of stationary center for period shown beside it.

Chart 1. A. Normal Daily Average Temperature (°F. 1941-70), July.


65
70
75
80
85
ALASKA
0 100 300 400
HAWAII
0 50 100
78

B. Temperature Departure from 30 - Year Mean (°F 1941-70), July 1975

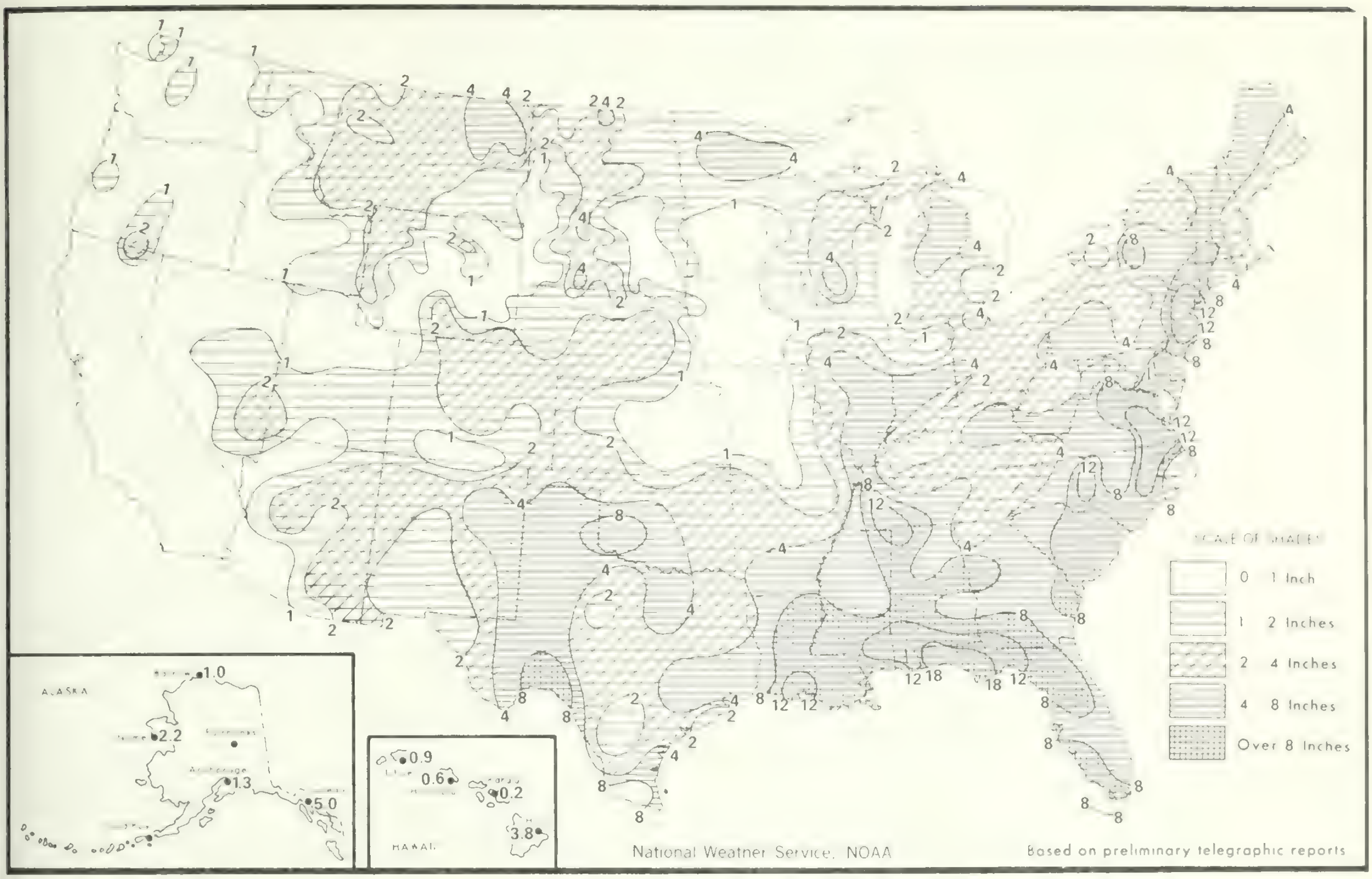

+2
+4
+6
-2
-4
-6
ALASKA
Barrow -1
+2
+1
0
HAWAII
0
2

Shaded Areas Normal or Above

National Weather Service, NOAA

Based on preliminary telegraphic reports

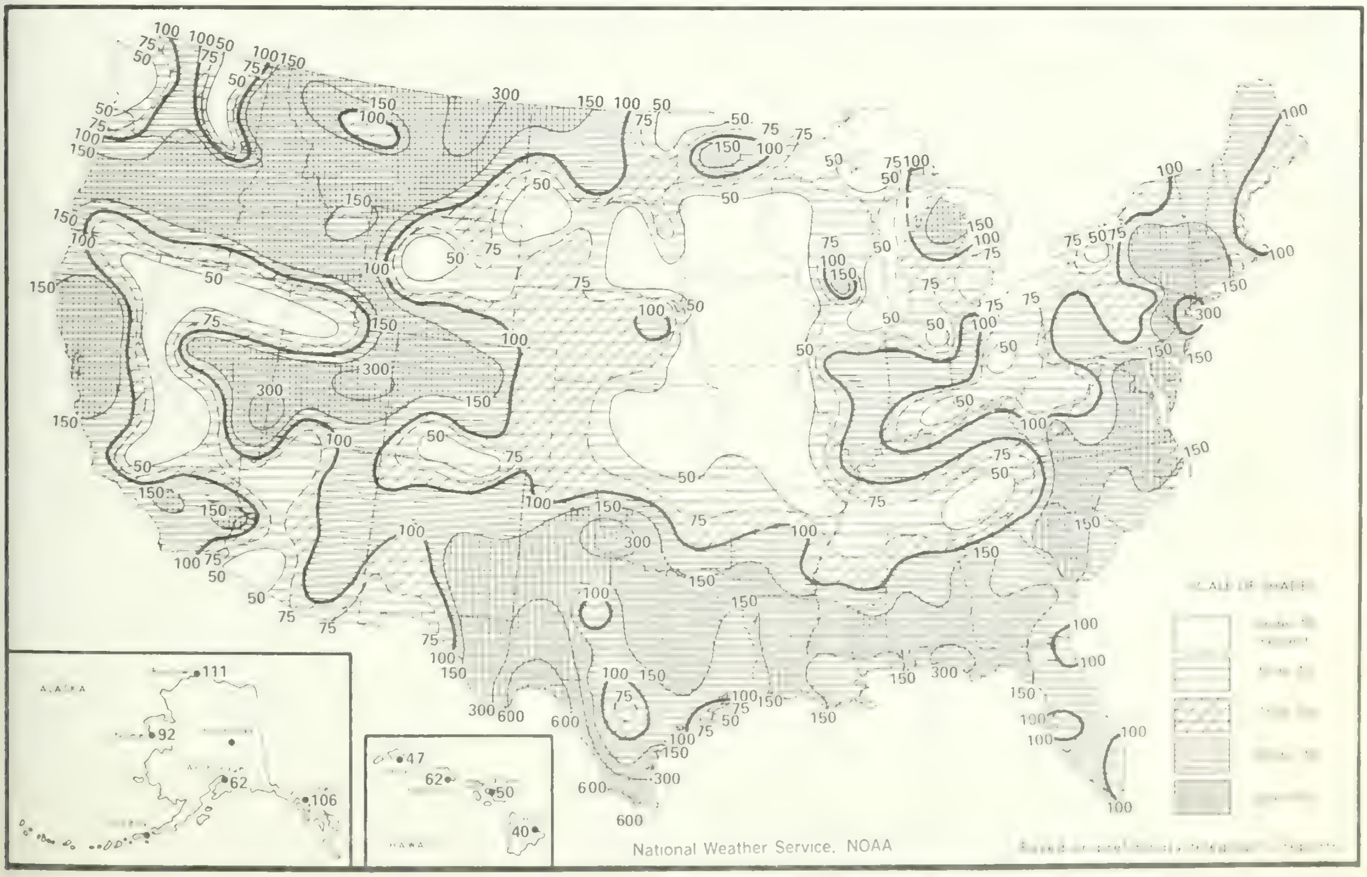
Chart II. A. Total Precipitation (Inches), July 1975


SCALE OF SHADES
0 - 1 Inch
1 - 2 Inches
2 - 4 Inches
4 - 8 Inches
Over 8 Inches
ALASKA
1.0
2.2
1.3
5.0
HAWAII
0.9
0.6
0.2
3.8

National Weather Service, NOAA

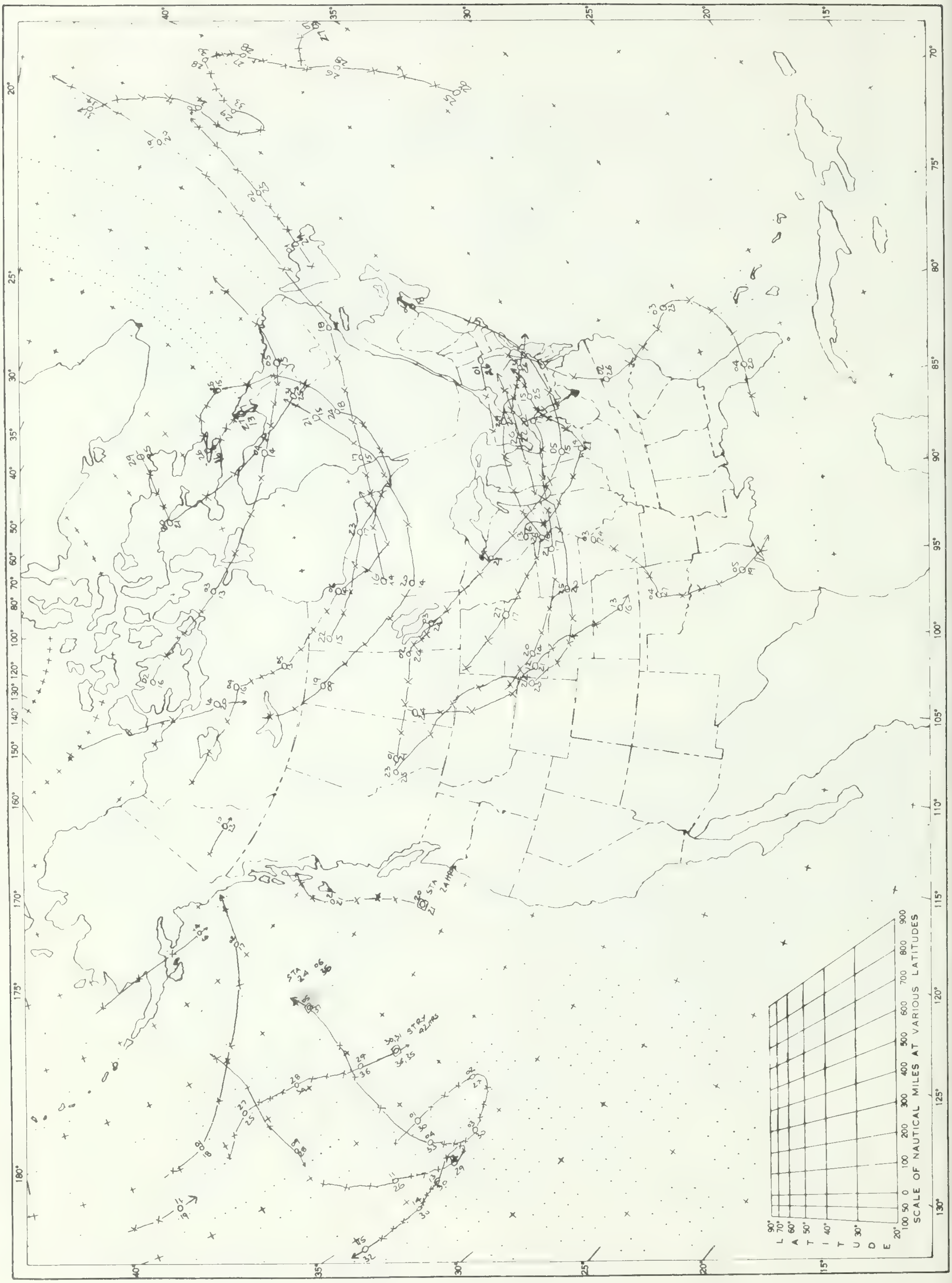
Based on preliminary telegraphic reports

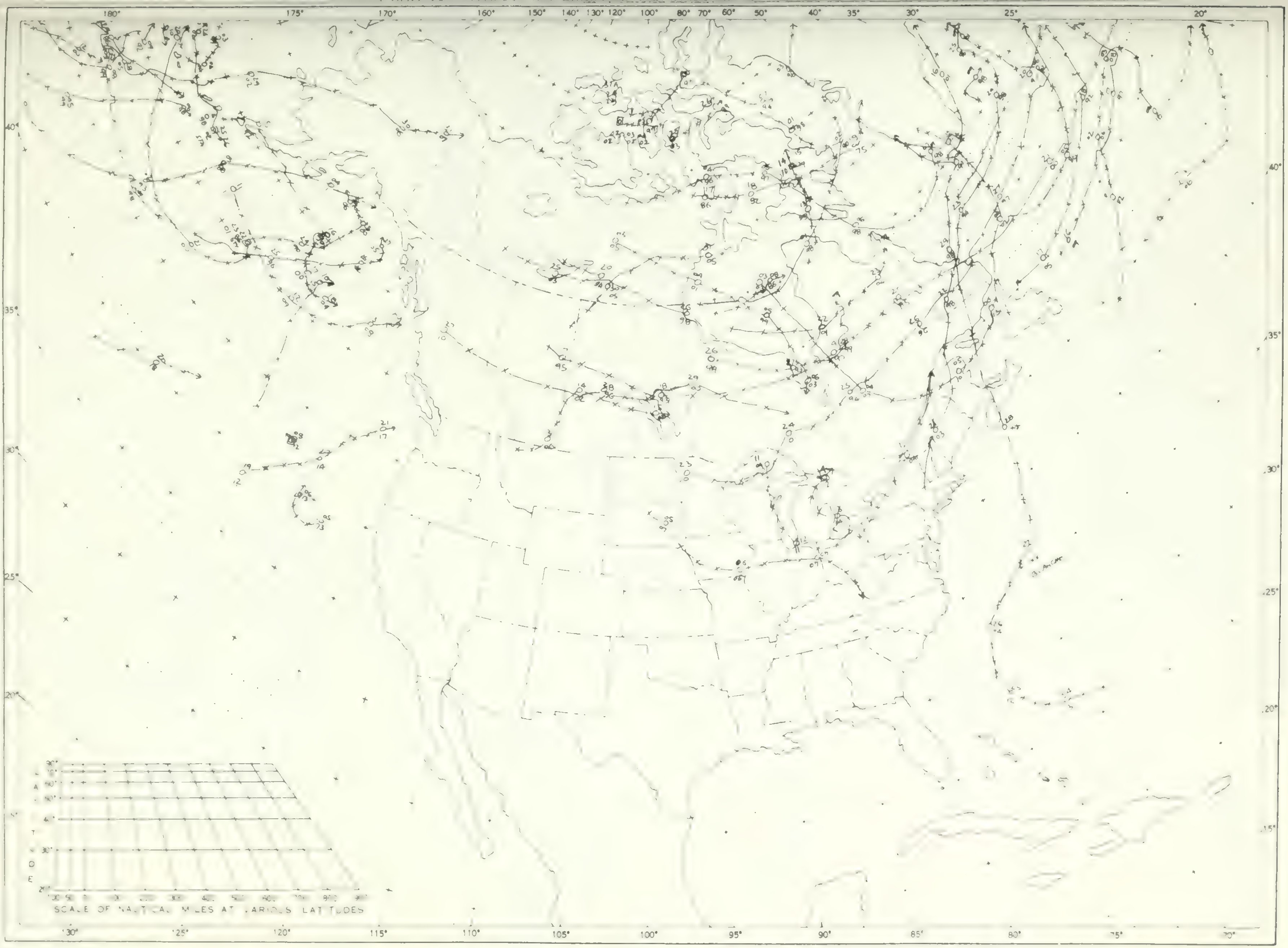
B. Percentage of Normal Precipitation, July 1975


ALASKA
111
92
62
106
HAWAII
47
62
50
40

National Weather Service, NOAA

Chart III. Tracks of Centers of Anticyclones at Sea Level, July 1975


SCALE OF NAUTICAL MILES AT VARIOUS LATITUDES
LATITUDE
90°
70°
60°
50°
40°
30°
20°
100 50 0 100 200 300 400 500 600 700 800 900
STA 24 HRS
STA 24 06 36
30,31 STRY 42 HRS
34,35


SCALE OF NAUTICAL MILES AT VARIOUS LATITUDES
180°
175°
170°
160°
150°
140°
130°
120°
100°
80°
70°
60°
50°
40°
35°
30°
25°
20°
130°
125°
120°
115°
110°
105°
100°
95°
90°
85°
80°
75°
70°

Circle indicates position of center at 7:00 a.m. E.S.T. Figure above circle indicates date, figure below, pressure to nearest millibar. Dots indicate intervening 6 hourly positions. Squares indicate position of stationary center for period shown. Dashed line in track indicates reformation at new position. Only those centers which could be identified for 24 hours or more are included.

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1776-1976

AUGUST 1975 VOLUME 26 NUMBER 8

CLIMATOLOGICAL DATA

NATIONAL SUMMARY

DEPARTMENT OF COMMERCE
UNITED STATES OF AMERICA

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Thomas D. Potter
DIRECTOR
NATIONAL CLIMATIC CENTER

noaa NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL DATA SERVICE / NATIONAL CLIMATIC CENTER ASHEVILLE, N.C.

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NOTE: Late reports and corrections will be carried in the June and December issues of this publication. An explanatory page "Description of Charts" will be carried in the January and July issues.

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CLIMATOLOGICAL DATA

NATIONAL SUMMARY

AUGUST 1975

GENERAL SUMMARY OF WEATHER CONDITIONS

Dr. Richard E. Felch, Climatologist

HIGHLIGHTS: August rainfall across the Nation ranged from little or no precipitation at several western stations to 11.69 inches at Baton Rouge, Louisiana. Rainfall in most areas east of a line from eastern South Dakota to Louisiana was well above normal, except in the southern Atlantic Coast States. West Texas, the Pacific Northwest, and some stations in California also measured well above normal rainfall. Much of the long-awaited moisture in the North Atlantic States, particularly in Minnesota, Iowa, and Missouri, came too late to prevent serious moisture stress to row crops, which are ahead of last year and normal.

Temperatures generally averaged above normal from the Plains eastward and in the Southwest.

August began by bringing unwanted rain to the Deep South, much needed rain to some North Central States, and record heat and stagnant polluted air to the East. In the last few days of July and first few days of August over 10 inches of rain fell along the Gulf Coast. Temperatures over 100° were common throughout New England. Boston experienced its warmest night in over 100 years with an early morning low of 83° on the 2d.

During the week ending on the 10th, temperatures averaged below normal in the East, finally breaking the extreme heat. The Corn Belt was also cooler than normal. Only the Southwest, central Great Plains, and western Corn Belt reported above normal temperatures. However, little precipitation fell in most areas. The only significant rainfall spread from the Gulf States northeastward to New England ahead of the cold front that broke the heat wave.

The best rainfall in many weeks favored the Corn Belt during the 13th-17th, when over 2 inches fell in parts of Missouri, Iowa, and Illinois. Rains aided development of row crops, but moisture shortages continued to cause stress, particularly in the North Central States. Heavy rains also fell in parts of Oklahoma, Arkansas, and the Appalachians.

Above normal temperatures returned to the eastern half of the Nation, but readings were below normal in the West, except the Pacific Northwest.

Above normal temperatures, plus heavy rains in the northern Corn Belt States, continued to push crop development during the 19th-24th. Dry conditions, though, persisted in the central Great Plains. The Pacific Northwest received unusually heavy precipitation for this time of the year, when two frontal systems passed through the area, causing some harvesting problems.

Unseasonably cool temperatures along the Canadian border and in the western States contrasted the hot, humid conditions in the mid-Atlantic Coast States.

Cooler temperatures descended on the Nation's midsection, in the final week of August. Heavy rains accompanied the cooler air and relieved many dry areas but caused problems for a few wet areas. Heavy rains, cooler temperatures and sometimes damaging winds were associated with the two frontal systems.

HURRICANE CAROLINE

AUGUST 24 - SEPTEMBER 1, 1975

National Hurricane Center, NOAA
Miami, Florida

Caroline originated as a tropical disturbance which crossed the west coast of Africa on August 15. The disturbance then moved towards the west southwest at 15 kts or slightly faster along the Intertropical Convergence (ITC) Zone. On the 18th, the system turned toward the northwest, breaking away from the ITC zone and gradually slowed its forward speed. By the time it reached a point about 600 mi. northeast of Puerto Rico, on the 22d, the speed of movement was 10 to 12 kts.

A second marked change in direction occurred on the 22d and 23d when the disturbance began heading towards the southwest. By midday on the 24th, satellite pictures showed that a closed circulation had been established at the surface with maximum winds of 25 knots and a central pressure of 1011 mbs. At this time, the system was identified as Tropical Depression number 5 of the 1975 Atlantic hurricane season.

The depression proceeded through the extreme southeastern Bahamas and across the mountainous terrain of eastern Cuba, where it briefly lost tropical depression status.

By the 27th, a closed surface circulation was reestablished and the depression had passed south of western Cuba. It was now moving in a direction just north of west and early on the 28th had passed through the Yucatan channel and moved into the southwest Gulf of Mexico.

The depression was located about 150 miles northwest of Merida and moving west northwestward at about 8 kts by the afternoon of the 28th. Satellite-observed cloud motions indicated that an upper level anticyclone had become established over the depression which resulted in a more favorable situation for intensification. Caroline was named a tropical storm early on the 29th as surface winds reached 35 kts and the central pressure dropped to near 1000 mbs. This occurred with the storm a little less than 400 mi. east southeast of Brownsville. At this time, because of the slowing of Caroline's forward speed and because of some indications of the possibility of a more northerly course, public statements were issued to interests along the south Texas coast as well as for northeast Mexico. These statements advised persons planning Labor Day holiday weekends along the seashore to keep in touch with future releases.

However, the storm proceeded to move just north of west and slowed to about 5 kts while continuing to intensify, and was upgraded to a hurricane on the 29th. A hurricane watch was announced for the Brownsville area on the morning of the 30th, as well as warning the northeast coast of Mexico, that the path of Caroline would project a landfall midway between Tampico and Brownsville.

Landfall actually occurred on the morning of the 31st, about 100 mi. south of Brownsville on the Mexican coast. Caroline's central pressure dropped four millibars per hour for about a six-hour period just prior to landfall. Maximum surface winds measured by Air Force reconnaissance aircraft were 100 kts and minimum measured sea level pressure was 963 millibars, both of these measurements within several hours prior to landfall.

The maximum wind reported by a land station was 42 kts at Brownsville on the 30th at 1642 GMT. Some minor flooding occurred in southeast Texas from heavy rain. No official reports have been received from Mexico. An air tour of the Mexican coast, by Mr. Dreumont of the Brownsville Weather Office, from Brownsville to the point of landfall approximately 100 mi. south, indicates that some rather significant flooding occurred with several small communities destroyed, presumably from the storm surge effect.

HURRICANE CAROLINE

AUGUST 24 - SEPTEMBER 1, 1975

Preliminary Track

DATE	TIME GMT	POSITION		LOWEST PRESSURE (MBS)	MAXIMUM WIND (KTS)	STAGE
		LATITUDE	LONGITUDE			
8/24	1200Z	22.4	69.8	1011	25	Tropical Depression
	1800Z	21.9	71.1	1011	25	
8/25	0000Z	21.6	72.5	1010	25	
	0600Z	21.2	73.8	1010	25	
	1200Z	20.9	75.1	1011	25	
	1800Z	20.6	76.4	1011	25	
8/26	0000Z	20.4	77.7	1011	25	
	0600Z	20.3	79.0	1011	25	
	1200Z	20.2	80.3	1012	25	
	1800Z	20.2	81.6	1012	25	
8/27	0000Z	20.4	82.8	1013	25	
	0600Z	20.8	84.0	1013	25	
	1200Z	21.1	85.1	1014	25	
	1800Z	21.5	86.3	1014	25	
8/28	0000Z	22.0	87.5	1014	25	
	0600Z	22.4	88.8	1014	25	
	1200Z	22.8	90.1	1013	25	
	1800Z	22.9	91.0	1010	25	
8/29	0000Z	23.0	91.9	1007	30	
	0600Z	23.1	92.6	1003	35	Tropical Storm
	1200Z	23.2	93.2	999	40	
	1800Z	23.2	93.6	994	50	
8/30	0000Z	23.3	94.2	990	65	Hurricane
	0600Z	23.5	94.9	990	65	
	1200Z	23.7	95.6	989	65	
	1800Z	23.8	96.3	987	70	
8/31	0000Z	24.0	97.0	973	100	
	0600Z	24.1	97.5	963	100	
	1200Z	24.3	97.8	963	90	Landfall
	1800Z	24.8	98.0	993	55	Tropical Storm
9/01	0000Z	25.1	98.3	1000	30	Tropical Depression
	0600Z	25.2	98.7	1002	20	
	1200Z	25.3	99.0	1002		

HURRICANE DORIS

AUGUST 28 - SEPTEMBER 4, 1975

National Hurricane Center, NOAA
Miami, Florida

Hurricane Doris developed from a subtropical system in the mid-Atlantic.

On August 27, a front which had swept southeastward over the north Atlantic was becoming stationary from the Azores southwestward. Ship reports that day suggested development of a wave along the front around latitude 31N, longitude 46W, although surface pressures were no lower than 1016 mb., as satellite photographs showed broadening of the cloud band associated with the front in that area. The system deepened during the next two days while satellite photographs showed that the associated cloud mass was becoming circular and completely isolated from the original frontal band. Although the system was not designated a subtropical storm until the 29th, post-analysis suggests it reached that stage on the 28th.

At the outset, the storm's structure was typical of many subtropical cyclones investigated by Hebert and Poteat in the development of their subtropical classification system. There was no central dense overcast (CDO), and a band of strong convection existed well southeast of the surface center. However, the CDO began gradually to appear and by the 30th there was a well-defined CDO nearly three degrees of latitude in diameter. An eye was in evidence by the 31st, and the system was upgraded to a hurricane on the basis of satellite photograph evaluation. Further intensification ensued, the hurricane reaching its maximum strength on September 2 and 3 when its maximum winds were estimated at 95 kt with a minimum sea level pressure of 965 mb. By the 4th the storm had become absorbed in a prefrontal trough, losing tropical structure and strength as it moved on a north northeastward course north of latitude 40N.

Unfortunately there are few data available, apart from ship reports and satellite imagery, to monitor the transformation of Doris from any essentially cold-core system to a hurricane. However, on the 28th, when storm strength was attained, the surface circulation center was situated directly beneath the upper level low (200 mb). There was little change in their relative positions until the 31st when the 200 mb low became an open trough with the hurricane located slightly west of its axis. By September 1, the trough had disappeared and Doris was under weak upper anticyclonic flow until the 3d when it moved under cyclonically curved westerlies, after which it weakened rapidly.

The initial motion of the storm was toward the northwest. After two days it turned east southeastward in response to a prefrontal trough extending to lower latitudes. Finally, it accelerated north northeastward ahead of a deepening extratropical low off the Canadian Maritime provinces.

The hurricane was never a threat to any land area. It was monitored almost exclusively by ships and satellite, having been located beyond the authorized range of reconnaissance aircraft.

HURRICANE DORIS

AUGUST 28 - SEPTEMBER 4, 1975

Preliminary Track

DATE	TIME Z	LAT. N	LONG. W	MAX. WIND (KT)	MIN. S.L.P. (MB)	STAGE
AUG. 28	1200	33.3	46.3	35	1005	Subtropical
	1800	33.6	47.5	40		
29	0000	34.5	48.1			
	0600	34.7	48.5			
	1200	34.9	48.9			
	1800	35.2	49.1	50	1000	
30	0000	35.3	48.9	55	997	Tropical Storm
	0600	35.3	48.5			
	1200	35.3	48.0			
	1800	35.0	47.1			
31	0000	34.9	46.3	65	990	Hurricane
	0600	34.8	45.7			
	1200	34.7	45.2			
	1800	34.6	44.9			
SEPT. 1	0000	34.5	44.6	75	984	
	0600	34.6	44.2			
	1200	34.9	44.0			
	1800	35.4	44.0			
2	0000	35.8	44.4	90	970	
	0600	36.4	44.5	95	965	
	1200	37.0	44.3			
	1800	37.7	44.2			
3	0000	38.4	43.8			
	0600	39.7	43.6			
	1200	41.1	43.0			
	1800	42.0	42.5	90	970	
4	0000	42.8	42.0	60	995	Tropical Storm
	0600	43.2	41.4	45	1005	Extratropical
	1200	43.5	40.7			

OBSERVED EXTREMES OF TEMPERATURE AND PRECIPITATION -- BY STATES

AUGUST 1975

STATE	Temperature						Precipitation			
	Monthly extremes						Monthly extremes			
	Station	Highest	Date	Station	Lowest	Date	Station	Greatest	Station	Least
		°F			°F			In.		In.
Alabama	Bankhead Lock and Dam	99	14	Florence	56	8	Robertdale	15.06	Talladega	1.70
Alaska	University Exp. Station	83	15	Tonsina Lodge	17	29	Mac Leod Harbor	17.42	Barter Island WSO Airport	.33
Arizona	Gila Bend	120	4	Fort Valley	26	30	Sells	3.68	13 Stations	.00
Arkansas	2 Stations	101	13	3 Stations	54	9+	Evening Shade 1 NE	12.27	Brinkley	.97
California	Death Valley	122	6+	White Mountain 2	23	19	Blue Canyon WSO Airport	3.10	159 Stations	.00
Colorado	Las Animas	106	7	Nederland 2 NNE	19	25	Holly	4.27	2 Stations	.07
Connecticut	Hartford-Brainard Field	102	3	Wigwam Reservoir	37	21	Mount Carmel	5.59	New Haven	1.87
Delaware	Milford 2 WSW	103	26	2 Stations	52	29	Lewes 1 SW	5.86	Bridgeville 1 NW	1.40
Florida	2 Stations	98	26	4 Stations	63	26+	Babson Park	13.13	Okeechobee Hrcn. Gate 6	1.60
Georgia	Hartwell	102	26	Clayton 1 SSW	56	30	Beaverdale 1 E	9.84	Ailey	.70
Hawaii	Keawakapu Beach, Maui	91	18	Mauna Loa Slope Obs., HI	31	20	Paakea 350, Maui	17.38	16 Stations	.00
Idaho	Glenns Ferry	104	4	Ketchum Ranger Station	22	30	Pierce	4.74	2 Stations	.00
Illinois	Carlyle Reservoir	101	13	Aledo	43	7	Rantoul	10.49	Flora 5 NW	1.93
Indiana	2 Stations	97	23+	Waterloo	45	8	Delphi 3 NNE	10.94	Greenfield	1.64
Iowa	5 Stations	101	24+	Elkader 5 SSW	37	7	Primghar	12.26	Clarinda	2.20
Kansas	Bison	108	24	Kirwin Dam	46	26	Mound City	9.94	Coldwater	.14
Kentucky	Bernheim Forest	98	27	Vanceburg	50	9	Jamestown	8.86	Mammoth Cave Park	1.34
Louisiana	Natchitoches	99	26	2 Stations	63	26	Morgan City	16.14	Keithville	.39
Maine	Jonesboro	104	3	Haynesville	29	31	Sanford 2 NNW	4.92	Houlton	.34
Maryland	2 Stations	101	3	Oakland 1 SE	12	9	Oakland 1 SE	12.35	Salisbury	1.45
Massachusetts	2 Stations	107	2	Chester 2	34	23	South Wellfleet	8.55	Edgartown	2.29
Michigan	Gull Lake Biol. Station	100	1	Herman	30	18	Hesperia 4 WNW	13.01	Copper Hrbr. Ft. Wilkns	1.22
Minnesota	Redwood Falls FAA Airport	99	3	Tower 3 S	24	18	Stillwater 1 SE	8.02	Hallock	.83
Mississippi	Pascagoula 2 ENE	98	27	Houston 2 NE	58	8	Bay Saint Louis	13.34	Arkabutla Dam	1.38
Missouri	Harrisonville	105	12	Steelville 2 N	45	8	Osceola	13.72	St. Joseph 4 WNW	.97
Montana	[illegible] 1 N	107	7	Cooke City	21	29	Bigfork 13 S	5.50	2 Stations	.10
Nebraska	Fort Robinson	107	1	Agate 3 E	31	25	Plattsmouth	6.91	Clay Center	T
Nevada	Sunrise Manr. Las Vegas	115	8	2 Stations	25	31	Valley of Fire St. Pk.	2.94	2 Stations	T
New Hampshire	Greenland	104	2	Mount Washington	30	31	Peterboro 2 S	7.97	Colebrook 2 E	1.50
New Jersey	10 Stations	100	4	2 Stations	45	23+	Indian Mills 2 W	6.93	Tuckerton	1.34
New Mexico	Shiprock	105	10	Wolf Canyon	28	29	Cliff 10 SE	3.91	Jal	T
New York	New York Laurel Hill	104	2	Old Forge	31	23	Northville	10.73	Massena FAA Airport	.79
North Carolina	3 Stations	101	27+	Oconaluftee	47	27	Bent Creek	6.68	Ocracoke	.32
North Dakota	Fort Yates	100	7	Hannah 2 N	32	18	Medina	5.44	Sentinel Butte 20 S	.28
Ohio	3 Stations	98	1	Millport 2 NW	40	8	Napoleon Water Works	11.65	Ironton	1.94
Oklahoma	Alva	106	31	4 Stations	53	26+	Marietta 5 NW	10.07	Hooker 2 SW	.36
Oregon	Richland	101	7+	‡2 Stations	20	31	Valsetz	6.41	Buena Vista Station	.00
Pennsylvania	Plamerton	105	2	Clermont 4 NW	36	9+	Newell	10.15	Holtwood	1.22
Puerto Rico	2 Stations	96	28+	Adjuntas Substation	54	23	Mayaguez Nuclear Ctr.	17.47	Coamo 4 S	1.49
Rhode Island	Providence WSO Airport	101	2	Kingston	43	21	Woonsocket	4.45	Providence WSO Airport	2.19
South Carolina	Calhoun Falls	103	25	Ninety Nine Islands	56	29	Summerville 2 WNW	7.74	Longcreek 1 N	.63
South Dakota	Porcupine 16 NW	112	7	2 Stations	36	25	Marion	10.82	Vale	.04
Tennessee	Norris	100	27	Mountain City No. 2	49	30	Conasauga 1 NNW	7.62	Shelbyville 3	1.31
Texas	Falcon Dam	111	1	Sierra Blanca	50	11	Anahuac Tbcd.	12.14	Monahans	07
Utah	Saint George	107	4	3 Stations	24	25	Beaver Canyon Ph.	1.98	8 Stations	.00
Vermont	Cornwall	100	2	Northfield 3 SSE	33	31	Readsboro 1 SSE	9.02	Saint Albans Bay	1.56
Virginia	4 Stations	100	27+	Monterey	42	8	Winchester 1 N	7.89	Newport 2 NW	.54
Virgin Islands	Frenchmans Bay	95	2	4 Stations	70	24	Ham Bluff L. H. Station	3.62	Tague Bay	1.26
Washington	Ephrata FAA Airport	103	14	2 Stations	31	31	Quinault Ranger Station	11.12	Wilbur	.56
West Virginia	Berkeley Springs	99	4	Bayard	41	9+	Moundsville	11.68	Renick No. 2	.87
Wisconsin	Marinette	97	1	Jump River 5 E	29	18	Menomonie	11.78	Ashland Exp. Farm	2.20
Wyoming	Colony	107	7	Kendall	15	26	Jay EM	2.86	4 Stations	.00

‡ Extreme occurred at station with incomplete data which may have been exceeded.

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation on ground	Pressure: Station	Pressure: Sea level	Temperature: Average maximum	Temperature: Average minimum	Temperature: Average	Temperature: Departure from normal	Temperature: Highest	Temperature: Date	Temperature: Lowest	Temperature: Date	No. of days: Max 32.2 °C or above	No. of days: Min 0 C or lower	Average dew point	Average relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	No. of days: 25 mm or more	No. of days: With thunderstorms	Snow, Ice pellets: Total	Snow, Ice pellets: Maximum depth on ground	Wind: Resultant speed	Wind: Resultant direction	Fastest mile (1.6 kilometers): Speed	Fastest mile: Direction	Fastest mile: Date	No. of days (sunrise to sunset): Clear 0-3	Partly cloudy 4-7	Cloudy 8-10	Sky cover tenths (sunrise to sunset)	Possible sunshine
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
ALABAMA																																
BIRMINGHAM	189	994.3	1018.5	31.3	21.1	26.2	-0.1	33.9	27+	17.2	7	14	0	21.7	82	85	-25	15	16	10	0	0	0.3	9	13.4	5	26	5	14	12	6.2	60
HUNTSVILLE	190	995.9	1018.8	30.9	20.3	25.6	-0.5	33.9	27	18.3	9+	9	0	21.7	82	91	3	27	13	9	0	0	0.8	15	11.2	20	26	11	13	7	5.3	
MOBILE	64	1011.2	1017.9	32.1	23.1	27.6	0.1	34.4	27+	20.6	8	20	0	21.7	75	216	40	75	19	19	0	0	0.8	16	10.3	1	27	3	17	11	6.6	
MONTGOMERY	59	1011.2	1018.3	32.7	23.1	27.9	0.8	35.0	27+	21.7	30+	20	0	23.3	80	106	18	42	10	13	0	0	0.4	17	11.6	SW	8	11	14	6	5.0	75
ALASKA												B																				
ANCHORAGE	38	1008.5	1013.5	17.0	10.3	13.7	0.4	21.7	7	3.3	29	1	0	7.2	67	30	-29	12	13	2	0	0	1.0	21	9.4	17	11+	2	7	22	8.2	53
ANNETTE	34	1011.5	1015.4	16.7	9.8	13.3	-1.3	24.4	13	6.7	3	4	0	10.0	86	167	-15	43	17	0	0	0	1.2	18	9.4	16	5	2	6	23	8.3	
BARROW	9	1011.5	1012.1	3.9	-0.9	1.5	-1.6	15.0	14	-3.3	31	0	28	0.6	95	29	3	12	15	0	38	T	1.1	27	13.0	26	26+	1	6	24	8.9	
BARTER ISLAND	12	1010.2	1012.1	5.3	-0.3	2.5	-1.3	17.8	13	-3.3	31	0	20	1.1	93	8	-24	2	13	1	33	T	0.7	32	17.9	26	27	1	4	26	8.7	
BETHEL	36	1008.5	1014.1	16.5	8.3	12.4	1.1	21.7	11	4.4	5	3	0	8.9	82	61	-40	11	13	0	0	0	1.2	27	13.4	20	25	3	6	22	8.0	
BETTLES	194			17.5	6.8	12.2	1.1	26.1	14	0.0	27	8	1			17	-53	7	8		0	0			14.3	35	26	1	12	18	7.6	
BIG DELTA	388			16.7	7.4	12.1	-0.6	23.3	12	-1.7	29	6	2			94	46	18	17		0	0										
COLD BAY	29	1011.2	1014.8	14.2	8.4	11.4	0.7	19.4	4	3.9	3+	0	0	8.9	89	28	-71	8	13	0	0	0	1.3	23	13.4	13	17	0	1	30	9.7	
FAIRBANKS	133	995.3	1012.4	18.6	8.2	13.4	0.4	27.8	15	1.7	29	9	0	7.8	73	53	-2	14	15	1	0	0	0.9	24	13.0	14	15	0	9	22	8.2	
GULKANA	479			17.9	4.9	11.4	-0.3	21.7	23+	-3.3	30	3	5			47	7	14	13		0	0										
HOMER	19	1010.2	[illegible]	15.7	6.8	11.3		20.6	3	1.7	29	0	0			13	-52	4	8	0	0	0	0.8	25	9.4	3	12	4	9	18	7.4	
JUNEAU	6	1013.5	1014.3	17.0	7.3	12.2	-0.2	23.9	4	3.3	3	6	0	8.3	81	71	-56	23	19	0	0	0	1.1	8	9.4	13	17	2	4	25	8.5	35
KING SALMON	18	1011.2	1013.3	16.8	7.2	12.0	-0.1	22.2	10+	2.8	23	2	0	8.3	79	27	-61	6	13	0	0	0	0.8	19	13.0	10	11	1	12	18	7.8	
KODIAK	6	1009.5	1013.6	14.5	7.6	11.1	-1.7	21.1	3	3.9	21	1	0	7.8	84	152	42	75	14	0	0	0	1.5	36	13.0	31	27+	4	9	18	7.6	
KOTZEBUE	3	1011.2	1011.6	13.5	8.1	10.8	0.4	20.0	10	3.3	6	0	0	8.3	85	38	-19	20	8	0	0	0	3.4	29	17.9	18	25	4	10	17	7.2	
MC GRATH	103	1000.7	1013.1	18.2	6.7	12.2	0.3	23.9	12	-1.1	28	7	1	7.2	75	59	-24	35	12	2	0	0	0.6	28	7.6	30	26+	1	14	16	7.5	
NOME	4	1011.5	1012.3	13.2	6.2	9.7	0.2	20.0	12	0.6	9	0	0	7.2	82	67	-24	35	10	0	0	0	1.9	25	16.5	24	25	3	6	22	8.2	37
ST. PAUL ISLAND	7	1013.5	1014.4	10.4	6.7	8.6	-0.1	13.3	23	1.7	10+	0	0	7.8	96	36	-52	8	13	0	0	0	0.4	3	14.3	22	25	2	1	28	9.1	
SUMMIT	731			13.8	4.6	9.2	0.0	21.1	12	-1.7	29	1	2			59	-25	13	18	0	0	0			13.9	22	15	2	6	23	8.4	
TALKEETNA	108			18.5	7.1	12.9	0.3	23.3	5	-1.1	29	6	1			61	-63	15	13	1	0	0			9.8	17	10+					
UNALAKLEET	[illegible]			16.2	9.2	12.7		26.7	13+	2.8	27	5	0			47		11	14		0	0			17.4	19	25					
VALDEZ	7			16.3	8.7	12.5	1.4	24.4	4	4.4	30	2	0			87	-61		16		0				10.3	9	27					
YAKUTAT	9	1013.2	1014.1	14.8	7.1	11.0	-0.6	24.4	[illegible]	1.1	30	1	0	8.3	84	113	-161	21	15	0	0	0	0.5	9	9.8	11	17	6	4	21	7.7	
ARIZONA																																
FLAGSTAFF	2138	792.4	[illegible]	28.2	6.8	17.5	-0.1	32.2	6+	1.7	28	2	0	4.4	48	19	-49	11	6	9	0	0	1.3	22	8.9	W	31	21	6	4	3.1	61
PHOENIX	340	971.9	1009.5	41.1	25.4	33.3	1.6	46.7	4	20.6	18	31	0	10.6	27	T	-31	T	0	5	0	0	0.3	21	21.0Y	SE	10	25	5	1	1.6	97
TUCSON	788	924.8	1011.1	37.1	22.7	29.9	1.1	41.1	4	20.6	21+	31	0	11.1	34	8	-51	3	4	7	0	0	0.7	22	18.8	S	5	23	5	3	2.9	92
WINSLOW	1492	853.7	1013.6	33.6	14.8	24.2	-0.3	37.8	5	10.6	18	22	0	4.4	37	15	-23	8	6	8	0	0	1.1	21	12.5	23	26	14	13	4	3.6	
YUMA	59	[illegible]	1009.1	41.3	25.7	33.5	-0.3	45.6	4	20.0	17	31	0	13.3	33	T	-11	T	0	1	0	0	2.5	19	12.5	SE	8	26	5	0	1.2	94
ARKANSAS																																
FORT SMITH	134	[illegible]	1016.2	31.7	20.9	26.3	-1.1	36.1	13	17.2	9	15	0	20.0	73	125	51	36	12	11	0	0	0.9	9	19.2	E	6	12	10	9	5.4	66
LITTLE ROCK	78	1007.8	1016.9	31.7	21.1	26.4	-0.6	35.0	29	17.8	9	17	0	21.7	80	69	-7	43	9	10	0	0	0.8	16	15.2	NE	6	10	11	10	5.4	64
CALIFORNIA																																
BAKERSFIELD	148	995.3	1012.5	35.7	20.8	28.3	0.8	41.1	10+	15.0	27	25	0			1	1	1	1	0	0	0	1.7	32	10.3	32	16	26	5	0	1.1	
BISHOP	1252	873.4		34.7	10.9	22.8	-0.6	39.4	7	6.1	21	26	0			[illegible]	[illegible]	2	3		0	0			20.1Y		6	22	8	1	2.7	
BLUE CANYON	[illegible]	841.2		23.3	12.5	17.9	-1.4	30.0	3	5.6	28	0	0			79	72	42	5		0	0			7.6	21	27	24	4	3	2.2	
EUREKA	13			15.3	10.6	12.9	-0.9	22.2	27	8.3	7	0	0			15	8	9	2		0	0			12.5	N	7	5	10	16	6.7	42
FRESNO	100	1001.4	1012.8	33.6	15.1	24.4	-1.3	39.4	4+	12.2	31+	24	0	12.2	51	1	1	1	1	0	0	0	1.5	29	9.8	NW	18	26	4	1	1.3	95
LONG BEACH	8	1012.9	1014.1	27.9	17.2	22.6	-0.3	32.8	6	13.9	28+	2	0	15.6	73	0	-1	0	0	0	0	0	1.2	25	7.2	30	22+	20	10	1	3.1	
LOS ANGELES	30	1010.5	1014.1	23.4	16.9	20.2	-0.7	29.4	8	14.4	28+	0	0	15.6	79	T	-1	T	0	0	0	0	2.7	25	10.3Y	W	16	10	18	3	4.1	
LOS ANGELES	82			27.4	16.8	22.2	-1.2	33.9	7	14.4	28+	1	0			0	-1	0	0		0	0			5.8	SW	13	24	7	0	2.4	
MT SHASTA	1080	893.7	1016.0	26.7	8.8	17.8	-1.1	33.3	3	3.9	29	4	0	6.1	50	8	1	5	4		0	0	0.4	36								
OAKLAND	2	1015.2	1015.5	21.4	13.7	17.6	0.1	30.6	8	11.1	7	0	0	12.8	78	3	2	3	1	0	0	0	3.4	29	10.7	27	6	19	9	3	3.3	
RED BLUFF	104	[illegible]	1012.8	33.8	16.9	25.4	-1.2	41.1	3	13.9	31+	21	0			13	9	8	2	1	0	0	1.0	18	10.3	SE	6	25	3	3	2.0	94
SACRAMENTO	8	1012.2	1013.1	34.0	15.9	24.9	1.6	41.1	3+	12.8	14	21	0	12.2	52	6	5	6	1	0	0	0	2.8	20	11.2	SW	6	25	5	1	1.6	89
SANDBERG	1377	864.2		28.1	15.4	21.8	-1.0	35.0	8+	9.4	20	8	0			T	-1	T	1		0	0			13.9	34	29					
SAN DIEGO	4	[illegible]	1014.3	23.4	17.6	20.5	-1.4	25.0	24+	14.4	25	0	0	15.0	74	T	-2	T	0	0	0	0	2.5	[illegible]	8.0	W	24	20	6	5	4.2	[illegible]
SAN FRANCISCO	2	[illegible]	1015.3	22.4	12.0	17.2	0.0	31.7	1	9.4	7	0	0	10.6	72	5	5	5	1	0	0	0	3.9	[illegible]	11.2	30	31	23	5	3	2.6	
SAN FRANCISCO	16			18.3	12.2	15.3	0.1	26.1	8	10.6	14	0	0			1	-1	1	1			0										
SANTA MARIA	72			22.7	11.4	17.2	0.3	29.4	8	7.8	30+	0	0			T	-1	T	0		0	0						15	15	1	3.5	
STOCKTON	7	1012.5	1013.5	32.3	15.4	23.9	-0.2	40.0	3	12.2	31	15	0	12.2	55	21	20	21	1	0	0	0	2.9	[illegible]	9.4	25	5	25	4	1	1.7	
COLORADO																																
ALAMOSA	2297	[illegible]		26.4	6.4	16.4	-0.6	30.0	7	0.6	31	0	0			29	-6	11	9		0	0						18	5	8	4.0	

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure		Temperature								No. of days			Average relative humidity	Precipitation			No of days		Snow, Ice pellets		Wind		Fastest mile (1.6 kilometers)			No. of days (sunrise to sunset)			Sky cover, tenths (sunrise to sunset)	Possible sunshine
		Station ∅	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min 0 C or lower	Average dew point		Total	Departure from normal	Greatest in 24 hours	25 mm or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10		
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m s		m s							%
COLORADO																																
COLORADO SPRINGS	1873	815.1	1014.4	28.9	13.5	21.2	0.6	33.9	7	8.3	26+	4	0	5.6	43	52	-13	28	9	11	0	0	0.8	4	15.6	29	7	15	10	6	4.0	
DENVER	1610	839.1	1013.4	30.1	12.9	21.6	-0.4	35.0	7	6.7	25	8	0	5.6	41	51	18	40	6	8	0	0	1.1	18	13.4	N	15	16	8	7	4.0	74
GRAND JUNCTION	1476	854.0	1012.9	32.7	15.5	24.1	0.0	36.7	8+	8.9	25	21	0	2.2	28	2	-24	2	2	3	0	0	1.2	13	13.4	E	14	19	7	5	3.3	84
PUEBLO	1428	856.8	1012.3	33.4	14.7	24.1	0.4	38.3	7+	8.9	31	25	0	9.4	46	57	7	33	8	7	0	0	0.0	17	17.9	SW	16+	14	13	4	3.8	90
CONNECTICUT																																
BRIDGEPORT	2	1016.3	1016.9	27.5	19.2	23.3	0.7	35.6	3+	13.3	21	6	0	17.8	74	49	-48	12	8	0	0	0	1.3	32	12.1	3	7	4	10	17	7.1	
HARTFORD	52	1010.2	1016.6	28.1	16.2	22.1	0.8	38.3	2	8.9	31	7	0	16.7	73	117	17	36	13	2	0	0	1.1	32	10.7	NW	22	7	10	14	6.6	56
DELAWARE																																
WILMINGTON	23	1014.2	1017.3	29.6	19.6	24.6	1.2	36.1	7	13.3	8	8	0	17.2	67	65	-36	34	10	4	0	0	1.2	30	14.3	31	13	7	10	14	6.3	
DIST.OF COLUMBIA																																
WASHINGTON DULLES	88	1006.4	1017.9	30.3	18.0	24.2	1.1	35.0	26+	10.6	8	8	0	19.4	80	137	29	94	11	9	0	0	0.3	25	13.0	31	11	9	9	13	5.9	
WASHINGTON NATIONAL	3	1015.6	1017.8	31.5	21.9	26.7	1.7	36.7	3	17.8	8	14	0	19.4	67	90	-29	41	11	10	0	0	0.5	26	11.6	NW	17	8	9	14	6.1	64
FLORIDA																																
APALACHICOLA J	6	1018.0	1018.0	31.4	23.1	27.3	-0.2	34.4	19	21.1	8	11	0	23.3	79	121	-84	34	9	18	0	0	0.5	14	8.0	S	28+	5	20	6	5.8	67
DAYTONA BEACH	9	1017.6	1019.1	31.4	22.4	26.9	-0.3	33.9	19	20.6	31	8	0	22.2	80	80	-93	27	8	19	0	0	1.4	11	9.4	9	8	6	19	6	5.3	
FORT MYERS	5	1018.0	1018.2	33.5	24.0	28.8	0.6	34.4	26+	22.2	7	31	0	22.8	77	197	1	51	18	20	0	0	1.6	8	12.1	9	14	3	22	6	5.9	
JACKSONVILLE	8	1018.3	1019.3	32.7	21.9	27.3	0.1	35.0	24	20.6	26	23	0	22.2	78	158	-42	62	17	14	0	0	0.6	16	12.1	SE	12	6	19	6	5.5	67
KEY WEST	1	1016.6	1017.4	31.9	26.4	29.2	-0.1	33.3	13	22.8	22	11	0	23.3	72	107	-7	41	14	19	0	0	4.2	11	13.9	E	8	2	23	6	5.9	86
LAKELAND J	65			32.7	22.1	27.4	-0.3	34.4	19	19.4	7	25	0			267	85	92	14		0	0						2	25	4	5.6	83
MIAMI	2	1018.3	1018.4	30.9	25.3	28.1	-0.2	32.2	18+	23.3	13+	2	0	24.4	82	132	-39	45	17	16	0	0	2.8	9	10.3	13	1	1	23	7	6.1	
ORLANDO/MC COY AFB	29	1015.2	1019.1	33.4	22.4	27.9	0.3	34.4	25+	20.6	3	31	0	22.2	78	121	-50	45	14	19	0	0	1.0	10	11.2	23	9	2	20	3	5.8	
PENSACOLA	34	1013.9	1018.1	31.8	23.7	27.8	0.1	35.0	27	21.1	8	18	0	22.2	74	128	-41	33	12	13	0	0	0.8	15	8.0	15	28	5	16	10	6.2	
TALLAHASSEE	17	1016.3	1018.6	32.6	22.2	27.4	0.1	35.6	25	21.1	31+	20	0	22.8	83	173	-2	50	16	17	0	0	0.3	11	12.5	11	21	5	18	8	5.9	
TAMPA	6	1018.0	1018.3	33.7	23.7	28.7	0.8	36.7	22	22.2	3	26	0	22.8	76	108	-95	27	15	23	0	0	1.0	9	8.0	25	2	2	20	9	6.4	74
WEST PALM BEACH	5	1018.0	1018.6	31.4	23.5	27.4	-0.5	32.8	23+	21.7	21	6	0	22.8	77	63	-112	18	10	14	0	0	2.6	10	9.8	7	21	3	23	5	5.7	
GEORGIA																																
ATHENS	244	990.2	1018.6	31.6	21.5	26.6	0.8	36.7	26	19.4	30	16	0	21.7	81	93	3	44	11	7	0	0	0.3	25	8.0	22	1	14	6	11	5.1	
ATLANTA	308	982.4	1018.7	30.3	20.7	25.5	0.2	33.9	27	19.4	30+	7	0	21.7	83	84	-6	32	10	5	0	0	0.3	19	19.7	W	26	12	7	12	5.5	
AUGUSTA	41	1013.2	1018.3	32.9	21.0	27.0	0.6	36.7	26+	17.8	30	24	0	20.0	72	90	-17	58	9	5	0	0	0.5	16	13.0	25	6	17	8	6	4.5	
COLUMBUS	117	1004.7		32.2	22.0	27.1	0.3	35.6	25	21.1	30+	16	0	21.7	77	104	-3	35	9	10	0	0	0.5	10	8.9	18	10+	12	9	10	5.4	
MACON	108	1006.1	1019.0	32.5	20.9	26.7	-0.4	36.7	26+	18.9	30	16	0	21.1	78	59	-38	17	10	9	0	0	0.3	18	12.1	NE	26	13	6	12	5.3	62
ROME	194			31.4	20.1	25.8	0.2	36.1	27	18.9	7	13	0			143	54	61	7		0	0										
SAVANNAH	14	1017.6	1019.4	32.5	22.7	27.6	0.6	35.0	24+	21.7	31+	17	0	22.2	79	80	-85	40	12	15	0	0	0.7	19	9.8	E	28	12	11	8	5.0	68
HAWAII																																
HILO	8	1016.6	1018.0	28.1	20.4	24.3	-0.1	29.4	22+	18.9	29	0	0	19.4	77	207	-70	35	28	0	0	0	0.4	33	8.9	E	22	0	12	19	7.6	47
HONOLULU	2	1016.9	1017.4	30.6	22.8	26.7	-0.3	31.7	31+	21.1	11	0	0	18.3	63	1	-19	1	2	0	0	0	6.4	6	12.1	E	14+	11	15	5	4.9	75
KAHULUI	15	1014.6	1016.9	29.2	20.9	25.1	-0.9	30.6	23	18.3	19	0	0			15	7	10	9	0	0	0	6.9	5	15.6	NE	23	11	14	6	4.6	72
LIHUE	31	1013.9	1019.0	28.1	23.2	25.6	-0.6	29.4	26	21.7	23+	0	0	20.0	72	22	-34	6	17	0	0	0	6.5	6	14.3	NE	29	4	19	8	6.3	70
IDAHO																																
BOISE	865	915.0	1013.4	29.1	13.2	21.1	-1.2	36.1	5+	7.2	24	13	0	4.4	38	12	5	7	4	2	0	0	0.5	36	13.4	SW	17	17	7	7	3.6	73
LEWISTON	431			28.7	13.9	21.3	-0.6	36.7	4	8.3	31	10	0			28	12	15	6		0	0			18.3Y		23	14	6	11	4.5	
POCATELLO	1358	863.5	1013.7	29.1	9.4	19.2	-1.6	35.0	4	1.7	29	7	0	3.9	39	1	-15	1	1	2	0	0	2.8	24	15.2	S	19	16	10	5	3.3	87
ILLINOIS																																
CAIRO J	96			29.9	21.7	25.8	-0.4	33.3	28	16.7	7	8	0			186	97	81	12		0	0			11.6	SW	15					66
CHICAGO O HARE	201	992.6	1016.5	29.1	20.1	24.6	2.9	34.4	21+	13.9	7	8	0	17.8	68	187	118	90	13	9	0	0	0.4	24	10.3	25	11	5	11	15	6.9	
CHICAGO MIDWAY	185	994.9	1017.0	28.9	20.3	24.7	1.5	34.4	11	15.6	7	9	0	18.3	71	140	60	40	14	9	0	0	0.5	18	10.3	N	5	5	10	16	6.8	63
MOLINE	177	995.3	1016.6	29.3	18.5	23.9	1.2	36.7	12	8.9	7	8	0	17.8	72	82	-4	29	14	9	0	0	0.9	17	13.9	NW	11	8	9	14	6.0	59
PEORIA	199	993.6	1017.1	28.7	18.7	23.7	0.7	33.3	24+	10.6	7	5	0	18.9	78	143	65	41	12	9	0	0	0.8	16	14.3	W	11	9	6	16	6.3	61
ROCKFORD	221	990.5	1017.0	28.2	17.4	22.8	0.9	33.9	21+	11.1	8	6	0	16.1	69	104	11	31	12	9	0	0	0.5	16	13.9	26	13	6	8	17	6.9	
SPRINGFIELD	179	994.9	1016.9	30.2	19.3	24.8	1.2	35.6	23	10.6	7	10	0	19.4	77	85	15	55	11	6	0	0	1.3	18	15.6	NW	5	9	9	13	5.9	55
INDIANA																																
EVANSVILLE	116	1004.1	1017.7	29.8	20.5	25.2	0.6	33.3	26+	14.4	8+	9	0	20.6	78	139	64	44	12	7	0	0	0.8	22	9.8	W	29	8	9	14	6.4	64
FORT WAYNE	241	988.2	1017.7	27.8	17.7	22.8	0.9	32.8	1	8.3	8	1	0	17.8	78	195	122	49	13	11	0	0	1.0	22	11.6	E	22	3	9	19	7.3	74

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation ground	Pressure: Station	Pressure: Sea level	Temperature: Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	No of days: Max 32.2 °C or above	No of days: Min 0 °C or lower	Average dew point	Average relative humidity	Precipitation: Total	Departure from normal	Greatest in 24 hours	No of days: 25 mm or more	No of days: With thunderstorms	Snow, Ice pellets: Total	Snow, Ice pellets: Maximum depth on ground	Wind: Resultant speed	Resultant direction	Fastest mile (1.6 kilometers): Speed	Direction	Date	No. of days (sunrise to sunset): Clear 0-3	Partly cloudy 4-7	Cloudy 8-10	Sky cover tenths (sunrise to sunset)	Possible sunshine
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
INDIANA																																
INDIANAPOLIS	241	988.2	1017.7	29.4	19.6	24.5	1.6	32.8	23	13.3	7	4	0	20.6	83	119	48	25	13	10	0	0	1.0	23	15.1	[illegible]	17	6	9	16	6.4	67
SOUTH BEND	234	989.2	1016.7	27.9	18.2	23.1	1.4	33.3	1	10.0	7	4	0	18.9	81	192	109	43	17	10	0	0	1.1	22	11.2	34	2	4	9	18	7.0	
IOWA																																
BURLINGTON	211			28.9	18.6	23.7	0.4	37.8	12	12.8	7	8	0	18.9	78	173	87	56	7	6	0	0	1.8	17	11.2	33	5	9	11	11	5.6	
DES MOINES	284	981.7	1015.8	30.8	19.2	25.1	2.1	37.2	23+	13.3	26	13	0	16.7	64	247	163	157	13	13	0	0	1.7	15	18.3	[illegible]	26	5	13	13	5.4	58
DUBUQUE	322	978.7		26.9	16.5	21.7	0.4	32.2	4+	10.0	7	2	0			189	87	76	6		0	0										
SIOUX CITY	334	975.6	1014.7	29.3	18.6	23.9	0.9	34.4	27	12.8	26	6	0	18.3	73	114	41	37	11	12	0	0	2.1	12	17.9	36	24	12	13	6	6.6	70
WATERLOO	265	985.1	1016.5	28.6	16.9	22.7	1.2	33.9	4	10.6	26	7	0	15.6	68	115	46	36	12	11	0	0	1.3	16	17.4	29	12	4	17	10	6.6	
KANSAS																																
CONCORDIA	448	962.1	1013.4	33.6	19.9	26.8	1.7	39.4	11	11.7	26	22	0	16.7	57	71	-9	46	7	9	0	0	3.2	15	14.8	32	3	15	9	7	3.6	67
DODGE CITY	787	924.8	1013.1	35.3	19.4	27.4	1.8	39.4	31	15.6	26	25	0	14.4	51	34	-33	19	5	7	0	0	3.7	17	15.6	5	7	20	7	4	3.1	68
GOODLAND	1124	884.4	1012.5	32.8	15.8	24.3	0.9	38.3	7+	12.8	9	20	0	11.7	53	8	-45	6	4	8	0	0	2.1	17	11.2	16	27+	18	10	3	3.3	
TOPEKA	267	984.1	1015.5	33.1	19.5	26.3	1.2	38.3	21	12.2	4+	24	0	18.3	66	43	-63	24	5	8	0	0	2.0	6	12.1	5	4	14	8	9	4.8	64
WICHITA	403	967.6	1014.2	34.8	20.1	27.4	0.9	38.9	11+	15.0	4	25	0	17.2	59	70	-8	33	6	5	0	0	3.2	15	16.5	5	13	19	6	6	3.5	73
KENTUCKY																																
COVINGTON	265	987.1	1018.0	30.8	19.0	24.9	1.4	34.4	17+	13.3	8	13	0	19.4	77	50	-17	23	12	11	0	0	1.3	23	[illegible]	36	1	5	11	15	6.5	
LEXINGTON	294			30.2	20.4	25.3	1.4	32.8	25+	14.4	7	8	0			101	14	46	10	9	0	0			8.9	34	6	5	12	13	6.4	
LOUISVILLE	148	1000.0	1017.2	31.2	21.3	26.3	1.9	34.4	25+	15.6	8+	15	0	21.1	77	99	23	21	10	8	0	0	1.1	21	14.3	5	12	7	11	13	6.3	55
LOUISIANA																																
ALEXANDRIA	28	1012.9	1017.1	33.8	21.9	27.8	0.8	36.7	19+	18.9	31	26	0	22.2	79	108	22	35	11	13	0	0	0.6	17	10.3	11	25	13	10	8	6.1	
BATON ROUGE	20	1014.9	1017.7	31.9	22.6	27.2	-0.3	34.4	29+	20.0	8	20	0	21.1	77	297	178	67	18	15	0	0	0.5	12	16.5	31	7	3	17	11	6.2	
LAKE CHARLES	3	1015.9	1015.9	31.7	22.6	27.2	-0.7	35.0	21	20.6	8	16	0	23.3	65	131	10	30	13	22	0	0	1.0	12	11.2	7	26	6	13	12	6.2	
NEW ORLEANS	1	1016.5	1017.3	31.4	22.4	26.9	-0.8	33.9	28+	20.6	11+	17	0	23.3	86	257	123	122	17	14	0	0	0.6	17	10.3	27	2+	4	19	8	6.3	47
SHREVEPORT	77	1007.5	1016.6	33.3	20.8	27.1	-1.4	35.0	29+	18.3	11	25	0	21.7	76	42	-26	28	5	7	0	0	1.0	18	9.4	15	25	9	14	8	5.4	77
MAINE																																
CARIBOU	190	992.2		24.1	11.9	18.0	1.2	35.0	2	2.8	24	2	0			38	-61	12	9		0	0						10	7	14	5.6	
PORTLAND	13	1013.9	1016.1	25.1	13.6	19.3	0.2	39.4	2	7.2	31+	2	0	15.0	80	95	33	47	10	2	0	0	0.8	32	13.4	[illegible]	22	6	12	11	6.3	62
MARYLAND																																
BALTIMORE	48	1012.5	1018.0	30.9	20.1	25.5	1.7	37.2	26	13.9	8	9	0	17.4	73	107	1	54	9	5	0	0	1.2	24	15.5	[illegible]	13	9	8	14	6.0	59
MASSACHUSETTS																																
BLUE HILL OBS D	192			25.4	16.0	20.7	-0.1	38.3	2	8.3	31	2	0			196	99	61	11		0	0			15.2	[illegible]	7					54
BOSTON	5	1015.6	1016.4	26.9	18.6	22.7	0.9	38.9	2	11.7	31	4	0	15.6	67	140	52	58	10	1	0	0	1.0	24	14.8	[illegible]	22	12	8	11	6.6	72
WORCESTER	301	980.4		24.4	15.0	19.7	-0.3	35.6	2	7.8	31	3	0			117	10	44	9	0	0	0	1.9	32	9.4	29	21	5	14	12	6.6	
MICHIGAN																																
ALPENA	210	992.6	1017.5	25.0	12.4	18.7	0.8	33.9	1	6.7	19	1	0	12.8	68	146	78	40	11	7	0	0	0.5	24	9.4	[illegible]	25	8	12	11	5.9	59
DETROIT CITY	189			28.1	19.3	23.7	1.6	36.1	1	12.2	7	3	0	17.2	69					10			0.2	22	13.0	2	11					
DETROIT METRO	193	993.2	1017.8	27.7	17.1	22.4	0.8	35.0	1	10.0	8	1	0	16.7	73	199	116	78	15	8	0	0	0.6	23	14.3	[illegible]	25	6	10	15	6.7	53
FLINT	238	987.5	1017.8	26.1	15.9	21.1	0.9	33.3	1	9.4	7	1	0	16.1	74	280	194	142	16	9	0	0	0.7	26	15.6	32	13	5	7	19	7.3	
GRAND RAPIDS	233	988.5	1017.1	27.2	15.6	21.4	0.3	33.9	1	8.3	7	1	0	16.1	74	187	123	43	13	10	0	0	0.4	21	14.5	[illegible]	21	7	5	19	6.9	49
HOUGHTON LAKE	350	974.3	1017.8	24.3	12.4	18.3	0.1	33.3	1	4.4	7	1	0	14.4	77	182	123	61	12	6	0	0	0.2	27	9.4	13	24	5	12	14	6.7	
LANSING	256	985.8	1017.2	27.1	14.7	20.9	0.1	36.1	1	6.7	7	1	0	17.2	80	249	178	95	14	9	0	0	0.6	21	12.1	[illegible]	21	7	9	15	6.6	46
MARQUETTE	214			23.5	15.3	19.5	0.9	35.6	1	11.1	19+	1	0			78	-1	26	9						15.2	32	8	12	9	11	6.3	53
MUSKEGON	191	994.6	1017.2	25.2	16.3	21.2	0.7	33.3	1	9.4	7	1	0	16.7	76	251	144	84	14	9	0	0	0.5	18	9.8	25	15+	5	10	15	6.6	
SAULT STE MARIE	220	990.5	1016.8	24.6	11.3	17.9	0.5	35.0	1	4.4	20	1	0	13.9	78	32	-44	9	10	3	0	0	[illegible]	28	13.4	[illegible]	13	9	12	10	6.6	67
MINNESOTA																																
DULUTH	438	965.5	1016.6	21.8	11.4	16.7	-1.2	30.6	1	3.3	18	0	0	11.7	76	64	-32	15	11	12	0	0	2.6	17	11.9	[illegible]	14	10	12	9	6.6	67
INTERNATIONAL FALLS	353	970.4	1015.0	23.3	10.2	16.8	-0.6	31.1	24+	2.8	18	0	0	11.7	74	88	-1	31	12	7	0	0	1.6	26	11.3	19	6	5	15	11	6.8	
MINNEAPOLIS-ST PAUL	254	986.0	1016.0	27.3	16.9	22.1	0.8	32.8	23+	10.0	27	3	0	15.0	67	128	47	56	14	11	0	0	1.9	5	12.5	[illegible]	3	18	10	11	6.4	62
ROCHESTER	394	964.5	1016.0	27.7	15.4	21.5	1.2	30.2	23+	10.6	27+	2	0	15.0	70	152	60	45	12	7	0	0	1.6	18	13.0	17	24	6	10	15	6.3	
SAINT CLOUD	313	[illegible]	1016.3	27.1	12.4	19.8	[illegible]	34.4	4	3.3	18	4	0			123	34	63	11		0							4	9	17	5.5	
MISSISSIPPI																																
JACKSON	94	1005.8	1017.0	33.9	21.6	27.8	-0.3	33.9	20+	20.0	8	20	0	22.8	85	158	67	78	16	17	0	0	1.1	17	15.1	5	24	6	15	7	6.7	42

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure		Temperature											Average relative humidity	Precipitation							Wind						No. of days (sunrise to sunset)			Sky cover, tenths (sunrise to sunset)	Possible sunshine
		Station ☉	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days: Max 32.2 °C or above	No. of days: Min 0 C or lower	Average dew point		Total	Departure from normal	Greatest in 24 hours	No. of days: 25 mm or more	No. of days: With thunderstorms	Snow, Ice pellets: Total	Snow, Ice pellets: Maximum depth on ground	Resultant speed	Resultant direction	Fastest mile (1.6 kilometers): Speed	Fastest mile (1.6 kilometers): Direction	Fastest mile (1.6 kilometers): Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10		
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m s		m s							%
MISSISSIPPI																																
MERIDIAN	88	1007.1	1018.0	32.6	22.0	27.3	0.2	34.4	27+	18.9	8	23	0	22.2	78	97	-2	26	15	13	0	0	0.8	18	8.0	35	18	5	18	8	5.8	
MISSOURI																																
COLUMBIA REGIONAL	270	985.1	1016.9	30.2	18.3	24.3	-0.2	37.2	11	12.8	7	11	0	15.6	63	209	127	101	8	9	0	0	1.1	16	14.3	NW	25	10	12	9	5.5	71
KANSAS CITY	309	979.3	1015.1	32.7	20.4	26.6	1.3	39.4	11	16.7	18+	18	0	18.3	66	123	26	99	5	5	0	0	2.1	16	13.0	S	24	18	6	7	4.0	75
ST JOSEPH	247															28	-78		6													
ST LOUIS	163	997.3	1017.2	30.8	20.2	25.5	0.4	38.3	12	13.9	8+	10	0	21.1	80	138	65	44	11	8	0	0	1.1	18	18.3	NW	25	14	6	11	5.1	66
SPRINGFIELD	386	972.2	1016.7	31.2	18.2	24.7	-0.3	35.6	12+	12.2	9	11	0	18.3	74	65	-9	31	10	9	0	0	2.0	17	11.2	NE	30+	14	7	10	4.6	71
MONTANA																																
BILLINGS	1087	892.0	1013.7	27.7	12.1	19.9	-1.3	35.6	6	7.2	26	6	0	5.0	42	9	-16	5	8	4	0	0	1.1	31	21.0	NW	7	15	7	9	4.5	78
GLASGOW	696	933.0	1013.7	25.9	10.6	18.3	-2.3	35.6	6	5.6	26	2	0	9.3	59	35	-4	12	13	9	0	0	0.6	4	19.7	27	7	13	10	8	5.0	
GREAT FALLS	1116	888.9	1014.2	25.3	11.1	18.2	-1.4	35.0	5	6.7	24	2	0	6.7	53	54	26	16	11	5	0	0	2.5	24	15.6	SW	28	9	12	10	5.7	77
HAVRE	788	922.5		25.7	11.2	18.4	-1.6	33.9	6	6.7	9	3	0			79	52	[illegible]	12	7	0	0			24.1	SW	21	9	13	9	5.5	77
HELENA	1167	881.8	1015.6	23.4	9.1	16.2	-2.8	31.1	6	2.8	29	0	0	7.2	59	63	38	19	12	6	0	0	1.8	29	17.0	NW	22	8	14	9	5.2	70
KALISPELL	904	912.0	1015.5	23.6	9.2	16.4	-0.6	32.8	5	1.7	9	1	0	7.8	61	71	38	20	9	7	0	0	0.5	20	11.6	23	27	7	10	14	6.3	
MILES CITY	801	921.4	1012.8	28.7	12.9	20.8	-1.7	35.6	6	7.2	25	7	0	8.9	52	17	-13		9	5	0		0.9	1								
MISSOULA	972	904.9	1015.4	25.2	8.2	16.7	-1.6	33.9	5	1.7	29	3	0	7.8	63	52	24	12	12	4	0	0	0.9	30	14.8	SE	27	11	10	10	5.2	63
NEBRASKA																																
GRAND ISLAND	561	948.9	1013.5	32.2	17.9	25.1	1.2	38.3	31+	10.6	26	17	0	16.1	61	30	-35	15	7	5	0	0	2.6	16	11.6	18	7	20	7	4	3.1	
LINCOLN	359	972.2	1013.9	33.1	19.7	26.4	2.2	37.8	2+	9.4	26	19	0	17.8	67	35	-48	23	8	8	0	0	2.6	16	17.9	NW	12	13	14	4	3.9	81
NORFOLK	471			30.9	18.2	24.6	1.4	36.7	23	12.2	26	14	0			69	1	39	10		0	0						16	9	6	4.1	
NORTH PLATTE	846	917.7	1013.5	31.4	14.4	22.9	0.1	37.2	31	8.9	26	15	0	13.3	60	4	-46	6	2	5	0	0	1.4	13	13.0	NE	12+	19	8	4	3.5	79
OMAHA	298	979.7	1014.1	33.3	19.7	26.5	2.3	39.4	17	10.6	26	20	0	18.3	65	44	-55	17	8	9	0	0	2.2	16	17.9	NW	12	14	13	4	4.2	73
SCOTTSBLUFF	1206	880.1	1013.1	31.6	13.1	22.3	0.3	39.4	7	6.1	25	17	0	5.9	57	12	-12	7	6	8	0	0	0.9	8	16.1	29	24	16	9	6	3.9	
VALENTINE	789			30.8	15.1	23.0	0.5	38.9	31	8.3	25	12	0			44	-16	33	8		0	0			17.0	S	27+	15	13	3	3.8	82
NEVADA																																
ELKO	1539	845.9	1014.3	28.8	6.8	17.8	-1.6	35.6	4	0.6	29	7	0	-1.1	31	3	-13	3	1	1	0	0	0.8	24	13.0	16	21	17	7	7	3.3	
ELY	1906	811.4	1012.8	28.4	6.7	17.6	-1.1	33.9	9+	1.7	29	6	0	[illegible]	34	13	-1	10	4	5	0	0	3.6	20	14.3	SW	19	19	6	6	3.4	90
LAS VEGAS	659	936.0	1010.2	38.6	23.1	30.8	0.1	43.3	8	17.8	21	30	0	[illegible]	16	2	-11	2	1	2	0	0	2.8	22	17.4	SW	20	26	3	2	1.6	94
RENO	1342	866.9	1014.3	30.0	6.4	18.2	-1.2	37.2	3	1.7	31+	13	0	3.9	44	24	21	13	5	5	0	0	1.3	26	13.4	NW	23	18	8	5	3.1	98
WINNEMUCCA	1311	868.9	1013.4	30.4	8.6	19.5	-0.4	37.8	4	2.8	30+	14	0	0.6	33	20	13	19	5	4	0	0	1.0	25	13.4	W	17	17	7	7	3.7	79
NEW HAMPSHIRE																																
CONCORD	104	1004.4	1016.6	26.3	12.0	19.2	-0.4	38.3	[illegible]	1.7	21	4	0	13.9	75	100	27	52	9	0	0	0	0.8	33	10.7	NW	22	8	12	11	6.1	60
MT WASHINGTON OBS	1909			12.4	5.7	9.1	0.7	22.2	[illegible]	-1.1	31+	0	4			165	-18	40	16	2	0	0			37.6Y	W	22	1	9	21	8.1	32
NEW JERSEY																																
ATLANTIC CITY	20	1015.2	1017.5	28.2	18.2	23.2	0.2	36.1	2	10.6	29	6	0	18.9	79	127	3	66	9	5	0	0	0.9	28	10.3	34	13	5	14	12	6.6	67
ATLANTIC CITY	3			27.6	20.1	23.8	0.7	35.0	2	15.0	8	4	0			52	-64	21	8						10.7	NE	31					
NEWARK	2	1015.9	1017.0	28.3	19.6	23.9	0.3	36.7	2	15.6	31+	5	0	16.7	65	111	2	65	11	3	0	0	1.2	31	9.8	1	6	5	11	15	6.9	
TRENTON U	17			28.8	19.2	24.0	0.7	36.7	3+	15.0	31+	6	0			39	-67	14	10		0	0			15.2	NW	13	7	14	10	6.1	52
NEW MEXICO																																
ALBUQUERQUE	1619	841.2	1013.4	32.4	16.5	24.5	-0.3	36.1	8+	11.7	25	21	0	8.3	47	36	2	17	8	6	0	0	0.1	10	19.7	E	12	16	12	3	3.5	61
CLAYTON	1518			30.8	14.0	22.9	0.4	35.0	24	11.7	26	12	0			52	-15	19	8		0	0						22	4	5	2.6	
ROSWELL	1112	891.3	1012.6	33.1	18.3	25.7	0.2	36.7	1	14.4	26	23	0	14.4	53	33	-5	18	7	8	0	0	1.4	17	14.8	SE	20	14	14	3	3.8	73
NEW YORK																																
ALBANY	84	1006.8	1017.2	27.2	14.9	21.1	0.2	36.1	3+	6.7	21	4	0	15.6	73	152	79	48	13	3	0	0	1.0	24	11.6	NW	22	5	14	12	6.7	56
BINGHAMTON	485	960.7	1018.8	24.5	14.8	19.7	0.1	31.1	3+	9.4	23	0	0	15.6	80	138	44	46	12	8	0	0	1.2	27	17.0	W	26	5	10	16	6.7	60
BUFFALO	215	992.6	1017.8	25.8	16.1	20.9	0.7	33.3	3+	9.4	23+	2	0	15.0	71	216	126	91	13	10	0	0	1.6	22	13.0	SW	21	4	6	21	7.4	52
NEW YORK C	40	1014.2	1017.3	28.0	19.1	23.6	-0.3	36.7	2	13.9	31	4	0	16.1	68	77	-24	36	12	5	0	0	1.2	1	6.7	NE	31+					67
NEW YORK KENNEDY	4	1016.5	1017.2	27.6	19.6	23.6	0.4	36.7	2	14.4	31+	5	0	18.3	74	90	-19	65	8	4	0	0	0.9	29	10.3	2	30	4	14	13	6.6	
NEW YORK LA GUARDIA	3	1016.3	1017.2	27.0	19.7	23.4	-0.4	35.6	2	14.4	31	3	0	16.7	67	91	-22	45	12	5	0	0	1.2	33	13.0	NE	30	5	12	14	6.7	
ROCHESTER	167	997.3	1017.3	26.6	15.6	21.1	0.4	35.0	1	8.3	23	4	0	15.6	72	59	-17	19	13	7	0	0	1.7	25	14.8	SW	13	6	5	20	7.1	52
SYRACUSE	128	1002.7	1017.3	25.9	14.3	20.1	-0.8	33.3	2+	7.8	23+	3	0	16.1	78	136	47	51	11	5	0	0	1.0	27	13.0	W	13	5	10	16	6.7	55
NORTH CAROLINA																																
ASHEVILLE	652	945.1	1020.3	28.6	16.3	22.7	0.1	31.7	25+	13.9	30+	0	0	18.9	86	92	-22	31	12	10	0	0	0.3	2	10.3	35	17	5	17	9	5.9	52

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure: Station	Pressure: Sea level	Temperature: Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days: Max 32.2 °C or above	No. of days: Min 0 °C or lower	Average dew point	Average relative humidity	Precipitation: Total	Departure from normal	Greatest in 24 hours	No. of days: 25 mm or more	No. of days: With thunderstorms	Snow, Ice pellets: Total	Snow, Ice pellets: Maximum depth on ground	Wind: Resultant speed	Resultant direction	Fastest mile (1.6 kilometers): Speed	Direction	Date	No. of days (sunrise to sunset): Clear 0-3	Partly cloudy 4-7	Cloudy 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
NORTH CAROLINA																																
CAPE HATTERAS R	2	1018.0	1018.4	30.5	[illegible]	25.8	1.5	33.3	26+	17.8	31+	5	0	22.8	79	49	-123	37	5	3	0	0	0.9	24	8.0	5	27	9	5	17	6.4	61
CHARLOTTE	224	991.9	1018.7	31.4	20.7	26.1	0.7	35.6	25	17.2	9	14	0	20.6	74	114	13	76	5	3	0	0	0.6	22	12.1	[illegible]	17	14	11	6	4.4	60
GREENSBORO	273	987.5	1018.7	32.4	20.8	26.7	2.2	36.7	26	17.2	29+	21	0	21.6	74	39	-72	13	7	6	0	0	0.9	[illegible]	10.3	[illegible]	12	9	17	5	5.3	72
RALEIGH	132	1002.7	1018.2	31.8	19.6	25.7	1.0	34.1	25	16.1	29+	15	0	18.9	71	54	-72	24	7	8	0	0	0.9	22	7.6	24	31	10	16	5	5.1	73
WILMINGTON	9	1017.3	1018.7	33.2	22.8	28.0	1.6	36.7	17	17.2	30	20	0	22.8	76	115	-58	84	12	9	0	0	0.9	23	13.0	[illegible]	18+	8	11	12	5.9	[illegible]
NORTH DAKOTA																																
BISMARCK	502	955.[illegible]	1013.6	26.6	12.1	19.3	-1.3	33.9	7	5.0	26	1	0	10.6	60	14	-34	6	7	8	0	0	0.3	15	17.9	[illegible]	7	12	9	10	5.1	64
FARGO	273	982.4	1014.7	26.3	13.8	20.1	-0.6	32.2	24	6.7	18	1	0	12.2	64	74	1	30	10	7	0	0	1.2	18	15.6	5	7	14	11	7	4.7	71
WILLISTON	579	946.2	1013.4	25.8	11.1	18.5	-1.8	33.9	5	4.4	26	2	0	9.4	67	38	-2	20	6	4	0	0	0.5	3	13.9	[illegible]	7	12	7	12	5.5	75
OHIO																																
AKRON	368	974.6	1018.4	28.1	17.7	22.9	1.6	33.3	2	9.4	8	4	0	18.3	79	190	119	76	11	9	0	0	0.8	22	13.4	29	26	5	9	14	6.4	
CINCINNATI ABBE OB	232			31.5	20.4	26.0	2.1	35.6	13	14.4	8	17	0			93	17	35	9						7.6	SW	3					57
CLEVELAND	237	989.2	1017.4	27.2	17.6	22.4	1.3	35.0	2	8.3	8	3	0	17.8	77	228	151	54	14	12	0	0	0.8	21	14.3	SW	29	7	7	17	6.5	53
COLUMBUS	247	988.5	1018.[illegible]	30.5	19.8	25.1	3.0	35.6	2+	13.3	7	10	0	20.0	78	115	42	24	14	8	0	0	0.7	[illegible]	14.3	[illegible]	3	7	8	16	6.7	35
DAYTON	302	982.4	1017.4	29.1	18.2	23.6	0.8	33.3	24	12.8	5+	4	0	19.3	77	121	56	26	14	9	0	0	1.0	22	11.2	[illegible]	3+	8	9	14	6.3	52
MANSFIELD	395			27.3	17.7	22.6	0.3	32.8	2+	8.9	8	2	0	17.8	77	143	74	37	16	10	0	0	1.2	22	13.0	[illegible]	13	8	5	18	6.6	
TOLEDO	204	992.6	1017.4	27.8	16.6	22.2	0.7	33.9	1	7.2	8	1	0	18.3	83	140	62	42	15	9	0	0	0.7	23	12.5	[illegible]	21	4	12	15	6.8	42
YOUNGSTOWN	355	974.3	1018.2	27.1	16.8	21.8	1.1	33.9	2+	7.2	8	2	0	16.7	75	156	72	35	14	9	0	0	0.5	19	14.8	24	26	6	8	17	7.1	
OKLAHOMA																																
OKLAHOMA CITY	392	970.2	1015.3	32.6	20.9	26.7	-0.6	35.6	31	17.2	5	22	0	19.4	64	18	-50	12	4	6	0	0	2.5	17	10.3	SW	29+	19	8	4	3.9	74
TULSA	198	991.5	1015.3	33.9	21.8	27.9	0.4	38.3	13	17.8	4	24	0	20.6	67	85	14	31	9	8	0	0	2.9	18	13.0	S	26+	18	9	4	3.7	71
OREGON																																
ASTORIA	2	1018.3	1018.9	18.9	11.9	15.4	-0.3	22.8	[illegible]	6.7	9	0	0	11.1	[illegible]	72	35	28	13	0	0	0	1.8	25	11.2	15	7	5	7	19	7.5	
BURNS	1265			26.3	8.7	17.5	-1.4	32.8	4	1.1	31+	1	0			5	-5	3	3		0	0			18.3V		5	17	10	4	3.3	
EUGENE	109	1004.4		25.2	10.8	18.1	-0.9	31.7	4+	6.7	24+	0	0			53	38	21	10	0	0	0	1.0	32	10.3	35	11	12	7	12	5.4	
MEDFORD	396	969.5	1016.6	29.8	10.6	20.2	-1.1	35.6	3	5.0	31	12	0	7.8	51	14	5	11	4	0	0	0	1.4	32	8.0	29	27	19	5	7	3.5	
PENDLETON	452	962.1	1015.[illegible]	29.1	13.0	21.2	-0.8	37.2	4	9.4	31	8	0	6.7	44	17	5	8	8	1	0	0	2.0	27	16.[illegible]	27	23	16	9	6	3.9	
PORTLAND	6	1016.6	1017.4	24.1	12.9	18.5	-0.7	30.6	13+	8.9	25+	0	0	10.6	65	53	33	19	9	0	0	0	1.8	31	11.2	SW	26+	7	13	11	6.2	55
SALEM	60	1010.5	1017.9	24.7	9.8	17.3	-1.7	31.7	4	4.4	24	0	0	10.6	70	50	35	12	9	0	0	0	0.7	[illegible]	8.9	18	29+	12	7	12	5.3	
SEXTON SUMMIT R	1169	885.9	1016.[illegible]	21.6	9.8	15.7	-1.6	27.2	26+	4.4	7	0	0			20	9	14	5		0	0			13.4		11	18	3	10	3.6	
PACIFIC AREA																																
GUAM TAGUAC R	110			28.9	22.0	25.6	-0.6	30.6	29+	20.6	28+	0	0			579	264	84	27		0	0			9.4	E	30	0	3	28	9.3	45
JOHNSTON	2	1013.9	1014.5	28.4	24.9	26.7	-0.6	28.9	31+	23.3	31+	0	0	21.7	74	8	-57	6	6	0	0	0	7.2	9	12.5	E	15+	4	15	12	6.3	83
KOROR R	29	1005.4		30.9	24.2	27.6	0.2	32.8	21	22.8	13+	6	0			210	-181	90	21	3	0	0	0.8	17	12.5	SE	30+	0	3	28	9.2	52
KWAJALEIN	2	1009.5		29.7	24.5	27.1	-0.9	30.6	26+	23.3	30+	0	0			285	26	100	27	2	0	0	4.0	8	[illegible]	13	21	1	4	26	8.5	
MAJURO	3	1010.2		29.1	24.1	26.6	-0.9	30.[illegible]	30+	22.2	10	0	0			415	116	74	29		0	0	3.1	9	11.2	E	11+	0	6	25	9.[illegible]	39
PAGO PAGO	4	1013.2	1013.6	28.9	23.6	26.3	0.6	30.[illegible]	28+	19.4	4	0	0	22.2	79	75	-113	19	20	0	0	0	5.4	9	14.3	E	31	5	18	8	5.9	69
PONAPE R	37			30.9	22.6	26.8	0.1	32.2	28+	21.1	26+	7	0			286	-138	49	24	0	0	0			8.5	NE	30	1	6	24	8.6	41
TRUK MOEN ISLAND	2	1009.5		30.6	24.0	27.3	0.1	31.7	28+	22.2	19+	0	0			348	7	84	26	2	0	0	1.8	6	9.6	NE	15	0	2	29	9.7	52
WAKE	3	1013.2	1013.6	31.4	24.3	27.9	-0.2	32.8	17+	22.2	12	9	0	22.2	74	114	-47	32	20	1	0	0	4.5	9	13.4	E	8	8	13	10	6.1	67
YAP R	17	1006.8		30.1	22.8	26.4	-0.8	31.7	29+	19.4	3	0	0			302	-82	53	23	3	0	0	0.6	17	[illegible]	SW	1	1	4	26	9.[illegible]	56
PENNSYLVANIA																																
ALLENTOWN	118	1004.1	1017.6	27.6	17.3	22.5	0.4	35.0	2	12.2	23	3	0	15.6	67	107	1	24	11	7	0	0	0.8	29	14.3	32	13	6	11	14	6.5	
ERIE	223	991.9	1018.2	25.2	16.3	20.8	1.1	32.2	3	9.4	7	1	0	17.2	82	227	142	84	17	11	0	0	1.3	[illegible]	[illegible]	15	31	7	7	17	6.8	
HARRISBURG	[illegible]	[illegible]	1018.4	29.7	19.4	24.6	1.3	36.1	25	12.8	8	9	0	19.4	78	46	-35	12	9	4	0	0	0.9	[illegible]	17.4	[illegible]	13	5	9	14	6.3	63
PHILADELPHIA	9	1016.3	1017.4	30.1	19.9	25.1	1.3	37.2	2	14.4	8	9	0	18.3	69	56	-48	19	7	3	0	0	0.8	28	17.[illegible]	[illegible]	13	8	12	11	5.7	65
PITTSBURGH	347	975.3	1018.6	28.1	17.4	22.8	1.6	35.6	2+	10.0	8	2	0	15.6	67	192	112	47	12	9	0	0	0.8	[illegible]	16.5	[illegible]	13	10	6	15	6.2	39
SCRANTON	293	984.4	1017.9	27.0	16.8	21.8	0.7	34.4	3+	11.1	23	5	0	16.1	74	71	-11	28	14	5	0	0	0.3	24	[illegible]	NW	16	7	11	13	6.4	52
WILLIAMSPORT	160	989.3	1018.[illegible]	26.8	16.4	21.6	0.0	34.4	2	10.6	23	4	0	16.7	79	113	25	34	10	7	0	0	1.0	3	14.3	32	13	4	13	14	6.8	
RHODE ISLAND																																
BLOCK ISLAND	34			25.0	18.6	21.8	1.2	32.8	[illegible]	12.2	31	2	0			112	13	56	6		0	0										
PROVIDENCE	18	1014.2	1016.5	26.9	16.8	21.9	0.6	40.[illegible]	[illegible]	10.0	31	3	0	15.6	69	54	-43	25	[illegible]	1	0	0	1.3	33	9.0	2	22	7	10	14	6.5	53
SOUTH CAROLINA																																
CHARLESTON	12	1017.3	1019.1	32.3	22.7	27.5	1.1	35.[illegible]	25	20.6	30	19	0	22.2	77	182	19	87	10	9	0	0	1.1	[illegible]	9.4	3	19	13	12	6	4.8	81

Clemson University Library

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure		Temperature											Average relative humidity	Precipitation							Wind					No. of days (sunrise to sunset)			Sky cover, tenths (sunrise to sunset)	Possible sunshine
		Station	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days: Max 32.2 °C or above	No. of days: Min 0 C or lower	Average dew point		Total	Departure from normal	Greatest in 24 hours	No. of days: 25 mm or more	No. of days: With thunderstorms	Snow, Ice pellets: Total	Snow, Ice pellets: Maximum depth on ground	Resultant speed	Resultant direction	Fastest mile (1.6 kilometers): Speed	Fastest mile: Direction	Fastest mile: Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10		
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m s		m s							%
SOUTH CAROLINA																																
CHARLESTON J	3			32.5	24.3	28.4	1.3	35.6	18+	21.7	28	19	0			109	-44	47	8		0	0			13.9	NE	28					
COLUMBIA	69	1010.5	1016.5	33.2	20.7	26.9	0.2	37.8	25	16.7	30	23	0	20.6	74	80	-63	42	7	8	0	0	0.6	22	12.5	5	27	13	11	7	4.5	84
GRNV LE-SPRTNBRG	292	984.8	1018.6	31.7	20.1	25.9	0.6	36.7	25	17.2	30	11	0	20.0	75	82	-22	38	7	4	0	0	0.4	24	12.1	NE	27	15	10	6	4.4	70
SOUTH DAKOTA																																
ABERDEEN	398	967.8	1013.8	29.8	15.0	22.4	0.9	37.2	3	6.7	13	12	0	13.9	62	38	-15	17	4	6	0	0	0.9	11	13.9	17	27	12	9	10	5.1	
HURON	390	967.5	1013.2	30.4	15.8	23.1	0.8	37.8	24	9.4	13	13	0	14.4	63	64	13	21	13	10	0	0	1.9	13	18.8	NW	27	13	8	10	4.9	76
RAPID CITY	964	905.2	1013.9	29.9	12.7	21.3	-0.7	40.6	7	6.1	25	10	0	8.3	49	22	-15	12	6	3	0	0	0.2	4	19.2	NW	7	12	15	4	4.3	83
SIOUX FALLS	432	964.4	1015.1	28.6	16.7	22.6	0.5	34.4	3	11.1	25	6	0	16.1	69	231	159	117	10	12	0	0	1.5	15	15.6	7	11	13	8	10	4.8	
TENNESSEE																																
BRISTOL	459	966.1	1019.3	30.1	18.9	24.5	1.1	33.9	2	16.1	30+	8	0	20.0	80	98	4	40	11	9	0	0	0.1	28	7.6	33	17+	6	14	11	6.1	
CHATTANOOGA	203	994.2	1018.5	30.7	19.4	25.1	-0.5	33.9	27	16.7	7	11	0	20.6	82	192	110	64	13	11	0	0	0.4	21	13.0	N	27	8	15	8	5.7	51
KNOXVILLE	299	984.8	1019.1	31.4	20.5	26.0	0.8	34.4	26+	18.9	12+	15	0	20.6	78	41	-41	18	8	5	0	0	0.8	25	8.0	6	27	7	12	12	6.0	72
MEMPHIS	79	1007.1	1017.3	31.9	22.7	27.3	0.4	35.0	27	18.9	8	18	0	21.7	74	52	-33	23	9	6	0	0	1.2	17	8.0	4	3	13	9	9	5.0	76
NASHVILLE	180	996.3	1017.7	30.9	21.3	26.2	0.3	33.9	26+	18.9	7	12	0	21.7	79	119	37	45	11	8	0	0	1.4	20	9.4	28	30	10	12	9	5.5	49
OAK RIDGE R	276			30.5	18.4	24.6	0.1	33.9	27	15.6	7	9	0			68	-30	22	9		0	0			14.8Y		3	8	10	13	6.4	
TEXAS																																
ABILENE	544	953.3	1014.7	33.9	20.8	27.4	-1.3	36.7	14	16.7	6+	27	0	17.2	58	63	11	28	4	6	0	0	3.2	17	15.6	NE	26	16	8	7	4.1	78
AMARILLO	1098	893.0	1013.3	31.9	17.8	24.8	-0.5	36.7	24	13.9	11	19	0	14.4	57	101	26	63	5	5	0	0	4.1	19	13.4	14	26	21	8	2	2.5	86
AUSTIN	182	993.9	1015.5	33.2	23.0	28.1	-1.2	35.6	21	21.1	10+	27	0	21.1	72	65	9	39	6	3	0	0	2.2	17	10.7	SE	24+	8	18	5	5.2	72
BROWNSVILLE	6	1014.6	1015.0	32.6	23.4	28.0	-1.1	34.4	25+	20.6	6+	22	0	22.8	77	243	175	127	11	4	0	0	2.9	14	13.4	SE	31	7	12	12	6.2	73
CORPUS CHRISTI	12	1013.9	1015.5	32.8	24.1	28.5	-1.0	37.2	2	21.1	9	23	0	23.9	81	123	42	42	11	8	0	0	3.2	13	18.8	N	4	5	12	14	6.5	64
DALLAS - FORT WORTH	168	994.6	1015.3	35.2	23.4	29.3	-0.1	36.7	21+	21.1	6	30	0	20.0	62	8	-50	4	4	5	0	0	2.1	17	10.7	20	27	14	11	6	4.4	
DEL RIO	313	978.3	1013.6	34.4	22.7	28.6	-1.5	36.7	22	20.0	10+	28	0	19.4	63	7	-24	4	3	3	0	0	3.8	12	9.4	11	25+	10	13	8	5.2	
EL PASO	1194	883.2	1011.7	35.8	18.5	27.2	0.2	40.0	1	14.4	7	30	0	11.7	43	11	-17	7	8	11	0	0	1.2	10	12.1	9	26	13	13	5	4.3	85
GALVESTON	2			31.2	26.7	28.9	0.4	32.8	30+	22.8	4	6	0			167	55	75	11		0	0			11.6	SE	20					52
HOUSTON INTERCON	29	1012.9	1016.4	33.1	21.4	27.3	-1.3	35.0	21+	20.0	9	25	0	22.2	80	148	35	75	10	14	0	0	0.8	13	10.7	4	8	2	18	11	6.4	55
LUBBOCK	992	905.5	1014.3	31.9	18.4	25.3	-0.5	36.7	24	15.0	9	18	0	16.1	60	54	9	38	5	6	0	0	2.7	17	12.5	30	1	16	10	3	3.0	78
MIDLAND	869	917.4	1013.6	32.8	19.3	26.1	-1.6	35.6	25+	16.1	6	24	0	15.7	60	42	4	36	4	3	0	0	3.0	16	15.6	4	25	19	4	8	3.6	
PORT ARTHUR	5	1015.9		32.2	22.4	27.3	-1.1	35.0	20	20.6	9+	17	0			174	30	42	13	17	0	0			14.3	SE	21	1	18	12	6.6	50
SAN ANGELO	580	949.2	1014.4	33.1	20.9	27.0	-2.2	35.0	21	16.7	6	27	0	17.2	59	10	-27	6	4	1	0	0	3.3	18	9.4	18	25	13	12	6	4.4	
SAN ANTONIO	240	988.2	1015.5	32.8	22.4	27.6	-1.7	34.4	21+	19.4	9+	22	0	20.6	70	33	-29	14	4	3	0	0	2.9	15	11.6	SE	30	2	19	10	6.0	67
VICTORIA	32	1011.9	1015.9	33.7	23.9	28.8	-0.3	36.1	20+	21.7	9	26	0	23.3	80	60	-20	35	12	17	0	0	1.9	15	14.8Y	NE	9	0	15	16	7.3	
WACO	153	997.6	1015.4	35.3	23.1	29.2	-0.6	38.3	22+	19.4	7+	30	0	21.1	68	18	-28	8	6	5	0	0	3.1	16	11.2	36	9	10	12	9	5.1	
WICHITA FALLS	303	979.0	1014.3	34.7	21.6	28.2	-1.6	37.2	25+	18.3	6+	27	0	20.0	66	88	43	65	6	6	0	0	2.9	16	13.4	12	27	21	4	6	3.4	
UTAH																																
MILFORD	1533	847.6	1013.6	31.2	10.1	20.7	-1.9	36.1	9+	3.3	30	12	0			19	2	12	5		0	0			16.5	SW	27	21	9	1	2.4	83
SALT LAKE CITY	1286	872.0	1012.9	31.3	14.7	23.0	-0.6	37.8	6	7.2	25	12	0	3.9	32	3	-21	2	2	6	0	0	2.3	15	15.6	S	5	15	13	3	3.4	84
WENDOVER	1291	871.0	1013.2	30.7	17.1	23.9	-0.9	37.8	5	12.8	25+	12	0	0.6	24	3	-6	3	1		0	0	0.1	6								
VERMONT																																
BURLINGTON	101	1004.4	1016.7	26.5	14.7	20.6	0.9	37.2	1	6.1	31	3	0	14.4	70	72	-22	20	13	4	0	0	0.5	19	13.4	5	21	8	10	13	6.2	65
VIRGINIA																																
LYNCHBURG	279	985.4		30.8	18.7	24.7	1.2	33.9	26+	14.4	9	10	0			119	16	48	6		0	0			9.8	W	14	12	12	7	5.0	69
NORFOLK	7	1016.9	1017.9	31.9	20.9	26.4	1.5	35.6	26+	16.1	9	14	0	20.0	71	19	-132	8	5	6	0	0	0.6	24	9.4	3	27	10	16	5	4.6	
RICHMOND	50	1011.5	1018.0	32.1	19.8	26.0	1.4	37.2	26	13.9	9	16	0	20.6	76	59	-70	28	8	9	0	0	0.7	26	14.3	NW	14	6	17	8	5.9	65
ROANOKE	350	977.3	1018.7	30.6	19.3	25.0	1.6	33.9	4+	15.6	9	10	0	18.9	74	144	39	39	10	9	0	0	0.4	30	19.7	30	24	11	12	8	5.4	
WALLOPS ISLAND	3			30.3	21.5	25.9	1.9	33.9	25+	16.1	8	9	0			60	-34	36	9		0	0			17.4Y	WNW	16					
WASHINGTON																																
OLYMPIA	59	1010.2		21.9	9.9	15.9	-1.2	30.[illegible]	13	3.3	9	0	0			101	71	29	11	1	0	0			9.4	25	30+	6	7	18	6.9	
QUILLAYUTE	58	1010.5	1016.1	18.1	10.1	14.1	-0.8	26.7	12	5.0	9	0	0	11.1	87	257	187	79	17	3	0	0	1.1	23	8.0	SE	28	2	3	26	8.5	[illegible]
SEATTLE U	6			21.1	13.2	17.1	-1.2	27.8	4	10.0	9	0	0			71	49	32	11		0	0			19.2Y	WNW	23					
SEATTLE-TACOMA	122	1001.4	1017.7	21.9	12.7	17.3	-0.3	28.9	12+	10.6	9	0	0	10.6	70	117	89	43	11	2	0	0	1.4	22	8.9	S	28+	7	5	19	6.9	44
SPOKANE	718	931.3	1014.[illegible]	24.7	11.0	17.8	-2.2	31.7	15	6.1	31	0	0	6.7	53	24	9	8	8	2	0	0	2.6	21	16.5	SW	23	14	7	10	4.8	69
STAMPEDE PASS R	1208	880.8		13.9	6.2	10.1	-3.1	23.3	14+	2.8	22	0	0			182	122	65	14		0	0										
WALLA WALLA J	289			28.2	14.3	21.3	-1.8	35.6	15	10.0	31	5	0			30	19	11	5		0	0			14.3	SW	23	17	6	8	3.8	75
YAKIMA	321	976.3	1014.4	27.7	10.4	19.1	-1.3	34.4	4	4.4	31	5	0	8.3	53	53	47	37	5	1	0	0	1.4	29	12.5	[illegible]	23	15	10	6	3.9	

CLIMATOLOGICAL DATA
METRIC UNITS

State and Station	Elevation (ground)	Pressure		Temperature											Average relative humidity	Precipitation							Wind					No. of days (sunrise to sunset)			Sky cover, tenths (sunrise to sunset)	Possible sunshine
												No of days							No. of days		Snow Ice pellets				Fastest mile (1.6 kilometers)							
		Station	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min 0 C or lower	Average dew point		Total	Departure from normal	Greatest in 24 hours	25 mm or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10		
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
WEST INDIES																																
SAN JUAN P.R.	4	1013.9	1016.3	30.9	25.4	28.2	0.8	32.2	6	23.9	17	1	0	22.2	70	104	-74	30	19	8	0	0	3.5	8	14.3	E	7	4	19	8	6.0	58
WEST VIRGINIA																																
BECKLEY	763	933.0	1019.0	27.3	16.9	22.2	1.7	31.1	2	11.1	8	0	0	17.8	80	107	11	27	12	9	0	0	1.2	22	8.9	26	16	2	19	10	6.5	
CHARLESTON	284	985.1	1018.5	30.6	19.1	24.8	1.7	35.6	1	11.7	8	6	0	18.9	76	131	37	49	12	9	0	0	0.8	22	9.8	30	16	8	12	11	6.2	
ELKINS	594	949.5		27.3	14.7	21.0	1.3	31.7	2+	7.8	9	0	0			90	-12	31	13		0	0						2	16	13	7.0	
HUNTINGTON	252	988.5	1018.0	31.1	20.4	25.8	2.5	35.0	13	13.3	8	16	0	20.6	78	101	16	44	8	7	0	0	1.1	25	7.6	27	3	1	9	21	7.9	
PARKERSBURG	187			29.4	19.6	24.6	1.3	35.0	2+	12.2	9	7	0			112	27	33	12		0	0			10.7	W	26					59
WISCONSIN																																
GREEN BAY	208	991.5	1016.7	26.1	13.9	20.0	0.2	33.9	1	7.2	7	3	0	14.4	72	230	163	117	12	8	0	0	0.5	25	13.9	SW	8	7	8	16	6.4	47
LA CROSSE	198	992.9	1017.2	28.2	15.9	22.1	0.2	33.3	12+	10.0	27	9	0	16.1	74	71	-6		13	9	0		0.8	15								
MADISON	262	985.8	1016.9	27.6	15.3	21.4	1.1	33.9	23	6.7	7	5	0	15.6	70	133	56	27	18	12	0	0	0.6	19	13.9	SE	1	5	9	17	7.0	47
MILWAUKEE	205	992.2	1017.0	25.9	17.6	21.8	1.1	32.8	12	12.8	27+	2	0	17.2	78	93	31	25	14	5	0	0	0.8	26	15.6	W	21	5	9	17	6.8	56
WYOMING																																
CASPER	1627	839.5	1013.4	29.4	10.4	20.0	-0.9	34.4	7	4.4	26	6	0	2.2	37	3	-11	2	3	4	0	0	3.0	25	15.6	24	23	15	10	6	4.0	
CHEYENNE	1867	814.8	1013.6	27.4	10.7	19.1	-0.7	32.2	10+	2.2	25	2	0	2.2	38	10	-27	6	6	9	0	0	1.8	26	14.3	N	24	13	13	5	4.3	73
LANDER	1496	831.4	1013.6	28.2	10.5	19.3	-1.2	34.4	5	5.0	25	3	0	0.6	32	3	-8	2	2	4	0	0	1.8	24	20.1	SW	7	17	10	4	3.8	79
SHERIDAN	1208	979.4	1014.3	28.4	9.4	18.9	-1.8	35.0	6	3.3	25	7	0			5	-19	2	5	3	0	0	1.1	31	16.1	NW	7	13	14	4	4.3	78

HEATING DEGREE DAYS

(Base 65°F.)

AUGUST 1975

State and Station	Current season		Normals
	This month	Period July through this month	July through this month
ALABAMA			
BIRMINGHAM	0	0	0
HUNTSVILLE	0	0	0
MOBILE	0		0
MONTGOMERY	0	0	0
ALASKA			
ANCHORAGE	252	444	502
ANNETTE	275	547	442
BARROW	931	1781	1664
BARTER ISLAND	877	1680	1884
BETHEL	324	579	713
BETTLES	337	471	637
BIG DELTA	246	494	503
COLD BAY	384	623	887
FAIRBANKS	270	393	452
GULKANA	378	608	627
HOMER	387	754	785
JUNEAU	337	618	620
KING SALMON	347	658	673
KODIAK	376	820	651
KOTZEBUE	415	866	918
MC GRATH	334	507	576
NOME	476	890	952
ST. PAUL ISLAND	539	1192	1141
SUMMIT	511	884	911
TALKEETNA	296	518	542
UNALAKLEET	311	558	747
VALDEZ	317	609	766
YAKUTAT	[illegible]	754	739
ARIZONA			
FLAGSTAFF	66	89	145
PHOENIX	0	0	0
TUCSON	0	0	0
WINSLOW	0	0	0
YUMA			0
ARKANSAS			
FORT SMITH	0	0	
LITTLE ROCK	0	0	0
CALIFORNIA			
BAKERSFIELD			0
BISHOP	0	1	5
BLUE CANYON	115	170	85
EUREKA U	290	534	518
FRESNO	0	0	0
LONG BEACH	0	0	0
LOS ANGELES		0	34
LOS ANGELES U	0	0	0
MT SHASTA R	86	139	101
OAKLAND	50	157	154
RED BLUFF	0	0	0
SACRAMENTO	0	0	0
SANDBERG R	18	25	17
SAN DIEGO	0	0	6
SAN FRANCISCO	75	184	177
SAN FRANCISCO U	170	355	379
SANTA MARIA	63	166	214
STOCKTON	1	1	0
COLORADO			
ALAMOSA	102	128	151
COLORADO SPRINGS	10	10	22
DENVER	4	4	0
GRAND JUNCTION	0	0	0
PUEBLO			0
CONNECTICUT			
BRIDGEPORT		0	0
HARTFORD	11	11	12
DELAWARE			
WILMINGTON		0	0
DIST. OF COLUMBIA			
WASHINGTON DULLES	0	0	0
WASHINGTON NATIONAL		0	0
FLORIDA			
APALACHICOLA	0	0	
DAYTONA BEACH		0	0
FORT MYERS		0	0
JACKSONVILLE	0	0	0
KEY WEST	0		0
LAKELAND	0	0	0
MIAMI	0		0
ORLANDO			0
PENSACOLA		0	0
TALLAHASSEE		0	0
TAMPA		0	0
WEST PALM BEACH	0		0
GEORGIA			
ATHENS			0
ATLANTA	0	0	0
AUGUSTA	0	0	0
COLUMBUS	0	0	0
MACON	0	0	0
ROME	0	0	0
SAVANNAH	0	0	0
IDAHO			
BOISE	21	27	[illegible]
LEWISTON	17	18	17
POCATELLO	4	51	20
ILLINOIS			
CAIRO U	0	0	0
CHICAGO O HARE	0	1	25
CHICAGO MIDWAY	0	2	8
MOLINE		9	11
PEORIA	1	14	8
ROCKFORD	0	12	[illegible]
SPRINGFIELD	0	10	8
INDIANA			
EVANSVILLE	0	0	0
FORT WAYNE	4	12	12
INDIANAPOLIS	0	8	5
SOUTH BEND	1	14	30
IOWA			
BURLINGTON	0	6	8
DES MOINES	0	0	13
DUBUQUE		24	38
SIOUX CITY	0	1	10
WATERLOO	4	22	33
KANSAS			
CONCORDIA	0	0	5
DODGE CITY	0	0	0
GOODLAND	4	4	[illegible]
TOPEKA	0	2	1
WICHITA	0	0	0
KENTUCKY			
COVINGTON	0	5	0
LEXINGTON	0	0	0
LOUISVILLE	0	0	0
LOUISIANA			
ALEXANDRIA	0	0	0
BATON ROUGE	0	0	0
LAKE CHARLES	0	0	0
NEW ORLEANS	0	0	0
SHREVEPORT	0	0	0
MAINE			
CARIBOU	93	112	206
PORTLAND	59	72	62
MARYLAND			
BALTIMORE	0	0	0
MASSACHUSETTS			
BLUE HILL OBS R	31	34	29
BOSTON	8	8	8
WORCHESTER	47	49	34
MICHIGAN			
ALPENA	72	115	185
DETROIT	0	0	11
DETROIT METRO	0	4	21
FLINT	2	10	50
GRAND RAPIDS	5	21	35
HOUGHTON LAKE	68	112	153
LANSING	13	24	36
MARQUETTE	45	94	139
MUSKEGON	5	21	52
SAULT STE MARIE	70	134	221
MINNESOTA			
DULUTH	129	175	171
INTERNATIONAL FALLS	118	159	178
MINNEAPOLIS	7	22	32
ROCHESTER	7	26	56
ST CLOUD	29	46	55
MISSISSIPPI			
JACKSON	0	0	0
MERIDIAN	0	0	0
MISSOURI			
COLUMBIA REGIONAL	0	2	0
KANSAS CITY	0	0	0
ST JOSEPH			
ST LOUIS	0	2	0
SPRINGFIELD	0	0	6
MONTANA			
BILLINGS	31	32	25
GLASGOW	68	73	45
GREAT FALLS	60	72	65
HAVRE	49	56	58
HELENA	119	133	97
KALISPELL	133	148	198
MILES CITY	2	20	25
MISSOULA	116	125	110
NEBRASKA			
GRAND ISLAND	0	0	6
LINCOLN	0	0	0
NORFORK	0	2	17
NORTH PLATTE	0	6	15
OMAHA	0	0	6
SCOTTSBLUFF	11	11	8
VALENTINE	5	10	18
NEVADA			
ELKO	77	85	87
ELY	81	100	85
LAS VEGAS	0	0	0
RENO	65	91	67
WINNEMUCCA	41	54	48
NEW HAMPSHIRE			
CONCORD	78	88	61
MT WASHINGTON OBS	513	928	1060
NEW JERSEY			
ATLANTIC CITY	2	2	0
ATLANTIC CITY U	0	0	0
NEWARK	1	1	0
TRENTON U	4	4	0
NEW MEXICO			
ALBUQUERQUE	0	0	0
CLAYTON	0	0	0
ROSWELL	0	0	0
NEW YORK			
ALBANY	19	19	31
BINGHAMTON	39	39	61
BUFFALO	15	18	45
NEW YORK U	3	3	0
NEW YORK KENNEDY	3	3	0
NEW YORK LA GUARDIA	4	4	0
ROCHESTER	14	18	35
SYRACUSE	32	35	29
NORTH CAROLINA			
ASHEVILLE	0	0	0
CAPE HATTERAS R	0	0	0
CHARLOTTE	0	0	0
GREENSBORO	0	0	0
RALEIGH	0	0	0
WILMINGTON	0	0	0
NORTH DAKOTA			
BISMARCK	39	48	53
FARGO	22	36	46
WILLISTON	60	61	57
OHIO			
AKRON	1	3	25
CINCINNATI ABBE OB	0	0	0
CLEVELAND	4	9	26
COLUMBUS	0	0	8
DAYTON U	0	2	7
MANSFIELD	4	6	10
TOLEDO	6	13	23
YOUNGSTOWN	8	16	31
OKLAHOMA			
OKLAHOMA CITY	0	0	0
TULSA	0	0	0
OREGON			
ASTORIA	155	288	314
BURNS U	107	146	98
EUGENE	56	74	92
MEDFORD	18	36	32
PENDLETON	12	12	19
PORTLAND	41	65	104
SALEM	84	121	96
SEXTON SUMMIT R	166	275	212
PENNSYLVANIA			
ALLENTOWN	7	7	6
ERIE	14	17	67
HARRISBURG	0	0	0
PHILADELPHIA	0	0	0
PITTSBURGH	0	0	23
PITTSBURGH U	0	0	6
SCRANTON	8	8	25
WILLIAMSPORT	9	10	14
RHODE ISLAND			
BLOCK ISLAND	6	6	20
PROVIDENCE	13	13	10
SOUTH CAROLINA			
CHARLESTON	0	0	0
CHARLESTON U	0	0	0
COLUMBIA	0	0	0
GRNVLLE-SPRTNBRG	0	0	0
SOUTH DAKOTA			
ABERDEEN	6	8	33
HURON	3	7	22
RAPID CITY	16	19	30
SIOUX FALLS	5	8	28
TENNESSEE			
BRISTOL	0	0	0
CHATTANOOGA	0	0	0
KNOXVILLE	0	0	0
MEMPHIS	0	0	0
NASHVILLE	0	0	0
OAK RIDGE	0	0	0
TEXAS			
ABILENE	0	0	0
AMARILLO	0	0	0
AUSTIN	0	0	0
BROWNSVILLE	0	0	0
CORPUS CHRISTI	0	0	0
DALLAS FT WORTH	0	0	0
DEL RIO	0	0	0
EL PASO	0	0	0
GALVESTON	0	0	0
HOUSTON INTERCON	0	0	0
LUBBOCK	0	0	0
MIDLAND	0	0	0
PORT ARTHUR	0	0	0
SAN ANGELO	0	0	0
SAN ANTONIO	0	0	0
VICTORIA	0	0	0
WACO	0	0	0
WICHITA FALLS	0	0	0
UTAH			
MILFORD	7	7	7
SALT LAKE CITY	1	1	5
WENDOVER	0	0	0
VERMONT			
BURLINGTON	45	45	69
VIRGINIA			
LYNCHBURG	0	0	0
NORFORK	0	0	0
RICHMOND	0	0	0
ROANOKE	0	0	0
WALLOPS ISLAND	0	0	0
WASHINGTON			
OLYMPIA	138	211	192
QUILLAYUTE	230	406	389
SEATTLE	81	109	120
SEATTLE-TACOMA	73	96	162
SPOKANE	75	97	68
STAMPEDE PASS R	456	716	577
WALLA WALLA U	16	19	17
YAKIMA	37	37	57
WEST VIRGINIA			
BECKLEY	2	2	28
CHARLESTON	0	0	0
ELKINS	7	9	56
HUNTINGTON	0	0	0
PARKERSBURG U	0	0	0
WISCONSIN			
GREEN BAY	27	56	76
LA CROSSE	2	22	27
MADISON	11	29	53
MILWAUKEE	4	21	51
WYOMING			
CASPER	16	19	30
CHEYENNE	39	50	53
LANDER	38	38	23
SHERIDAN	43	44	59

COOLING DEGREE DAYS

(Base 65°F.)

AUGUST 1975

State and station	Current season: This month	Current season: Period January through this month	Normals January through this month
ALABAMA			
BIRMINGHAM	447	1550	1571
HUNTSVILLE	413	1328	1488
MOBILE	524	2128	2016
MONTGOMERY	545	1795	1784
ALASKA			
ANCHORAGE	0	2	0
ANNETTE	0	8	14
BARROW	0	0	0
BARTER ISLAND	0	0	0
BETHEL	0	1	0
BETTLES	0	59	17
BIG DELTA	4	21	34
COLD BAY	0	0	0
FAIRBANKS	1	175	52
GULKANA	0	22	9
HOMER	0	0	0
JUNEAU	0	7	0
KING SALMON	0	0	0
KODIAK	0	0	0
KOTZEBUE	0	0	0
MC GRATH	0	18	14
NOME	0	1	0
ST. PAUL ISLAND	0	0	0
SUMMIT	0	0	0
TALKEETNA	0	10	6
UNALAKLEET	3	4	0
VALDEZ	0	0	0
YAKUTAT	0	0	0
ARIZONA			
FLAGSTAFF	28	88	134
PHOENIX	839	2834	2678
TUCSON	651	1925	2148
WINSLOW	336	937	1035
YUMA	854	2758	3120
ARKANSAS			
FORT SMITH	454	1450	1669
LITTLE ROCK	455	1674	1608
CALIFORNIA			
BAKERSFIELD	564	1980	1711
BISHOP	258	895	903
BLUE CANYON	88	291	257
EUREKA U	0	0	0
FRESNO	344	1224	1338
LONG BEACH	243	581	644
LOS ANGELES	108	263	375
LOS ANGELES U	221	542	765
MT SHASTA R	58	228	255
OAKLAND	24	80	70
RED BLUFF	399	1412	1513
SACRAMENTO	375	1198	911
SANDBERG R	219	496	630
SAN DIEGO	124	285	468
SAN FRANCISCO	19	59	56
SAN FRANCISCO U	8	35	5
SANTA MARIA	4	5	45
STOCKTON	318	1052	1000
COLORADO			
ALAMOSA	4	28	88
COLORADO SPRINGS	180	434	423
DENVER	192	510	566
GRAND JUNCTION	328	889	1003
PUEBLO	326	908	880
CONNECTICUT			
BRIDGEPORT	285	743	642
HARTFORD	229	830	544
DELAWARE			
WILMINGTON	355	996	861
DIST.OF COLUMBIA			
WASHINGTON DULLES	330	918	831
WASHINGTON NATIONAL	475	1457	1204
FLORIDA			
APPALACHICOLA U	505	1931	1998
DAYTONA BEACH	487	2277	2077
FORT MYERS	588	3026	2578
JACKSONVILLE	508	2039	1944
KEY WEST	610	3737	3366
LAKELAND U	511	2585	2365
MIAMI	553	3170	2752
ORLANDO	541	2557	2300
PENSACOLA	536	2193	2073
TALLAHASSEE	513	1971	1975
TAMPA	585	2855	2402
WEST PALM BEACH	514	2760	2577
GEORGIA			
ATHENS	466	1493	1430
ATLANTA	406	1323	1305
AUGUSTA	488	1524	1635
COLUMBUS	494	1748	1729
MACON	476	1663	1857
ROME	421	1409	1338
SAVANNAH	528	1969	1834
HAWAII			
HILO	339	2017	1978
HONOLULU	475	2657	2713
KAHULUI	385	2231	2404
LIHUE	413	2491	2385
IDAHO			
BOISE	182	682	638
LEWISTON	194	664	584
POCATELLO	98	413	413
ILLINOIS			
CAIRO U	422	1658	1530
CHICAGO O HARE	358	969	601
CHICAGO MIDWAY	358	1043	822
MOLINE	319	971	810
PEORIA	307	919	866
ROCKFORD	258	807	655
SPRINGFIELD	367	1070	981
INDIANA			
EVANSVILLE	388	1341	1182
FORT WAYNE	260	786	664
INDIANAPOLIS	355	961	859
SOUTH BEND	274	795	625
IOWA			
BURLINGTON	310	970	892
DES MOINES	383	1147	837
DUBUQUE	198	661	564
SIOUX CITY	320	935	858
WATERLOO	253	858	630
KANSAS			
CONCORDIA	480	1236	1132
DODGE CITY	515	1284	1226
GOODLAND	344	762	829
TOPEKA	448	1294	1180
WICHITA	515	1321	1429
KENTUCKY			
COVINGTON	376	1067	935
LEXINGTON	394	1159	1026
LOUISVILLE	451	1349	1083
LOUISIANA			
ALEXANDRIA	536	2076	1754
BATON ROUGE	500	2050	2025
LAKE CHARLES	501	2041	2106
NEW ORLEANS	491	2022	2078
SHREVEPORT	493	1770	2004
MAINE			
CARIBOU	80	271	128
PORTLAND	120	349	241
MARYLAND			
BALTIMORE	404	1123	962
MASSACHUSETTS			
BLUE HILL OBS R	169	550	424
BOSTON	261	805	600
WORCHESTER	132	452	363
MICHIGAN			
ALPENA	102	379	208
DETROIT	306	1007	668
DETROIT METRO	232	718	593
FLINT	158	541	405
GRAND RAPIDS	184	596	533
HOUGHTON LAKE	78	365	242
LANSING	162	592	495
MARQUETTE U	118	412	209
MUSKEGON	174	566	431
SAULT STE MARIE	54	241	139
MINNESOTA			
DULUTH	41	229	176
INTERNATIONAL FALLS	38	326	176
MINNEAPOLIS	220	816	555
ROCHESTER	194	682	453
ST CLOUD	117	534	414
MISSISSIPPI			
JACKSON	487	1878	1860
MERIDIAN	506	1863	1810
MISSOURI			
COLUMBIA REGIONAL	339	1011	1098
KANSAS CITY	464	1385	1227
ST JOSEPH			
ST LOUIS	406	1266	1261
SPRINGFIELD	364	1187	1177
MONTANA			
BILLINGS	126	447	460
GLASCOW	75	372	409
GREAT FALLS	42	303	383
HAVRE	64	345	369
HELENA	12	167	237
KALISPELL	30	207	108
MILES CITY	165	607	682
MISSOULA	31	258	178
NEBRASKA			
GRAND ISLAND	384	966	936
LINCOLN	459	1171	1032
NORFOLK	359	996	846
NORTH PLATTE	260	681	742
OMAHA	464	1269	1044
SCOTTSBLUFF	245	745	620
VALENTINE	272	836	685
NEVADA			
ELKO	56	283	316
ELY	40	168	191
LAS VEGAS	704	2346	2348
RENO	66	312	305
WINNEMUCCA	113	460	382
NEW HAMPSHIRE			
CONCORD	134	553	332
MT WASHINGTON OBS	1	1	0
NEW JERSEY			
ATLANTIC CITY	282	825	766
ATLANTIC CITY U	313	755	706
NEWARK	321	1024	895
TRENTON U	329	987	853
NEW MEXICO			
ALBUQUERQUE	351	1004	1149
CLAYTON	260	636	686
ROSWELL	416	1242	1354
NEW YORK			
ALBANY	180	583	532
BINGHAMTON	121	550	341
BUFFALO	171	628	401
NEW YORK J	299	945	923
NEW YORK KENNEDY	301	815	751
NEW YORK LA GUARDIA	293	878	915
ROCHESTER	178	645	486
SYRACUSE	138	553	497
NORTH CAROLINA			
ASHEVILLE	252	706	756
CAPE HATTERAS R	479	1421	1200
CHARLOTTE	436	1327	1326
GREENSBORO	473	1340	1147
RALEIGH	421	1193	1177
WILMINGTON	545	1814	1578
NORTH DAKOTA			
BISMARCK	104	431	460
FARGO	126	537	452
WILLISTON	77	371	397
OHIO			
AKRON	260	763	566
CINCINNATI ABBE OB	436	1233	1027
CLEVELAND	241	709	544
COLUMBUS	389	1088	719
DAYTON U	302	908	821
MANSFIELD	247	729	717
TOLEDO	230	678	615
YOUNGSTOWN	207	639	469
OKLAHOMA			
OKLAHOMA CITY	476	1358	1556
TULSA	542	1628	1612
OREGON			
ASTORIA	0	6	13
BURNS U	71	312	267
EUGENE	47	210	210
MEDFORD	129	460	491
PENDLETON	179	717	589
PORTLAND	57	265	265
SALEM	30	156	205
SEXTON SUMMIT R	27	156	117
PACIFIC AREA			
GUAM TAGUAC R	409	3355	3312
JOHNSTON	476	3161	3305
KOROR R	524	4055	3974
KWAJALEIN	498	4135	4084
MAJURO	468	3762	3922
PAGO PAGO	450	3694	3547
PONAPE R	481	3930	3770
TRUK MOEN ISLAND	506	4058	3915
WAKE	539	3464	3528
YAP R	459	3785	3928
PENNSYLVANIA			
ALLENTOWN	247	759	690
ERIE	156	573	340
HARRISBURG	354	968	906
PHILADELPHIA	380	1091	967
PITTSBURGH	257	702	578
SCRANTON	207	722	548
WILLIAMSPORT	197	590	626
RHODE ISLAND			
BLOCK ISLAND	208	459	316
PROVIDENCE	218	673	487
SOUTH CAROLINA			
CHARLESTON	516	1816	1654
CHARLESTON U	572	1979	1834
COLUMBIA	488	1747	1706
GRNVLLE-SPRTNBRG	427	1310	1320
SOUTH DAKOTA			
ABERDEEN	242	830	538
HURON	275	865	671
RAPID CITY	188	552	590
SIOUX FALLS	252	858	671
TENNESSEE			
BRISTOL	353	960	936
CHATTANOOGA	382	1175	1368
KNOXVILLE	434	1336	1313
MEMPHIS	510	1814	1684
NASHVILLE	444	1453	1421
OAK RIDGE	353	1031	1160
TEXAS			
ABILENE	513	1670	2001
AMARILLO	367	1055	1233
AUSTIN	552	2028	2261
BROWNSVILLE	546	2889	2834
CORPUS CHRISTI	573	2802	2595
DALLAS FT WORTH	620	2041	2054
DEL RIO	582	2289	2659
EL PASO	502	1667	1761
GALVESTON	599	2264	2214
HOUSTON INTERCON	505	2087	2207
LUBBOCK	392	1263	1421
MIDLAND	437	1619	1828
PORT ARTHUR	556	2050	2146
SAN ANGELO	493	1712	2194
SAN ANTONIO	524	1988	2336
VICTORIA	591	2565	2382
WACO	618	1954	2252
WICHITA FALLS	558	1824	2122
UTAH			
MILFORD	141	438	628
SALT LAKE CITY	269	806	817
WENDOVER	316	997	1010
VERMONT			
BURLINGTON	181	693	376
VIRGINIA			
LYNCHBURG	365	970	957
NORFOLK	460	1439	1190
RICHMOND	433	1199	1155
ROANOKE	379	1006	896
WALLOPS ISLAND	431	1057	919
WASHINGTON			
OLYMPIA	9	58	95
QUILLAYUTE	0	5	8
SEATTLE	20	173	166
SEATTLE-TACOMA	29	158	121
SPOKANE	57	320	354
STAMPEDE PASS R	0	35	16
WALLA WALLA U	185	692	767
YAKIMA	86	462	443
WEST INDIES			
SAN JUAN P.R.	556	3752	3238
WEST VIRGINIA			
BECKLEY	221	510	433
CHARLESTON	372	981	915
ELKINS	161	370	355
HUNTINGTON	425	1155	951
PARKERSBURG U	352	985	907
WISCONSIN			
GREEN BAY	126	509	318
LA CROSSE	215	783	549
MADISON	190	703	440
MILWAUKEE	203	561	421
WYOMING			
CASPER	117	389	418
CHEYENNE	86	183	306
LANDER	100	318	356
SHERIDAN	83	283	414

STORM SUMMARY

STATE	TORNADOES					HAILSTORMS				WINDSTORMS				LIGHTNING				@HEAVY SNOWSTORMS AND BLIZZARDS				≠ ICE STORMS				‡ ALL OTHER			
	NUMBER	DAYS	DEATHS	INJURIES	† DAMAGE	DEATHS	INJURIES	†DAMAGE PROPERTY	CORPS	DEATHS	INJURIES	†DAMAGE PROPERTY	CORPS	DEATHS	INJURIES	†DAMAGE PROPERTY	CORPS	DEATHS	INJURIES	†DAMAGE PROPERTY	CORPS	DEATHS	INJURIES	†DAMAGE PROPERTY	CORPS	DEATHS	INJURIES	†DAMAGE PROPERTY	CORPS
Alabama															1														
Alaska *																													
Arizona											3	5				4												4	
Arkansas								2	2		70	3		2	2	4													
California *																													
Colorado								4	4			3	3															3	4
Connecticut *																													
Delaware	2	1			3				2			4				4													
Florida	13	10		3	5						8	5		2	3	5													
Georgia									3		1	4	4		3	4													
Hawaii *																													
Idaho								2	4		1	4				4													4
Illinois	1	1			4				5		1	5	3			4												6	4
Indiana	3	2		4	5							4			1	4	C											°5	C
Iowa	2	2			5			4	4			6	5		1	5												6	
Kansas	1	1			4			6	6			5		1		5													
Kentucky								4	4		1	5	4			4										1		5	4
Louisiana	2	1							4					1	7	5													
Maine									4						1	3												4	
Maryland & D.C.	1	1			4							3				5												4	
Massachusetts															1	4													
Michigan	3	2			4					2	2	4	C		104	6												6	C
Minnesota	4	3	2	1	6			5	5		10	6	5	1	3	5													
Mississippi	1	1			1			1	2			2	2	1														2	2
Missouri	1	1			5			2	2		1	5		1	2	4											3	°5	C
Montana	1	1			1			5	6			5	4		1	3													
Nebraska	2	2			4			3	5		1	5	5			6	5												
Nevada	1	1			5							4																	
New Hampshire									4			2	2			3												2	
New Jersey *																													
New Mexico																												6	
New York								5	C		2	2	2	2	18	2	2										5	°6	C
North Carolina								5	5			5	5	1	5														
North Dakota	4	3			2			2	2			2	2			2	2												
Ohio	4	2		2	5							4		2	3											2		7	
Oklahoma								4	5		3	4				4												4	
Oregon	1	1			2							2																	
Pacific *																													
Pennsylvania	1	1			3				2	2	8	6	2			6												5	
Puerto Rico *																													
Rhode Island *																													
South Carolina												5	4		2	4													
South Dakota								5	6			5	6			5	5											2	2
Tennessee											2	4				4												4	
Texas	3	2						2	2			5				4												2	2
Utah								4	5																				
Vermont												5	C			°5	C												
Virginia	4	4			5			3	5			5	4			4												2	
Virgin Islands *																													
Washington												5	4															6	5
West Virginia												5				5										2		7	
Wisconsin	5	3		6	5			°5	C	2	2	°6	C		2	5											2	°6	C
Wyoming														1															

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

AUGUST 1975

Herbert J. Thompson, Office of Hydrology

Record crest stages were reported during August on the White and Little Muskegon Rivers in Michigan, the Shoal River in Florida, and the Trempealeau River in Wisconsin.

Flash floods took a total of 7 lives during the month and did extensive damage in several communities including Cleveland, OH, Buffalo, NY, and Des Moines, IA.

The major flooding in northwestern Florida which began in late July continued into early August. Moderate flooding was reported on the Lumber River in North Carolina, the Pearl River in Mississippi, the Cache River in Arkansas, the upper Calcasieu River in Louisiana, and the lower Neches Basin and lower Trinity River in Texas. Minor flooding was reported in a few areas of the country.

These and other hydrologic events of unusual significance or involving loss of life or property damage are discussed in more detail below.

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ST. LAWRENCE DRAINAGE		
Great Lakes Drainage in Michigan	Record monthly rainfall totals and record crest stages occurred in lower Michigan during August. Rainfall the first three weeks of August was near normal for most of Michigan with no flooding problems. Beginning on the 21st heavy rainfall occurred over the southern Lower Peninsula through the end of the month with new August total rainfall records being set at many locations. Among them are: Muskegon, 9.88; Lansing, 9.81; and Detroit, 7.83. Amounts up to 13 inches were recorded for the month by some cooperative observers. The period August 29 through September 1 produced very heavy rainfall, with totals of 3 to 6 inches being common for the period and more than 7 inches recorded in some west central locations. An amount of 6 inches in 24 hours was reported in the headwaters of the White Basin with a record crest stage at Whitehall on September 1. A record stage also occurred on the little Muskegon River at Morley. Extensive agricultural damage occurred with many communities affected by urban flooding. A large number of home basements were flooded throughout the area. Flooding continued into September on these streams. No flood stage has as yet been established for them.	0	N.A.
Cleveland, OH area	Severe urban and flash flooding struck the Cleveland, OH area during the period of the 24th-31st. The major damage was caused by the storm of the 24th, which deposited amounts of up to 5 inches over the greater Cleveland area during a period of about two hours. A storm of this intensity has been estimated by the Cleveland office to have a return period in excess of 100 years. The heaviest concentration of rain was over the lower Big Creek Drainage, inundating the Brookfield Recreational Park, the Cleveland Zoological Park, and an industrial park downstream where the major damage occurred. Although extensive damage occurred at the zoo there was surprisingly no loss of life there, either human or animal, in spite of the Sunday crowds. However, two people	2	5,000

HEATING DEGREE DAYS

(Base 65°F.)

SEPTEMBER 1975

State and Station	Current season		Normals
	This month	Period July through this month	July through this month
ALABAMA			
BIRMINGHAM	49	49	6
HUNTSVILLE	65	65	11
MOBILE	9	9	0
MONTGOMERY	19	19	0
ALASKA			
ANCHORAGE	463	907	1009
ANNETTE	328	875	772
BARROW	1226	3007	2705
BARTER ISLAND	1157	2837	2586
BETHEL	658	1237	1313
BETTLES	790	1261	1387
BIG DELTA	577	1071	1145
COLD BAY	553	1376	1418
FAIRBANKS	570	873	1070
GULKANA	555	1163	1267
HOMER	504	1258	1325
JUNEAU	402	1020	1094
KING SALMON	526	1184	1204
KODIAK	507	1327	1101
KOTZEBUE	834	1700	1535
MC GRATH	668	1175	1212
NOME	818	1708	1639
ST. PAUL ISLAND	670	1852	1759
SUMMIT	745	1629	1664
TALKEETNA	535	1053	1109
UNALAKLEET	680	1238	1392
VALDEZ	548	1157	1321
YAKUTAT	455	1209	1239
ARIZONA			
FLAGSTAFF	207	296	376
PHOENIX	0	0	0
TUCSON	0	0	0
WINSLOW	28	28	19
YUMA	0	0	0
ARKANSAS			
FORT SMITH	62	62	0
LITTLE ROCK	48	48	5
CALIFORNIA			
BAKERSFIELD	0	0	0
BISHOP	0	1	49
BLUE CANYON	16	186	193
EUREKA J	286	820	770
FRESNO	0	0	0
LONG BEACH	0	0	7
LOS ANGELES	0	0	57
LOS ANGELES U	0	0	5
MT SHASTA R	35	174	246
OAKLAND	97	254	213
RED BLUFF	0	0	0
SACRAMENTO	0	0	5
SANDBERG R	0	25	50
SAN DIEGO	0	0	22
SAN FRANCISCO	120	304	243
SAN FRANCISCO U	177	532	481
SANTA MARIA	96	262	308
STOCKTON	0	1	0
COLORADO			
ALAMOSA	319	447	445
COLORADO SPRINGS	200	210	177
DENVER	195	199	120
GRAND JUNCTION	35	35	60
PUEBLO	119	119	55
CONNECTICUT			
BRIDGEPORT	59	59	42
HARTFORD	121	132	118
DELAWARE			
WILMINGTON	56	56	32
DIST.OF COLUMBIA			
WASHINGTON DULLES	83	83	43
WASHINGTON NATIONAL	20	20	14
FLORIDA			
APPALACHICOLA U	3	3	0
DAYTONA BEACH	0	0	0
FORT MYERS	0	0	0
JACKSONVILLE	0	0	0
KEY WEST	0	0	0
LAKELAND U	0	0	0
MIAMI	0	0	0
ORLANDO	0	0	0
PENSACOLA	12	12	0
TALLAHASSEE	5	5	0
TAMPA	0	0	0
WEST PALM BEACH	0	0	0
GEORGIA			
ATHENS	14	14	6
ATLANTA	28	28	8
AUGUSTA	2	2	0
COLUMBUS	20	20	0
MACON	10	10	0
ROME	32	32	11
SAVANNAH	0	0	0
IDAHO			
BOISE	74	101	139
LEWISTON	48	66	141
POCATELLO	168	219	212
ILLINOIS			
CAIRO U	68	68	11
CHICAGO O HARE	147	148	115
CHICAGO MIDWAY	155	157	65
MOLINE	162	171	90
PEORIA	171	185	78
ROCKFORD	225	237	121
SPRINGFIELD	125	135	56
INDIANA			
EVANSVILLE	75	75	34
FORT WAYNE	173	185	102
INDIANAPOLIS	137	145	68
SOUTH BEND	175	189	128
IOWA			
BURLINGTON	151	157	78
DES MOINES	148	148	107
DUBUQUE	245	269	172
SIOUX CITY	204	205	123
WATERLOO	262	284	170
KANSAS			
CONCORDIA	135	135	73
DODGE CITY	92	92	41
GOODLAND	129	133	108
TOPEKA	137	139	55
WICHITA	98	98	32
KENTUCKY			
COVINGTON	142	147	44
LEXINGTON	128	128	40
LOUISVILLE	73	73	35
LOUISIANA			
ALEXANDRIA	12	12	0
BATON ROUGE	6	6	0
LAKE CHARLES	0	0	0
NEW ORLEANS	6	6	0
SHREVEPORT	4	4	0
MAINE			
CARIBOU	310	422	533
PORTLAND	230	302	282
MARYLAND			
BALTIMORE	50	50	27
MASSACHUSETTS			
BLUE HILL OBS R	156	190	131
BOSTON	70	78	84
WORCHESTER	223	272	178
MICHIGAN			
ALPENA	334	449	450
DETROIT			
DETROIT METRO	178	182	116
FLINT	225	235	197
GRAND RAPIDS	242	263	149
HOUGHTON LAKE	333	445	401
LANSING	266	290	169
MARQUETTE U	317	411	374
MUSKEGON	249	270	189
SAULT STE MARIE	373	507	512
MINNESOTA			
DULUTH	418	593	489
INTERNATIONAL FALLS	426	585	542
MINNEAPOLIS	231	253	205
ROCHESTER	273	299	241
ST CLOUD	312	358	283
MISSISSIPPI			
JACKSON	26	26	0
MERIDIAN	22	22	0
MISSOURI			
COLUMBIA REGIONAL	149	151	42
KANSAS CITY	142	142	42
ST JOSEPH	134	134	54
ST LOUIS	110	112	35
SPRINGFIELD	152	152	41
MONTANA			
BILLINGS	185	217	246
GLASGOW	260	333	308
GREAT FALLS	235	307	320
HAVRE	257	313	322
HELENA	322	455	394
KALISPELL	306	454	558
MILES CITY	211	231	242
MISSOULA	263	388	411
NEBRASKA			
GRAND ISLAND	178	178	113
LINCOLN	168	168	83
NORFORK	207	209	140
NORTH PLATTE	228	234	156
OMAHA	141	141	77
SCOTTSBLUFF	193	204	168
VALENTINE	231	241	172
NEVADA			
ELKO	180	265	335
ELY	217	317	350
LAS VEGAS	0	0	0
RENO	51	142	235
WINNEMUCCA	69	123	247
NEW HAMPSHIRE			
CONCORD	260	348	243
MT WASHINGTON OBS	780	1708	1774
NEW JERSEY			
ATLANTIC CITY	108	110	35
ATLANTIC CITY U	49	49	23
NEWARK	59	60	34
TRENTON U	67	71	39
NEW MEXICO			
ALBUQUERQUE	47	47	7
CLAYTON	158	158	73
ROSWELL	48	48	17
NEW YORK			
ALBANY	173	192	166
BINGHAMTON	250	289	233
BUFFALO	197	215	183
NEW YORK U	62	65	29
NEW YORK KENNEDY	60	63	42
NEW YORK LA GUARDIA	56	60	30
ROCHESTER	194	212	161
SYRACUSE	230	265	149
NORTH CAROLINA			
ASHEVILLE	77	77	50
CAPE HATTERAS R	0	0	0
CHARLOTTE	13	13	10
GREENSBORO	31	31	24
RALEIGH	17	17	12
WILMINGTON	0	0	0
NORTH DAKOTA			
BISMARCK	295	343	305
FARGO	284	320	280
WILLISTON	299	360	331
OHIO			
AKRON	183	186	126
CINCINNATI ABBE OB	92	92	37
CLEVELAND	187	196	121
COLUMBUS	110	110	84
DAYTON U	130	132	70
MANSFIELD	188	194	89
TOLEDO	227	240	122
YOUNGSTOWN	189	205	149
OKLAHOMA			
OKLAHOMA CITY	64	64	12
TULSA	57	57	10
OREGON			
ASTORIA	183	471	515
BURNS U	123	269	324
EUGENE	40	114	211
MEDFORD	14	50	121
PENDLETON	43	55	116
PORTLAND	48	113	223
SALEM	79	200	216
SEXTON SUMMIT R	71	346	391
PENNSYLVANIA			
ALLENTOWN	122	129	91
ERIE	197	214	208
HARRISBURG	87	87	51
PHILADELPHIA	45	45	38
PITTSBURGH	192	192	121
PITTSBURGH U	121	121	64
SCRANTON	158	166	141
WILLIAMSPORT	168	178	110
RHODE ISLAND			
BLOCK ISLAND	76	82	99
PROVIDENCE	132	145	103
SOUTH CAROLINA			
CHARLESTON	0	0	0
CHARLESTON U	0	0	0
COLUMBIA	0	0	0
GRNVLLE-SPRTNBRG	24	24	9
SOUTH DAKOTA			
ABERDEEN	208	216	235
HURON	236	243	191
RAPID CITY	206	225	221
SIOUX FALLS	271	279	193
TENNESSEE			
BRISTOL	46	46	37
CHATTANOOGA	53	53	9
KNOXVILLE	42	42	10
MEMPHIS	40	40	7
NASHVILLE	68	68	10
OAK RIDGE	79	79	20
TEXAS			
ABILENE	55	55	0
AMARILLO	104	104	20
AUSTIN	1	1	0
BROWNSVILLE	0	0	[illegible]
CORPUS CHRISTI	0	0	0
DALLAS FT WORTH	4	4	0
DEL RIO	0	0	0
EL PASO	20	20	0
GALVESTON	0	0	0
HOUSTON INTERCON	0	0	0
LUBBOCK	76	76	8
MIDLAND	40	40	0
PORT ARTHUR	0	0	0
SAN ANGELO	32	32	0
SAN ANTONIO	1	1	0
VICTORIA	0	0	0
WACO	2	2	0
WICHITA FALLS	52	52	0
UTAH			
MILFORD	100	107	127
SALT LAKE CITY	62	63	110
WENDOVER	33	33	86
VERMONT			
BURLINGTON	208	253	260
VIRGINIA			
LYNCHBURG	60	60	33
NORFORK	6	6	9
RICHMOND	27	27	21
ROANOKE	59	59	32
WALLOPS ISLAND	13	13	15
WASHINGTON			
OLYMPIA	210	421	390
QUILLAYUTE	214	622	635
SEATTLE	93	202	269
SEATTLE-TACOMA	93	189	332
SPOKANE	136	233	264
STAMPEDE PASS R	323	1039	988
WALLA WALLA U	47	66	85
YAKIMA	100	137	204
WEST VIRGINIA			
BECKLEY	146	148	145
CHARLESTON	106	106	46
ELKINS	160	169	195
HUNTINGTON	91	91	46
PARKERSBURG J	118	118	46
WISCONSIN			
GREEN BAY	307	363	267
LA CROSSE	236	258	157
MADISON	236	265	226
MILWAUKEE	203	224	191
WYOMING			
CASPER	247	266	259
CHEYENNE	274	324	278
LANDER	219	257	248
SHERIDAN	240	290	304

COOLING DEGREE DAYS

(Base 65 F.)

SEPTEMBER 1975

State and station	Current season		
	This month	Period January through this month	Normals January through this month
ALABAMA			
BIRMINGHAM	211	1761	1844
HUNTSVILLE	170	1498	1736
MOBILE	325	2453	2391
MONTGOMERY	311	2196	2114
ALASKA			
ANCHORAGE	0	2	0
ANNETTE	0	8	14
BARROW	0	0	0
BARTER ISLAND	0	0	0
BETHEL	0	1	0
BETTLES	0	59	17
BIG DELTA	0	21	34
COLD BAY	0	0	0
FAIRBANKS	0	175	52
GULKANA	0	22	5
HOMER	0	0	0
JUNEAU	0	7	0
KING SALMON	0	0	0
KODIAK	0	0	0
KOTZEBUE	0	0	0
MC GRATH	0	18	14
NOME	0	1	0
ST. PAUL ISLAND	0	0	0
SUMMIT	0	0	0
TALKEETNA	0	10	6
UNALAKLEET	0	4	0
VALDEZ	0	0	0
YAKUTAT	0	0	0
ARIZONA			
FLAGSTAFF	0	88	140
PHOENIX	540	3474	3242
TUCSON	458	2383	2601
WINSLOW	106	1043	1189
YUMA	694	3452	3783
ARKANSAS			
FORT SMITH	175	1625	1943
LITTLE ROCK	178	1852	1862
CALIFORNIA			
BAKERSFIELD	538	2518	2059
BISHOP	148	1043	1022
BLUE CANYON	80	371	302
EUREKA U	0	0	0
FRESNO	329	1553	1605
LONG BEACH	282	863	855
LOS ANGELES	163	426	509
LOS ANGELES U	277	819	1001
MT SHASTA R	42	270	286
OAKLAND	23	103	114
RED BLUFF	416	1828	1822
SACRAMENTO	375	1573	1111
SANDBERG R	225	721	780
SAN DIEGO	201	486	631
SAN FRANCISCO	19	78	95
SAN FRANCISCO U	15	50	23
SANTA MARIA	19	24	67
STOCKTON	288	1340	1217
COLORADO			
ALAMOSA	0	28	88
COLORADO SPRINGS	41	475	455
DENVER	39	549	620
GRAND JUNCTION	106	995	1129
PUEBLO	97	1095	971
CONNECTICUT			
BRIDGEPORT	46	789	729
HARTFORD	27	857	584
DELAWARE			
WILMINGTON	73	1069	980
DIST. OF COLUMBIA			
WASHINGTON DULLES	73	991	931
WASHINGTON NATIONAL	132	1589	1386
FLORIDA			
APPALACHICOLA U	357	2288	2406
DAYTONA BEACH	445	2722	2512
FORT MYERS	490	3516	3076
JACKSONVILLE	465	2445	2340
KEY WEST	538	4275	3912
LAKELAND U	449	3025	2821
MIAMI	517	3687	3253
ORLANDO	479	3036	2753
PENSACOLA	350	2543	2472
TALLAHASSEE	352	2323	2268
TAMPA	512	3367	2876
WEST PALM BEACH	472	3232	3072
GEORGIA			
ATHENS	232	1725	1664
ATLANTA	193	1516	1532
AUGUSTA	293	1817	1914
COLUMBUS	279	2027	2044
MACON	261	1924	2181
ROME	188	1597	1565
SAVANNAH	351	2320	2170
HAWAII			
HILO	323	2340	2296
HONOLULU	438	3095	3175
KAHULUI	344	2575	2806
LIHUE	394	2885	2799
IDAHO			
BOISE	96	778	708
LEWISTON	92	756	657
POCATELLO	23	436	437
ILLINOIS			
CAIRO U	160	1818	1751
CHICAGO O HARE	46	1015	652
CHICAGO MIDWAY	52	1095	906
MOLINE	44	1015	877
PEORIA	55	974	951
ROCKFORD	22	829	703
SPRINGFIELD	94	1164	1095
INDIANA			
EVANSVILLE	129	1470	1339
FORT WAYNE	37	823	739
INDIANAPOLIS	71	1032	961
SOUTH BEND	32	827	687
IOWA			
BURLINGTON	58	1028	974
DES MOINES	58	1205	910
DUBUQUE	19	680	596
SIOUX CITY	50	985	923
WATERLOO	30	888	665
KANSAS			
CONCORDIA	115	1351	1275
DODGE CITY	162	1446	1384
GOODLAND	104	866	916
TOPEKA	116	1410	1331
WICHITA	128	1449	1629
KENTUCKY			
COVINGTON	72	1137	1063
LEXINGTON	86	1245	1174
LOUISVILLE	116	1465	1241
LOUISIANA			
ALEXANDRIA	289	2365	2069
BATON ROUGE	302	2352	2400
LAKE CHARLES	311	2352	2508
NEW ORLEANS	314	2336	2474
SHREVEPORT	271	2041	2376
MAINE			
CARIBOU	0	271	128
PORTLAND	2	351	252
MARYLAND			
BALTIMORE	85	1208	1094
MASSACHUSETTS			
BLUE HILL OBS R	10	560	457
BOSTON	44	849	661
WORCHESTER	0	452	387
MICHIGAN			
ALPENA	1	380	208
DETROIT			
DETROIT METRO	7	725	646
FLINT	1	542	432
GRAND RAPIDS	8	604	569
HOUGHTON LAKE	2	367	250
LANSING	5	597	529
MARQUETTE U	1	413	216
MUSKEGON	6	572	463
SAULT STE MARIE	2	243	139
MINNESOTA			
DULUTH	0	229	176
INTERNATIONAL FALLS	0	326	176
MINNEAPOLIS	18	834	578
ROCHESTER	18	700	467
ST CLOUD	7	541	426
MISSISSIPPI			
JACKSON	255	2133	2190
MERIDIAN	274	2131	2119
MISSOURI			
COLUMBIA REGIONAL	83	1094	1239
KANSAS CITY	105	1490	1383
ST JOSEPH	92	[illegible]	
ST LOUIS	110	1376	1434
SPRINGFIELD	109	1296	1341
MONTANA			
BILLINGS	26	468	498
GLASCOW	6	378	438
GREAT FALLS	12	315	332
HAVRE	8	353	395
HELENA	0	167	256
KALISPELL	0	207	117
MILES CITY	18	625	746
MISSOULA	0	258	188
NEBRASKA			
GRAND ISLAND	66	1032	1025
LINCOLN	74	1245	1133
NORFORK	60	1056	915
NORTH PLATTE	39	720	802
OMAHA	76	1345	1154
SCOTTSBLUFF	43	788	666
VALENTINE	47	883	731
NEVADA			
ELKO	0	283	342
ELY	0	168	207
LAS VEGAS	508	2854	2801
RENO	33	345	329
WINNEMUCCA	25	485	407
NEW HAMPSHIRE			
CONCORD	0	553	349
MT WASHINGTON OBS	0	1	0
NEW JERSEY			
ATLANTIC CITY	48	873	864
ATLANTIC CITY U	50	805	825
NEWARK	46	1070	1013
TRENTON U	49	1036	958
NEW MEXICO			
ALBUQUERQUE	96	1100	1309
CLAYTON	82	718	759
ROSWELL	159	1401	1533
NEW YORK			
ALBANY	12	595	574
BINGHAMTON	1	551	369
BUFFALO	3	631	437
NEW YORK U	43	988	1054
NEW YORK KENNEDY	41	856	853
NEW YORK LA GUARDIA	46	924	1038
ROCHESTER	5	650	531
SYRACUSE	1	554	551
NORTH CAROLINA			
ASHEVILLE	89	795	857
CAPE HATTERAS R	345	1766	1461
CHARLOTTE	196	1523	1546
GREENSBORO	192	1532	1312
RALEIGH	209	1402	1357
WILMINGTON	369	2183	1869
NORTH DAKOTA			
BISMARCK	2	433	487
FARGO	1	538	473
WILLISTON	5	376	422
OHIO			
AKRON	5	768	628
CINCINNATI ABBE OB	101	1334	1166
CLEVELAND	6	715	606
COLUMBUS	48	1136	801
DAYTON U	46	954	923
MANSFIELD	8	737	808
TOLEDO	7	685	678
YOUNGSTOWN	8	647	518
OKLAHOMA			
OKLAHOMA CITY	170	1528	1808
TULSA	192	1820	1871
OREGON			
ASTORIA	17	23	13
BURNS U	35	347	289
EUGENE	82	292	239
MEDFORD	140	600	562
PENDLETON	109	826	656
PORTLAND	75	340	300
SALEM	41	197	232
SEXTON SUMMIT R	118	274	137
PACIFIC AREA			
GUAM TAGUAC R	422	3777	3735
JOHNSTON	461	3622	3782
KOROR R	504	4559	4472
KWAJALEIN	482	4617	4609
MAJURO	458	4220	4414
PAGO PAGO	444	4138	3967
PONAPE R	471	4401	4238
TRUK MOEN ISLAND	489	4547	4359
WAKE	505	3969	4056
YAP R	448	4233	4417
PENNSYLVANIA			
ALLENTOWN	18	777	766
ERIE	9	582	373
HARRISBURG	44	1012	1017
PHILADELPHIA	98	1189	1091
PITTSBURGH	12	714	640
SCRANTON	13	735	601
WILLIAMSPORT	10	600	692
RHODE ISLAND			
BLOCK ISLAND	18	487	359
PROVIDENCE	16	689	532
SOUTH CAROLINA			
CHARLESTON	361	2179	1965
CHARLESTON U	376	2355	2182
COLUMBIA	317	2064	1995
GRNVLLE-SPRTNBRG	180	1490	1530
SOUTH DAKOTA			
ABERDEEN	34	864	566
HURON	33	898	711
RAPID CITY	19	571	652
SIOUX FALLS	36	894	713
TENNESSEE			
BRISTOL	136	1222	1078
CHATTANOOGA	162	1337	1584
KNOXVILLE	168	1534	1521
MEMPHIS	224	2038	1949
NASHVILLE	164	1617	1641
OAK RIDGE	114	1145	1333
TEXAS			
ABILENE	230	1906	2334
AMARILLO	134	1189	1397
AUSTIN	329	2357	2678
BROWNSVILLE	408	3297	3332
CORPUS CHRISTI	422	3224	3076
DALLAS FT WORTH	331	2372	2435
DEL RIO	345	2634	3115
EL PASO	241	1908	2037
GALVESTON	378	2642	2664
HOUSTON INTERCON	303	2390	2633
LUBBOCK	155	1418	1609
MIDLAND	217	1836	2140
PORT ARTHUR	335	2385	2563
SAN ANGELO	238	1950	2548
SAN ANTONIO	337	2325	2765
VICTORIA	401	2966	2835
WACO	370	2330	2669
WICHITA FALLS	237	2061	2482
UTAH			
MILFORD	37	475	688
SALT LAKE CITY	80	886	916
WENDOVER	102	1099	1132
VERMONT			
BURLINGTON	5	698	396
VIRGINIA			
LYNCHBURG	103	1073	1083
NORFORK	233	1672	1403
RICHMOND	165	1364	1326
ROANOKE	114	1120	1018
WALLOPS ISLAND	170	1227	1081
WASHINGTON			
OLYMPIA	[illegible]	59	101
QUILLAYUTE	1	6	8
SEATTLE	17	120	183
SEATTLE-TACOMA	39	197	129
SPOKANE	20	340	388
STAMPEDE PASS R	1	36	16
WALLA WALLA U	103	795	856
YAKIMA	22	484	479
WEST INDIES			
SAN JUAN P.R.	521	4273	3721
WEST VIRGINIA			
BECKLEY	37	547	484
CHARLESTON	82	1063	1036
ELKINS	27	397	389
HUNTINGTON	100	1255	1078
PARKERSBURG U	53	1038	1025
WISCONSIN			
GREEN BAY	5	512	386
LA CROSSE	16	799	683
MADISON	16	721	454
MILWAUKEE	15	577	444
WYOMING			
CASPER	5	394	458
CHEYENNE	10	193	327
LANDER	14	332	383
SHERIDAN	10	293	446

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

AUGUST 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	MISSOURI BASIN		
James, Big Sioux and Floyd River Basin	The rural flooding which had continued along the Columbia to Stratford reach in South Dakota since May ended at Columbia on the 23d but continued into September at Stratford. Isolated heavy thunderstorms during August caused urban flooding in Sioux Falls, SD, on the 1st and 23d. Sharp rises occurred on the Big Sioux and Floyd Rivers during the month, but no flooding resulted.	0	N.A.
Little Sioux River	Slowly moving thunderstorms produced rainfalls of 5 to 6 inches over northwest Iowa on the 18th. Additional amounts of 3 to 4.5 inches fell on the 21st to 22d. The only flooding reported, however was on the Little Sioux River, which crested 0.5 foot over flood stage at Spencer on the 23d.	0	N.A.
Platte River Basin	Isolated thunderstorms caused local flooding in several places in the headwaters of the South Platte River with rather extensive agricultural damage over limited areas. No details are available. A thunderstorm on the 29th produced 3.5 inches of rain at Ashland, NE, in a short period. About 1,500 feet of U. S. Highway 6 was covered with up to 2.5 feet of water in the vicinity of Lanoma Beach.	0	N.A.
Republican River Basin	Flash flooding took two lives in northwestern Kansas on the 1st. Two small children drowned when the car in which they were riding was washed off a bridge over Sappa Creek 7 miles northeast of Oberlin, KS. Rains in excess of 3 inches over the Sappa Creek Basin caused the flooding.	2	N.A.
Missouri River Main Stem	The Missouri River continued over flood stage the entire month at Williston, ND, as the elevation of the pool behind Garrison Dam remained high. Excessive releases from Gavins Point Reservoir flooded 2,100 acres of lowland between Ponca and Omaha, NE, and 250 acres between Omaha and Rulo, NE, during August.	0	N.A.
	OHIO BASIN		
Monongahela River Basin	Two periods of heavy thunderstorm activity occurred during August. Rainfall of up to over 2 inches on the 13th followed by amounts of 3.5 to 4 inches on the 15th-16th caused significant small stream flooding over the headwaters of the basin. Lowland flooding was reported along the West Fork River from Clarksburg to Fremont, WV. No reporting stations went over flood stage. Amounts of 2.5 to 3.5 inches occurred on the 30th-31st, but no flooding was reported.	0	N.A.
Kanawha River Basin	Heavy rainfall on the 31st caused small stream	0	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

AUGUST 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	OHIO BASIN-Cont'd		
	flooding in Greenbriar County. Ronceverte, WV, reported an unofficial total of 6 inches during the afternoon. This storm was very localized and only a minor rise resulted on the Greenbriar River.		
Licking River Basin	Flash flooding took one life on the 10th. A three-year old boy drowned when the car in which he was riding was washed off the Morning Glory Road Bridge across Bobtown Creek in western Nicholas County, KY. The stream rose about 8 feet in 10 minutes in response to rainfall estimated at 4.5 inches in 30 minutes. The nearest rainfall station at Cynthiana, 5 miles west of the site, reported 2 inches for the period.	1	N.A.
Salt River Basin	Flash flooding was reported on Rock Run and Glens Creek in Washington County, Kentucky, on the 10th. No details are available.	0	N.A.
	WHITE BASIN		
Cache River	Rainfall was much above normal over the basin during August and fell mostly during three periods - the 1st-4th, 17th-19th, and 27th-31st. The Cache River was at or over flood stage the entire month except for two brief periods and flooding continued into September. Damage was agricultural with some soybean crops lost.	0	N.A.
	LOWER MISSISSIPPI BASIN		
Mississippi River Main Stem	Urban and flash flooding struck portions of Mississippi bordering the River on the 1st as a result of 24-hour rainfall amounts of up to 6 inches. Urban flooding in and around Vicksburg necessitated some evacuations, and U. S. Highway 61 north of Vicksburg was closed for a time by 4 to 6 feet of water. Flash flooding damaged the State Route 33 Bridge over the Homachito River.	0	N.A.
	WEST GULF OF MEXICO DRAINAGE		
Mermentau and Calcasieu Rivers	Monthly rainfall totals ranged from 5 to 12 inches over these river basins. Most of this rain occurred during the first week of the month and resulted in flooding on the Mermentau and Upper Calcasieu Rivers. About 3 feet of flooding occurred on the Calcasieu at Hineston, LA, and one foot at Mermentau, LA, on the Mermentau River.	0	N.A.
Neches and Trinity River Basins	Rainfall of 2 to 5 inches the first ten days of the month, with heavier amounts generally along the coast, caused 2 to 3 feet of flooding on the Village Creek and Pine Island Bayou tributaries of the Neches River. A crest occurred on the Trinity River at Moss Bluff, TX, of 1.5 feet	0	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

AUGUST 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	WEST GULF OF MEXICO DRAINAGE-Cont'd		
	over flood stage. Lowland flooding was reported on the Neches River at Evadale, TX, and on the Trinity River at Liberty, TX, but flood stage was not exceeded at those points.		
Rio Grande Basin	Several instances of urban and/or flash flooding occurred in the New Mexico portion of the basin during August. The most extensive damage occurred in Corrales (Sandoval) on the 13th when an official rainfall amount of 2 inches caused flooding which was compounded by a break in the irrigation ditch. It was reportedly the worst flooding there since 1929. Urban flooding was reported in Las Cruces on the 3d, in portions of Albuquerque on the 8th, 12th, and 21st, and in Gallup, Chimayo, and Sante Fe County on the 12th. Flash flooding was reported in Cuarleles on the 16th. No river flooding resulted from these localized storms.	0	N.A.
	PUERTO RICO		
	August was marked by the passage of several easterly waves across Puerto Rico, which brought on moderate to heavy showers and thundershowers over much of the western and southern sections of the island. No flooding occurred during the month although saturated soil conditions in the western region brought on rapid surface runoff and some ponding in low lying areas. Soil moisture deficiencies in the southern and northern divisions continued to average around five to six inches. Moderate agricultural drought conditions predominated in the southern division while most other zones were near normal. Meteorological drought was severe in parts of the interior and the north coast and moderate in most other zones. In general the month of August had near normal rainfall in all but the southern zones where more rain is needed for agricultural work.	0	0

FLOOD STAGE DATA

[illegible]

[illegible]	[illegible]	[illegible]				[illegible]		
	Ft					Ft		
[illegible]								
[illegible]:								
[illegible]			[illegible]		1	5.92		31
[illegible]:								
[illegible]			30		[illegible]	12.75	Sept	
[illegible]:								
Whitehall, MI	[illegible]		30		[illegible]	7.46	[illegible]	1
[illegible]:								
Eaton Rapids, MI	[illegible]		30	Sept	1	[illegible]		
[illegible]:								
Detroit, MI	15		31	Sept	1	[illegible]		[illegible]
[illegible]								
Scajaquada Creek:								
[illegible]	[illegible]		30		30	E11.0		[illegible]
Cayuga Creek:								
[illegible]	8		30		[illegible]	9.5		30
[illegible]								
[illegible]:								
[illegible]	2.8		[illegible]		16	2.97		16
[illegible]:								
Williamston, NC	10	[illegible]	[illegible]		19	11.1	Jul	25-10
Neuse:								
[illegible]	1[illegible]	Jul	22		1	18.9	Jul	[illegible]
Lumber:								
Lumberton, NC	[illegible]	Jul	15		3	12.6	[illegible]	22,26
[illegible]								
Apalachicola:								
Blountstown, FL	15	Jul	31 [illegible] 1[illegible]		3 10 1[illegible]	18.19 16.78 16.19		2 9 [illegible]
Choctawhatchee:								
[illegible]	[illegible]		1		[illegible]	26.04		3
Caryville, FL	12	Jul	31		[illegible]	[illegible]		3
Shoal:								
Mossy Head, FL	[illegible]		[illegible]		[illegible]	22.71	Jul	31
Crestview, FL	[illegible]		[illegible]		[illegible]	15.58		1
Yellow:								
Milligan, FL	12	Jul	31		[illegible]	16.0		1
Big Coldwater:								
Milton, FL	[illegible]		[illegible]		[illegible]	20.56		1
Blackwater:								
[illegible]	[illegible]		[illegible]			22.97	[illegible]	31
Murder Creek:								
[illegible]	8		[illegible]		[illegible]	16.7		1
Conecuh:								
[illegible]	17		[illegible]			18.1		2
Escambia:								
Flomaton, AL	[illegible]		[illegible]		[illegible]	18.0		[illegible]
[illegible]	[illegible]		1		16	22.5		[illegible]
Perdido.								
[illegible]	1[illegible]					19.41		
[illegible]								
[illegible]	14					14.2		
Pearl:								
Carthage, MS	1[illegible]					17.0		
[illegible]	[illegible]					[illegible]		[illegible]

[illegible]	[illegible]	[illegible]		To	[illegible]	Date	
	Ft				Ft		
EAST GULF OF MEXICO DRAINAGE-Cont'd							
Pearl-Continued:							
[illegible]	19		2	13	[illegible]		2
[illegible]	15		1	20	19.02		[illegible]
[illegible]	12		E 3	19	14.42		[illegible]
Upper Mississippi Basin							
Trempealeau River:							
[illegible]			24 [illegible]	[illegible] 26	11.4 E10.4		24 [illegible]
[illegible]:							
[illegible]	12		27	27	17.02		2[illegible]
[illegible]							
James River:							
[illegible]	11	May	4	[illegible]	A15.4	[illegible]	[illegible]
Stratford, SD	14		[illegible]	[illegible]	A16.5		
Little Sioux River:							
[illegible]	1[illegible]		23	23	10.5		
Missouri River:							
[illegible]	20	Jun	10		24.8	Jul	21
White Basin							
Cache:							
Patterson, AR			1 5 1	3 17 	7.0 7.5 8.4		1 10 27
WEST GULF OF MEXICO DRAINAGE							
[illegible]:							
Mermentau, LA	[illegible]		[illegible]	9	6.00		[illegible]
Calcasieu:							
Hineston, LA	[illegible]		3	[illegible]	14.90		6
Village Creek:							
[illegible]	12		1	11	15.19		
Pine Island Bayou:							
Sour Lake, TX	25		4	12	26.90		
Trinity:							
[illegible]	4		5	11	∅ 5.50		7,8,9

A See Previous Monthly Reports for Additional Crest Information.

B In Flood at Beginning of Month - Date Unknown.

RAWINSONDE DATA

Average monthly values

AUGUST 1975

ALBANY, NY
1008 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	27	86	16.1	14.8	27	[illegible]
1000	27	157	16.7	13.2	30	.8
950	27	595	16.5	10.9	33	2.0
900	27	[illegible]	14.6	8.2	33	[illegible]
850	27	1,537	11.8	[illegible]	32	5.4
800	27	2,042	9.6	.4	30	6.4
750	27	2,576	7.7	-3.5	30	8.2
700	27	3,143	5.3	-9.1	29	9.3
650	27	3,745	2.2	-11.5	29	9.9
600	27	4,387	-1.5	-16.0	29	11.4
550	27	[illegible]	-5.4	-20.8	29	13.2
500	27	5,816	-10.2	-24.7	28	14.9
450	27	6,620	-15.1	-28.8	28	16.4
400	27	[illegible]	-21.0	-34.8	28	17.8
350	27	8,476	-28.0	-40.4	28	18.8
300	27	9,561	-36.8	-48.0	28	21.7
250	27	10,799	-45.9		28	[illegible]
200	27	12,252	-55.4		28	[illegible]
175	27	13,096	-58.9		28	26.1
150	27	[illegible]	-61.2		28	22.8
125	27	15,186	-62.1		29	17.9
100	27	16,567	[illegible]		[illegible]	11.1
80	27	17,959	-58.9		30	[illegible]
70	27	18,800	-57.5		[illegible]	2.9
60	27	19,778	[illegible]		04	2.2
50	27	20,943	-54.0		07	3.5
40	27	22,383	-52.0		08	6.2
30	[illegible]	24,254	-49.7		09	8.3
25	25	25,452	-47.9		09	10.9
20	23	26,930	-45.9		08	10.9
15	18	28,857	-43.8		[illegible]	12.5
10	7	31,605	-39.8			

ALBUQUERQUE, NM
841 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	31	1,619	18.1	9.5	[illegible]	.9
1000						
950						
900						
850						
800	31	2,048	18.3	5.4	16	1.2
750	31	[illegible]	15.5	2.2	25	2.3
700	31	3,180	11.4	-1.7	26	3.2
650	31	3,795	6.7	-4.3	27	3.6
600	31	4,446	1.4	-6.7	27	3.7
550	31	5,141	-3.4	-11.6	26	3.5
500	31	5,888	-8.1	-17.9	26	[illegible]
450	31	6,700	-12.6	-24.4	26	4.1
400	31	7,590	-18.1	-30.8	27	5.5
350	31	8,577	-25.2	-36.8	27	6.4
300	31	9,674	-33.8	-44.5	27	7.6
250	31	10,926	-43.5		27	9.5
200	31	12,392	-54.2		27	10.8
175	31	13,237	-59.8		27	10.6
150	31	14,188	-65.4		[illegible]	7.7
125	30	15,285	-69.9		27	6.5
100	30	16,615	-69.0		29	1.6
80	29	17,957	-65.9		09	2.2
70	28	[illegible]	-62.5		[illegible]	4.0
60	27	19,733	-60.5		[illegible]	7.1
50	[illegible]	20,874	-58.4		09	[illegible]
40	26	22,288	-56.0		09	12.1
30	26	24,131	-53.0		09	14.8
25	25	25,313	-51.1		[illegible]	16.4
20	22	26,774	-48.7		09	17.5
15	[illegible]	28,672	-45.9		09	20.6
10	13	31,408	-41.9		09	26.9
7	5	[illegible]	-38.0			

AMARILLO, TX
893 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	31	1,095	18.5	14.0	[illegible]	3.3
1000						
950						
900						
850	31	1,522	20.4	11.0	[illegible]	8.9
800	31	2,044	18.3	5.8	[illegible]	6.5
750	31	2,594	15.0	1.5	23	3.7
700	[illegible]	3,174	10.8	-3.0	24	1.0
650	31	3,787	[illegible]	-5.9	17	.5
600	31	4,438	1.7	-9.2	09	.8
550	31	5,134	-3.0	-14.3	05	.5
500	[illegible]	5,882	-7.4	-21.5	25	.8
450	30	6,695	-12.5	-26.3	27	1.4
400	30	7,584	-18.7	-33.1	27	2.2
350	30	8,568	-25.8	-37.9	29	4.0
300	30	9,664	-34.2	-46.0	30	5.8
250	[illegible]	10,914	-43.9		30	7.2
200	30	12,377	-54.6		29	8.3
175	30	13,221	-60.2		[illegible]	7.7
150	30	14,169	-65.9		29	7.5
125	30	15,264	-69.8		29	4.8
100	30	15,593	-69.0		[illegible]	.5
80	30	17,938	-65.0		09	2.3
70	30	18,758	-62.4		09	4.8
60	29	19,716	-60.1		09	[illegible]
50	28	20,858	-57.8		09	9.1
40	27	22,275	-55.7		[illegible]	11.2
30	27	24,123	[illegible]		09	15.1
25	27	25,311	-49.6		09	16.0
20	27	26,783	-46.7		09	16.6
15	26	28,705	-43.7		09	20.0
10	11	31,467	-39.5			

* ANCHORAGE, AK
1009 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	31	45	12.1	7.3	17	1.5
1000	31	118	12.1	7.4	17	1.5
950	31	548	10.5	5.0	18	1.5
900	31	996	7.9	2.5	17	.5
850	31	1,465	4.9	-.3	14	.9
800	31	1,958	1.9	-2.8	14	.9
750	31	2,476	-1.1	-5.1	18	.2
700	31	3,023	-4.1	[illegible]	21	.2
650	31	3,605	-7.4	-16.2	28	.2
600	31	4,224	-11.0	-19.2	34	.8
550	31	4,887	-15.4	-23.6	35	.9
500	31	5,600	-20.1	-29.8	34	1.4
450	31	6,373	[illegible]	-34.6	33	2.2
400	31	[illegible]	-31.8	-41.9	32	3.5
350	31	8,150	-38.8	-42.3	32	4.3
300	31	9,187	-46.5		32	5.2
250	31	10,382	-51.3		33	6.9
200	31	11,838	-49.2		32	6.3
175	31	12,713	[illegible]		31	6.1
150	31	13,723	-49.8		31	5.3
125	[illegible]	14,915	-50.2		31	4.3
100	30	16,373	-50.2		30	3.2
80	30	17,832	-49.6		31	2.5
70	30	18,707	-49.6		31	2.1
60	30	19,718	-49.1		32	1.3
50	28	20,914	-49.0		33	1.4
40	28	22,381	-48.6		02	1.0
30	[illegible]	24,278	-47.6		05	2.2
25	27	25,483	-46.9		06	2.1
20	27	26,967	-45.8		07	2.5
15	[illegible]	28,893	-43.3		07	2.0
10	20	31,656	-39.1		07	3.0
7	7	34,015	-37.6			

* ANNETTE, AK
1011 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	31	37	10.8	9.7	[illegible]	1.0
1000	30	135	10.8	8.9	[illegible]	1.1
950	31	558	8.9	6.2	15	2.4
900	31	1,004	6.6	3.2	17	3.6
850	31	1,471	3.7	-.7	17	3.6
800	31	1,962	1.1	-4.3	17	3.3
750	31	2,479	-1.4	-8.1	18	2.6
700	31	3,026	-4.3	-12.8	18	2.6
650	31	3,607	-7.5	-17.0	20	3.3
600	31	4,226	-11.3	-21.1	21	3.5
550	31	4,888	-15.5	-26.1	23	3.9
500	31	5,601	-20.2	-31.1	24	4.5
450	31	6,374	-25.5	-36.9	25	5.5
400	31	7,218	-31.6	-41.8	26	6.5
350	31	8,151	-38.8	-46.5	26	7.8
300	31	9,190	-46.3		27	10.3
250	31	10,384	-51.8		28	11.6
200	31	11,834	-50.7		28	10.6
175	31	12,705	-50.3		28	8.9
150	31	13,711	-50.8		28	7.4
125	31	14,897	-51.3		28	6.5
100	31	16,346	-51.5		28	5.1
80	31	17,797	-51.1		27	3.4
70	31	18,666	-50.8		27	2.3
60	31	19,671	[illegible]		28	1.9
50	31	20,859	-50.4		32	.8
40	31	22,317	-50.0		06	.7
30	30	24,203	-48.7		07	1.8
25	30	25,403	-47.9		08	2.2
20	29	26,882	-46.0		09	2.8
15	27	28,802	-43.7		09	3.4
10	21	31,551	-40.3		08	4.4

ATHENS, GA
991 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	[illegible]	246	21.4	[illegible]	[illegible]	.4
1000						
950	31	611	22.4	17.9	28	.4
900	31	1,080	19.6	15.5	25	1.7
850	31	1,571	16.5	11.5	23	1.9
800	[illegible]	[illegible]	13.7	7.3	[illegible]	2.0
750	[illegible]	2,627	10.4	3.8	[illegible]	2.0
700	31	[illegible]	7.0	[illegible]	[illegible]	2.3
650	31	[illegible]	3.9	-4.8	22	[illegible]
600	31	4,452	.3	-10.3	23	3.4
550	31	5,146	-3.5	-14.0	[illegible]	[illegible]
500	31	5,893	-7.5	-21.1	23	4.1
450	31	6,706	-12.7	-25.3	23	4.1
400	[illegible]	7,595	-18.7	-30.7	24	3.9
350	31	8,580	-25.6	-39.2	24	3.7
300	31	9,674	-34.6	-48.0	23	2.9
250	[illegible]	10,922	-44.8		23	2.3
200	[illegible]	12,378	-55.8		28	[illegible]
175	31	13,218	-61.2		30	[illegible]
150	31	14,163	-66.1		[illegible]	[illegible]
125	31	15,258	-69.3		[illegible]	2.8
100	31	16,592	-68.3		[illegible]	3.1
80	30	17,943	-64.7		07	5.1
70	30	18,763	-62.6		07	[illegible]
60	30	19,719	-60.4		08	9.0
50	[illegible]	20,861	-58.3		[illegible]	11.5
40	30	22,273	-55.9		09	13.8
30	[illegible]	[illegible]	-52.8		09	16.0
25	[illegible]	25,298	-50.8		[illegible]	17.6
20	27	26,758	-48.0		09	18.4
15	24	28,660	-46.1		09	21.7
10	8	31,369	-40.5			

* BARROW, AK
[illegible] MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	[illegible]	[illegible]	.7	.4	09	.9
1000	[illegible]	117	[illegible]	-.7	[illegible]	.9
950	28	519	3.9	-1.6	[illegible]	1.2
900	28	959	3.6	-4.3	23	2.3
850	28	1,422	1.9	-5.9	[illegible]	3.3
800	[illegible]	1,910	.3	-11.6	[illegible]	3.6
750	28	2,425	-2.1	-13.7	26	4.2
700	28	2,970	-5.3	-15.5	26	4.7
650	28	3,549	-8.3	-19.2	26	5.9
600	28	4,167	-11.9	-22.3	26	6.5
550	28	4,828	-15.8	-26.5	26	6.7
500	28	5,540	-20.7	-31.2	26	7.0
450	28	6,311	-26.0	-37.7	27	7.3
400	28	7,153	-32.1	-42.9	27	7.9
350	28	8,084	-39.0	-48.4	27	7.7
300	27	9,121	-46.6		[illegible]	8.4
250	27	10,314	-52.4		27	7.9
200	26	11,768	-49.0		27	[illegible]
175	26	12,647	-48.2		28	7.9
150	25	13,664	-47.8		[illegible]	[illegible]
125	24	14,866	-47.8		28	6.1
100	24	16,339	-47.6		29	4.3
80	[illegible]	17,815	-47.5		30	3.0
70	22	18,702	-46.9		30	2.7
60	22	19,725	-46.9		31	2.8
50	21	20,933	-46.5		34	1.4
40	[illegible]	22,414	-46.3		01	1.7
30	17	24,342	-44.6		[illegible]	[illegible]
25	15	25,579	-43.9		04	2.5
20	11	27,073	-42.6		06	3.1

BARTER ISLAND, AK
1011 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	30	[illegible]	1.6	.8	12	.4
1000	28	110	2.8	.9	12	[illegible]
950	30	518	5.7	1.4	26	2.8
900	30	961	[illegible]	-.3	26	4.6
850	30	[illegible]	3.3	-3.0	26	6.2
800	30	1,916	.7	-5.5	27	7.2
750	30	2,432	-2.5	-9.3	27	7.8
700	[illegible]	2,976	-5.7	-13.8	27	7.3
650	30	3,554	-8.7	-17.6	[illegible]	7.0
600	30	4,170	-12.2	-22.1	[illegible]	7.2
550	30	4,830	-16.4	-26.5	27	7.3
500	30	5,541	-21.2	-30.4	28	7.3
450	30	6,310	-26.4	-36.0	28	8.1
400	30	7,151	-32.7	-42.9	28	8.2
350	30	8,081	-39.6	-47.9	29	8.8
300	30	9,115	-47.3		[illegible]	9.6
250	29	10,303	-52.1		29	10.8
200	29	11,754	-48.9		29	9.2
175	29	12,633	-47.8		29	8.4
150	29	13,651	-47.7		29	6.9
125	29	14,856	-47.6		30	5.4
100	29	16,331	-47.6		29	4.8
80	29	17,807	-47.1		30	3.4
70	29	18,693	-46.8		[illegible]	[illegible]
60	29	19,715	-46.6		33	[illegible]
50	29	20,927	-46.2		35	1.8
40	29	22,410	-46.1		02	1.7
30	29	24,330	-44.9		05	1.6
25	26	25,557	-44.2		05	2.5
20	25	27,054	-43.0		05	3.3
15	23	28,992	-41.1		07	3.3
10	17	31,792	-36.3		07	2.8

BETHEL, AK
1009 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	[illegible]	39	10.0	[illegible]	27	1.6
1000	30	[illegible]	11.0	8.8	28	1.7
950	31	[illegible]	[illegible]	5.3	[illegible]	[illegible]
900	31	[illegible]	7.1	1.4	22	1.1
850	31	1,460	4.7	-1.8	27	1.0
800	31	1,953	2.3	-5.6	26	1.2
750	31	[illegible]	-.2	-8.8	26	2.1
700	31	3,022	-3.0	-13.3	27	1.6
650	31	3,606	-6.0	-18.5	27	1.8
600	31	4,228	-9.6	-21.6	28	2.3
550	31	4,895	-13.8	-24.1	28	2.2
500	[illegible]	5,612	-18.6	-30.4	30	2.1
450	[illegible]	6,390	-23.8	-35.9	32	2.4
400	31	7,239	-30.2	-41.0	33	2.9
350	31	8,178	-37.3	-44.7	34	3.4
300	31	9,222	-45.2		33	4.0
250	31	10,420	-51.3		33	4.2
200	31	11,874	-50.8		[illegible]	4.4
175	[illegible]	12,748	-50.0		31	4.8
150	[illegible]	13,754	-50.8		31	4.6
125	30	14,941	-50.9		31	4.5
100	30	16,395	-50.8		[illegible]	4.1
80	30	17,850	-50.1		[illegible]	3.0
70	29	18,720	-49.7		33	1.6
60	28	19,729	-49.2		35	1.1
50	[illegible]	20,926	-48.7		03	1.1
40	28	22,392	-48.4		03	1.0
30	28	24,290	-47.0		06	1.9
25	28	25,498	-46.4		[illegible]	2.3
20	26	26,984	-45.3		07	2.5
15	20	28,913	-43.4		07	2.9
10	5	31,596	-39.6			

* BISMARCK, ND
955 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	31	503	14.3	10.1	07	.1
1000						
950	25	565	14.4	9.8	10	.3
900	31	1,009	16.4	5.9	23	2.4
850	31	1,495	15.2	2.9	26	4.1
800	31	2,006	12.2	.3	27	5.9
750	31	2,544	9.2	-2.9	27	8.3
700	31	3,112	5.0	-5.6	27	10.0
650	31	3,713	1.3	-9.2	27	11.1
600	31	4,352	-2.9	-14.9	27	13.6
550	31	5,036	-7.6	-18.7	27	15.2
500	31	5,770	-12.7	[illegible]	27	15.9
450	31	6,567	-17.9	-30.7	27	16.8
400	30	7,436	-24.3	-35.7	[illegible]	18.7
350	30	8,398	-31.6	-42.7	27	20.3
300	30	9,467	-40.1	-50.3	27	21.6
250	30	10,688	-48.4		27	26.8
200	30	12,139	-53.9		26	29.1
175	30	12,992	-55.8		26	27.2
150	30	13,970	-57.5		26	24.2
125	30	15,118	-58.5		27	17.8
100	30	16,520	[illegible]		27	11.1
80	30	17,928	-57.3		26	5.4
70	30	18,775	-56.0		27	2.9
60	30	19,759	-54.7		28	1.1
50	30	20,929	-53.2		08	1.0
40	29	22,375	-51.6		08	2.4
30	28	24,254	[illegible]		08	5.3
25	26	[illegible]	[illegible]		09	6.0
20	24	26,924	-45.4		09	6.7
15	20	28,854	-43.1		09	7.3
10	16	31,602	-40.5		09	9.9
7	6	34,035	-36.6			

BOISE, ID
915 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	31	[illegible]	15.0	4.4	14	1.2
1000						
950						
900	31	1,011	17.5	3.6	[illegible]	.2
850	31	[illegible]	17.3	.1	[illegible]	2.2
800	31	2,014	14.0	-2.2	[illegible]	2.6
750	31	2,555	10.0	-4.2	26	3.9
700	31	3,123	5.7	-6.5	26	[illegible]
650	[illegible]	3,726	1.5	-9.7	25	[illegible]
600	[illegible]	4,365	-2.6	-13.1	25	10.4
550	31	5,050	-7.2	-19.4	24	12.1
500	31	5,785	-12.3	-25.2	24	13.2
450	[illegible]	6,585	-17.7	-30.9	25	14.6
400	[illegible]	[illegible]	-23.9	-37.5	25	16.1
350	[illegible]	[illegible]	-31.1	-43.8	25	18.0
300	29	9,489	-39.4	-50.0	25	21.8
250	29	10,713	-48.0		25	24.9
200	29	12,162	-54.0		[illegible]	25.6
175	29	13,016	-56.1		25	[illegible]
150	29	13,990	-58.6		25	21.4
125	29	15,131	-60.2		25	16.5
100	29	16,521	-60.3		25	[illegible]
80	29	17,916	-58.9		25	[illegible]
70	29	18,757	-57.4		[illegible]	1.6
60	29	19,734	-56.4		[illegible]	.6
50	29	20,896	-55.1		09	1.7
40	29	22,327	-53.5		08	[illegible]
30	29	[illegible]	-51.1		09	7.1
25	[illegible]	25,381	-49.6		09	7.8
20	27	[illegible]	-47.6		08	[illegible]
15	25	28,768	-45.1		09	11.8
10	[illegible]	[illegible]	-41.0		09	11.6
7	[illegible]	33,889	-38.6			

BOOTHVILLE, LA
[illegible] MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	[illegible]	1	25.9	23.8	17	.7
1000	[illegible]	152	25.7	22.7	[illegible]	1.5
950	30	603	22.9	19.7	[illegible]	2.7
900	[illegible]	1,074	19.9	15.6	17	2.9
850	30	1,565	16.8	11.8	18	3.0
800	30	2,080	14.1	[illegible]	18	3.0
750	30	2,623	11.1	4.1	17	2.4
700	30	3,196	7.6	1.0	[illegible]	1.8
650	30	3,804	4.3	-2.1	16	1.4
600	30	4,452	.7	-6.8	16	.9
550	[illegible]	5,146	-3.1	-12.0	17	.9
500	[illegible]	5,894	-7.7	-16.2	17	.4
450	[illegible]	6,705	-12.8	-21.6	17	.8
400	28	7,594	-18.6	-28.8	13	.8
350	28	8,580	-25.5	-37.1	15	.7
300	[illegible]	9,676	-34.0	-45.9	[illegible]	.4
250	[illegible]	10,925	-44.4		04	.4
200	27	12,382	-55.9		02	1.8
175	27	13,220	-61.5		03	3.2
150	27	14,163	-67.1		05	5.1
125	27	15,254	-70.2		06	5.1
100	27	16,579	-69.9		07	6.4
80	[illegible]	[illegible]	-66.8		08	8.2
70	25	[illegible]	-64.3		08	10.3
60	24	19,676	-62.3		08	12.1
50	24	20,809	-59.9		08	14.7
40	24	22,211	-57.7		09	17.3
30	[illegible]	24,044	-54.1		09	20.5
25	20	25,220	-52.0		09	20.9
20	18	26,676	-48.4		09	[illegible]
15	16	28,583	-45.1		08	25.2
10	7	31,303	-42.6			

* BROWNSVILLE, TX
1014 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	31	7	24.5	22.7	14	1.0
1000	31	131	26.0	24.0	16	3.0
950	31	583	23.1	20.5	16	6.9
900	31	1,054	[illegible]	15.7	16	7.1
850	31	1,547	17.8	11.4	15	6.5
800	31	2,064	15.0	8.0	15	5.8
750	31	2,608	12.0	[illegible]	[illegible]	4.6
700	31	3,183	8.6	-.4	14	3.9
650	31	[illegible]	5.0	-3.5	13	3.6
600	31	4,442	1.2	-6.2	11	3.1
550	31	5,137	-2.8	-11.4	10	2.9
500	31	5,887	-7.2	-17.3	09	3.3
450	31	6,701	-12.3	-22.4	08	3.4
400	31	7,592	-17.9	-28.4	09	3.7
350	31	8,579	-24.9	-35.2	08	3.4
300	31	9,679	-33.3	-45.0	08	3.1
250	31	10,932	-43.6		08	3.3
200	31	12,392	-55.9		03	3.0
175	31	13,230	-62.1		04	4.4
150	31	14,169	-67.7		05	6.0
125	31	15,253	-72.1		06	7.3
100	31	16,569	-70.9		07	8.6
80	30	17,901	-68.0		09	10.4
70	30	18,708	[illegible]		09	11.7
60	30	19,649	-63.8		08	14.1
50	29	20,777	-60.8		09	16.6
40	29	22,174	-58.3		09	19.2
30	[illegible]	23,998	[illegible]		09	20.6
25	25	25,179	-51.0		09	20.5
20	22	26,646	-48.3		08	23.4
15	15	28,558	-45.4		09	26.4

BUFFALO, NY
993 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	31	218	17.4	14.8	17	1.0
1000						
950	31	[illegible]	18.3	11.9	28	2.1
900	31	1,059	15.8	9.5	29	3.2
850	31	1,543	13.1	6.1	29	4.9
800	31	2,051	10.9	.1	28	6.8
750	31	2,587	8.5	-3.9	28	8.5
700	31	3,155	5.3	-6.4	29	9.5
650	31	3,757	2.1	-9.8	28	9.9
600	30	4,399	-1.2	-14.4	28	11.0
550	30	5,088	-5.1	-19.3	28	12.2
500	30	5,830	-9.7	-24.1	28	13.3
450	30	6,636	-14.8	-29.1	27	14.3
400	29	7,517	-21.0	-32.6	28	15.6
350	27	8,491	-28.3	-38.7	28	17.4
300	[illegible]	9,575	-36.7	-47.5	28	18.1
250	27	10,813	-45.9		28	21.4
200	27	12,265	-55.2		29	23.7
175	[illegible]	13,110	-58.5		29	21.4
150	26	14,075	-61.2		28	17.4
125	26	15,203	-62.4		29	13.7
100	[illegible]	16,584	-61.0		29	8.9
80	26	17,976	-58.9		31	4.4
70	26	18,818	-56.9		34	2.1
60	26	19,798	-55.6		05	2.0
50	26	20,964	-53.8		08	4.4
40	26	22,405	-51.7		09	7.2
30	24	24,282	-49.4		08	9.1
25	22	25,484	-47.4		09	10.6
20	19	26,979	-45.2		09	11.7
15	12	28,938	-42.6		09	16.0

CAPE HATTERAS, NC
1018 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	31	4	24.4	22.2	[illegible]	1.1
1000	31	163	25.0	21.0	30	2.3
950	31	613	22.5	17.2	30	3.7
900	31	1,082	19.9	12.4	30	3.3
850	31	1,573	16.7	8.3	30	3.2
800	31	2,088	14.0	4.3	29	3.3
750	31	2,630	11.2	-.5	28	3.9
700	31	3,203	8.1	-4.0	27	4.3
650	31	3,811	4.5	-7.9	28	4.6
600	31	4,459	.9	-14.0	28	4.9
550	31	5,153	[illegible]	-18.6	27	4.7
500	31	5,902	-7.2	-22.9	28	4.9
450	31	6,716	-12.1	-28.1	29	4.8
400	31	7,607	-18.1	-34.8	29	4.3
350	31	8,594	[illegible]	-40.3	29	4.5
300	31	9,691	-33.8	-47.0	29	5.0
250	31	10,943	-44.0		28	4.9
200	31	12,402	-55.6		28	4.5
175	31	13,242	-61.2		29	4.5
150	31	14,187	-66.4		31	4.1
125	31	15,283	-68.7		32	3.1
100	31	16,625	-66.6		01	1.8
80	31	17,985	-63.8		06	3.8
70	31	18,809	-61.4		07	5.7
60	31	19,768	-59.8		08	7.4
50	31	20,915	-57.2		08	10.4
40	29	22,332	-54.7		09	12.9
30	28	24,189	-50.7		09	15.1
25	27	25,380	-49.1		09	15.7
20	26	26,853	-47.1		09	17.5
15	22	28,773	-45.0		09	20.7

RAWINSONDE DATA

Average monthly values

* **CARIBOU, ME** 993 MB

	No. of observations	Height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s
SFC	31	191	13.7	10.3	25	[illegible]
1000						
950	31	[illegible]	14.5	6.8	30	3.1
900	31	1,020	12.4	4.4	31	4.1
850	31	1,497	9.5	2.5	30	4.9
800	31	[illegible]	5.9	-1.4	30	[illegible]
750	31	2,527	4.5	-6.3	30	7.5
700	31	3,087	1.6	-10.0	30	[illegible]
650	31	3,681	-1.6	-14.7	30	9.7
600	31	4,314	-5.2	-19.3	30	10.4
550	31	4,992	-9.4	-23.2	30	12.5
500	31	5,723	-13.6	-28.5	29	14.2
450	31	6,517	-18.4	-32.6	29	16.0
400	31	7,385	-24.7	-38.5	29	17.0
350	31	8,346	-31.8	[illegible]	29	19.0
300	31	9,415	-40.0	-48.7	28	20.5
250	31	10,637	-48.3		29	[illegible]
200	31	12,089	-52.8		28	23.2
175	31	[illegible]	-54.8		28	21.0
150	31	13,928	-56.9		28	18.2
125	31	15,082	-57.1		28	13.9
100	[illegible]	16,495	-56.5		28	9.1
80	[illegible]	[illegible]	-55.4		29	[illegible]
70	[illegible]	[illegible]	-54.5		30	2.9
60	[illegible]	19,759	-53.7		[illegible]	1.0
50	[illegible]	20,935	-52.0		[illegible]	1.9
40	[illegible]	22,381	-50.5		09	[illegible]
30	[illegible]	24,263	-48.7		[illegible]	5.7
25	[illegible]	25,464	-47.7		09	6.7
20	[illegible]	26,947	-45.7		09	[illegible]
15	[illegible]	28,878	-42.9		09	9.5

CENTREVILLE, AL 1003 MB

	No. of observations	Height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s
SFC	[illegible]	140	21.3	20.7	08	1.0
1000	25	169	21.7	20.4	08	1.3
950	[illegible]	[illegible]	22.4	17.9	20	2.9
900	30	1,080	19.6	14.4	21	3.7
850	30	1,570	16.4	10.9	[illegible]	3.8
800	[illegible]	2,085	13.6	6.9	22	3.3
750	30	2,626	10.4	3.8	23	2.7
700	[illegible]	3,198	7.1	-.7	[illegible]	2.6
650	30	3,805	3.9	-4.3	[illegible]	2.7
600	[illegible]	4,452	.5	-9.4	22	2.3
550	30	5,145	-3.3	-14.9	23	2.7
500	[illegible]	5,894	-7.7	-19.7	[illegible]	2.7
450	[illegible]	6,706	-12.8	-25.4	23	2.7
400	[illegible]	7,594	-18.9	-31.6	24	2.3
350	30	8,578	-25.8	-38.5	[illegible]	2.3
300	30	9,672	-34.5	-46.5	26	[illegible]
250	30	10,921	-44.4		26	2.5
200	30	12,380	-55.4		31	2.1
175	30	13,221	-60.6		35	2.4
150	30	14,169	-65.8		03	3.8
125	30	15,267	[illegible]		04	3.0
100	30	16,598	-68.9		[illegible]	4.0
80	30	17,948	-64.9		[illegible]	5.1
70	30	18,767	-62.7		07	7.4
60	30	19,722	-60.6		08	9.2
50	[illegible]	20,864	-58.3		[illegible]	11.3
40	30	22,275	-56.1		09	13.7
30	29	24,116	-52.8		09	16.2
25	29	25,299	-50.6		[illegible]	17.4
20	28	26,760	-48.2		[illegible]	19.4
15	24	28,674	-45.0		[illegible]	22.4
10	16	31,407	-41.3		09	25.0

CHARLESTON, SC [illegible] MB

	No. of observations	Height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s
SFC	31	13	23.1	21.0	27	1.0
1000	31	164	24.0	21.4	27	2.3
950	31	614	22.6	18.1	26	3.2
900	31	1,084	19.8	15.4	26	2.1
850	31	1,575	16.8	11.6	25	1.9
800	31	2,091	14.1	6.3	25	2.1
750	31	2,633	[illegible]	2.0	24	2.1
700	31	3,206	7.8	-2.1	25	2.3
650	31	3,814	4.5	-6.3	[illegible]	2.2
600	31	4,462	1.1	-10.4	25	[illegible]
550	31	5,157	-2.8	-16.6	25	2.2
500	31	5,906	-7.1	-22.4	23	2.3
450	31	6,720	-12.1	-27.6	23	1.6
400	31	7,611	-18.1	-34.2	21	1.2
350	[illegible]	8,597	-25.4	-40.2	20	2.0
300	31	9,694	-34.0	-48.1	16	1.5
250	[illegible]	10,944	-44.1		17	1.9
200	31	12,403	-55.7		13	1.6
175	30	13,244	-61.4		09	[illegible]
150	30	14,187	-66.4		08	3.0
125	[illegible]	15,282	-69.0		05	2.3
100	[illegible]	16,616	-68.3		06	3.5
80	[illegible]	17,960	-65.4		06	5.4
70	29	18,779	-62.9		07	7.7
60	29	19,733	-60.8		[illegible]	9.9
50	[illegible]	20,876	-57.5		09	12.5
40	29	22,294	-55.0		09	14.3
30	28	24,144	[illegible]		09	16.8
25	[illegible]	25,331	-49.8		09	18.0
20	28	26,800	-47.3		09	19.5
15	[illegible]	[illegible]	-44.8		09	22.4
10	12	31,448	-41.4		09	26.3

CHATHAM, MA 1014 MB

	No. of observations	Height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s
SFC	[illegible]	16	19.0	17.0	31	[illegible]
1000	31	138	19.5	15.1	32	1.3
950	31	580	18.8	11.2	32	2.9
900	31	1,044	16.6	9.4	30	3.8
850	31	1,528	13.6	6.2	29	4.4
800	31	2,038	11.2	[illegible]	[illegible]	6.2
750	[illegible]	2,575	8.9	-3.7	30	8.0
700	31	3,143	5.9	-6.5	29	9.5
650	31	3,746	2.5	-9.7	29	10.9
600	31	4,390	[illegible]	[illegible]	[illegible]	11.1
550	31	5,079	-5.1	-15.8	29	12.2
500	31	5,822	-9.4	-21.2	29	13.7
450	31	6,629	-14.4	-27.5	29	14.7
400	31	7,512	-20.4	[illegible]	[illegible]	15.7
350	[illegible]	8,490	-27.4	-40.5	29	17.9
300	31	9,578	-35.9	-48.5	29	20.1
250	31	10,819	-45.5		29	22.1
200	30	12,275	-55.4		29	22.3
175	29	13,119	-59.2		29	20.6
150	29	14,077	-62.2		29	16.1
125	29	15,199	-63.6		[illegible]	12.5
100	29	16,573	-61.8		29	[illegible]
80	29	17,963	-59.3		31	3.3
70	28	18,804	-57.6		34	1.6
60	28	19,780	-56.5		06	2.1
50	28	20,942	-54.6		08	[illegible]
40	28	22,377	-52.6		[illegible]	6.4
30	[illegible]	24,246	-50.2		09	9.1
25	24	25,443	-48.6		09	9.7
20	19	26,917	-46.6		09	11.2
15	16	28,834	-44.2		09	14.9

CHIHUAHUA, MEXICO [illegible] MB

	No. of observations	Height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s
SFC	31	1,428	18.1	14.2	[illegible]	.1
850	[illegible]	1,524	19.0	[illegible]	[illegible]	.0
800	[illegible]	2,046	17.9	[illegible]	[illegible]	.9
750	[illegible]	2,596	14.1	6.1	11	2.1
700	[illegible]	3,174	9.8	[illegible]	10	2.2
650	[illegible]	3,786	5.6	-1.1	07	3.2
600	[illegible]	4,437	1.4	-6.3	07	5.1
550	[illegible]	5,132	-2.9	-11.8	[illegible]	[illegible]
500	[illegible]	[illegible]	-7.3	-17.8	08	[illegible]
450	31	6,695	-12.1	-23.6	08	3.8
400	31	7,587	-17.7	-31.3	08	3.6
350	[illegible]	[illegible]	-24.8	-37.8	07	[illegible]
300	[illegible]	[illegible]	-33.0	-45.7	05	2.8
250	31	10,931	-42.6		03	2.7
200	[illegible]	[illegible]	-54.4		36	3.1
175	[illegible]	13,244	-60.4		[illegible]	3.6
150	[illegible]	14,189	-67.0		[illegible]	3.1
125	[illegible]	15,276	-72.0		05	[illegible]
100	[illegible]	16,587	-72.5		07	5.2
80	[illegible]	17,912	-68.4		08	[illegible]
70	[illegible]	18,716	-66.5		[illegible]	9.5
60	29	19,655	-63.9		[illegible]	11.9
50	[illegible]	[illegible]	[illegible]		09	14.0
40	[illegible]	[illegible]	[illegible]		09	16.3
30	25	24,002	-55.1		09	18.1
25	[illegible]	25,171	-53.5			20.1
20	[illegible]	26,615	-50.3			21.4
15	20	28,502	[illegible]		08	23.8
10	8	31,195	-42.8			

* **COLD BAY, AK** [illegible] MB

	No. of observations	Height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s
SFC	[illegible]	[illegible]	10.1	8.8	25	.4
1000	[illegible]	153	9.7	8.3	26	3.9
950	[illegible]	[illegible]	8.1	5.7	[illegible]	[illegible]
900	[illegible]	[illegible]	[illegible]	3.3	[illegible]	1.6
850	[illegible]	1,466	[illegible]	.3	26	1.8
800	[illegible]	1,960	[illegible]	-3.3	[illegible]	3.3
750	[illegible]	2,482	1.3	-8.5	27	[illegible]
700	[illegible]	3,035	-1.7	-12.9	[illegible]	3.6
650	[illegible]	3,622	-4.5	-16.0	[illegible]	[illegible]
600	[illegible]	4,248	-8.0	-19.3	[illegible]	4.2
550	[illegible]	4,920	-12.0	-23.0	28	5.2
500	[illegible]	5,642	-16.7	-28.5	[illegible]	6.2
450	[illegible]	6,426	-22.0	-33.7	[illegible]	7.2
400	[illegible]	7,281	-28.5	-39.4	[illegible]	[illegible]
350	[illegible]	8,227	-35.6	-44.4	28	10.9
300	[illegible]	9,280	-43.1	-46.0	[illegible]	12.9
250	[illegible]	10,498	-48.9		[illegible]	13.5
200	[illegible]	11,954	-51.5		[illegible]	13.3
175	[illegible]	12,820	-51.9		[illegible]	11.7
150	[illegible]	13,818	-52.6		[illegible]	[illegible]
125	[illegible]	14,995	-53.0		29	[illegible]
100	[illegible]	16,433	-53.1		28	5.8
80	[illegible]	[illegible]	-52.7		30	[illegible]
70	[illegible]	18,735	-52.2		31	2.5
60	[illegible]	19,744	-51.9		32	1.9
50	[illegible]	20,928	[illegible]		[illegible]	[illegible]
40	[illegible]	22,386	-50.0		[illegible]	1.1
30	[illegible]	24,273	-48.5		08	3.0
25	[illegible]	25,473	-47.4		09	2.8
20	[illegible]	26,953	-45.4		08	4.3
15	[illegible]	28,876	[illegible]		08	3.3
10	[illegible]	31,625	-39.8		07	[illegible]

DAYTON, OH [illegible] MB

	No. of observations	Height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s
SFC	31	299	19.5	18.2	17	.8
950	[illegible]	603	[illegible]	16.3	[illegible]	4.1
900	[illegible]	1,070	18.8	13.8	[illegible]	5.4
850	[illegible]	1,560	15.9	8.7	[illegible]	6.3
800	[illegible]	2,073	13.1	4.6	[illegible]	6.7
750	[illegible]	2,614	10.2	.4	26	7.2
700	[illegible]	3,184	6.7	-3.1	26	7.4
650	[illegible]	[illegible]	[illegible]	-6.2	[illegible]	7.9
600	[illegible]	4,434	-.5	-10.6	25	8.2
550	[illegible]	5,126	-4.1	-17.0	26	[illegible]
500	[illegible]	5,872	-8.3	-22.3	[illegible]	9.1
450	[illegible]	6,682	-13.6	-26.9	[illegible]	9.2
400	[illegible]	7,567	-19.7	-34.0	27	[illegible]
350	[illegible]	8,547	-26.8	-39.8	27	10.9
300	[illegible]	9,638	-35.2	[illegible]	[illegible]	11.6
250	[illegible]	[illegible]	-44.9		27	12.7
200	[illegible]	[illegible]	-54.9		27	13.7
175	31	13,186	-59.4		28	12.8
150	[illegible]	14,141	-63.7		28	11.6
125	31	15,252	-66.1		28	9.4
100	[illegible]	16,608	-64.8		29	4.7
80	[illegible]	17,978	[illegible]		34	1.7
70	[illegible]	18,809	-60.1		05	2.6
60	[illegible]	19,776	-58.1		07	4.2
50	[illegible]	20,926	-56.0		08	5.6
40	[illegible]	[illegible]	-53.5		08	7.9
30	[illegible]	24,215	-51.0		09	[illegible]
25	[illegible]	25,406	-49.3		08	11.2
20	[illegible]	26,881	-46.9		09	13.2
15	16	28,795	-43.8		09	15.2

DEL RIO, TX [illegible] MB

	No. of observations	Height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s
SFC	31	314	23.7	20.8	10	3.3
950	31	573	[illegible]	19.6	14	6.2
900	[illegible]	1,044	20.8	16.8	16	8.0
850	[illegible]	1,537	18.2	13.6	16	7.1
800	[illegible]	2,055	15.3	9.4	15	6.5
750	[illegible]	2,601	12.7	1.9	[illegible]	5.2
700	[illegible]	3,177	[illegible]	-2.7	15	3.2
650	[illegible]	3,788	5.9	-6.9	13	2.2
600	[illegible]	4,439	1.8	-9.9	11	2.0
550	[illegible]	5,135	-2.5	-14.5	10	2.8
500	[illegible]	[illegible]	-6.8	-20.3	10	3.5
450	[illegible]	6,700	-12.0	-27.7	09	3.7
400	[illegible]	7,591	-18.0	-32.7	08	3.9
350	[illegible]	8,578	-24.9	-39.4	06	4.2
300	[illegible]	9,678	-33.2	-46.7	04	3.8
250	[illegible]	10,934	-42.8		[illegible]	3.8
200	[illegible]	12,402	-54.1		02	3.8
175	[illegible]	13,247	-60.2		03	4.8
150	[illegible]	14,194	-66.6		04	6.0
125	[illegible]	15,284	-71.2		06	6.2
100	[illegible]	16,600	-70.8		08	6.7
80	[illegible]	17,933	-67.6		08	7.4
70	[illegible]	18,741	-65.4		08	9.4
60	[illegible]	19,685	-63.3		09	11.9
50	[illegible]	20,813	-60.4		09	14.8
40	[illegible]	22,212	-57.8		09	17.0
30	30	[illegible]	-53.8		09	19.7
25	[illegible]	25,220	-51.6		09	21.6
20	30	26,677	-48.9		09	22.5
15	26	28,586	-45.8		09	25.2
10	13	31,308	-41.9		09	31.8

DENVER, CO 840 MB

	No. of observations	Height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s
SFC	31	1,611	14.7	5.2	22	2.0
800	31	2,034	18.8	1.9	28	[illegible]
750	31	2,585	16.3	-2.3	29	3.4
700	31	3,167	11.8	-5.3	27	[illegible]
650	31	3,782	6.9	-7.6	27	3.9
600	31	4,433	1.5	-10.4	27	4.7
550	31	5,127	-3.8	-14.2	26	6.1
500	31	5,872	-9.1	-20.8	26	[illegible]
450	31	6,680	-14.0	-28.0	26	7.8
400	31	7,564	-20.3	[illegible]	26	9.6
350	31	8,542	-27.6	[illegible]	26	12.3
300	31	9,629	-36.0	-46.9	26	16.0
250	31	10,872	-44.9		26	18.7
200	31	12,331	-55.0		26	20.8
175	31	13,175	-59.5		27	19.7
150	31	14,130	-63.6		27	15.7
125	31	15,241	-66.3		26	11.1
100	31	16,592	-66.0		24	5.1
80	31	17,958	-62.1		25	2.0
70	31	18,787	-59.7		11	.6
60	31	19,756	-57.7		08	3.4
50	31	20,912	-55.7		[illegible]	5.9
40	31	22,342	-53.4		09	[illegible]
30	31	24,204	-50.7		09	10.6
25	31	25,399	-48.5		09	12.5
20	31	26,876	-45.8		09	13.5
15	30	[illegible]	-43.3		09	15.5

DODGE CITY, KS [illegible] MB

	No. of observations	Height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s
SFC	31	791	20.5	14.5	[illegible]	2.3
900	[illegible]	1,030	22.8	13.1	21	6.7
850	31	1,528	21.7	[illegible]	22	9.5
800	31	2,052	[illegible]	[illegible]	22	6.9
750	31	2,602	15.1	[illegible]	23	5.0
700	31	3,182	10.7	-2.4	[illegible]	3.2
650	31	3,795	6.3	-7.2	[illegible]	2.2
600	31	4,445	1.4	-11.3	27	[illegible]
550	31	5,139	[illegible]	-14.4	[illegible]	2.3
500	31	5,886	-8.1	-21.6	[illegible]	3.0
450	31	6,697	-12.9	-27.7	[illegible]	5.0
400	31	7,584	-19.3	-32.1	28	[illegible]
350	30	8,569	-26.3	-39.5	[illegible]	7.6
300	30	9,661	-34.8	-47.4	[illegible]	9.5
250	30	10,909	-44.1		28	11.3
200	30	12,372	-54.0		28	[illegible]
175	30	13,217	-59.4		28	12.0
150	30	14,170	-64.6		28	10.6
125	[illegible]	15,274	-68.0		28	7.4
100	30	16,613	-67.5		27	3.3
80	30	17,968	-63.9		02	.6
70	30	18,792	[illegible]		08	3.2
60	30	19,755	-59.2		09	[illegible]
50	28	20,904	-56.7		09	7.1
40	28	22,324	-54.9		09	9.0
30	[illegible]	24,177	-51.8		09	11.6
25	27	25,364	-49.7		09	[illegible]
20	27	26,834	-47.3		09	14.8
15	25	[illegible]	-44.9		09	17.5
10	15	31,489	-41.1		09	20.5

EL PASO, TX 883 MB

	No. of observations	Height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s
SFC	31	1,193	19.9	11.7	16	.8
1000						
950						
900						
850	[illegible]	1,526	21.6	8.1	16	[illegible]
800	31	2,049	19.0	4.8	17	3.0
750	[illegible]	2,601	15.1	2.2	18	2.1
700	31	3,180	10.9	-1.2	07	1.0
650	[illegible]	[illegible]	6.3	-4.1	06	[illegible]
600	[illegible]	4,445	1.3	-7.9	07	[illegible]
550	[illegible]	5,139	-3.6	-11.1	07	[illegible]
500	[illegible]	5,886	-8.1	-18.7	09	[illegible]
450	[illegible]	6,698	-12.5	-25.0	08	2.1
400	[illegible]	7,588	-18.1	-31.6	04	1.2
350	31	8,575	-25.1	-38.8	03	2.2
300	31	9,674	-33.6	-46.6	36	1.6
250	[illegible]	10,926	-43.5		32	1.9
200	[illegible]	12,390	-54.8		30	3.3
175	[illegible]	13,233	-60.5		[illegible]	3.8
150	[illegible]	14,179	-66.7		30	3.5
125	[illegible]	15,268	-71.3		33	1.6
100	[illegible]	16,585	-70.8		07	2.6
80	[illegible]	17,917	-67.3		08	[illegible]
70	9	18,728	-65.1		09	7.8
60	[illegible]	19,674	-62.6		09	[illegible]
50	[illegible]	20,808	-59.6		09	12.9
40	[illegible]	22,211	-57.5		09	14.9
30	[illegible]	24,044	-53.4		09	[illegible]
25	[illegible]	25,223	-51.5		09	18.4
20	[illegible]	26,680	-49.1		09	[illegible]
15	[illegible]	28,583	-46.5		09	24.2
10	[illegible]	31,308	-42.1			
7						

ELY, NV 811 MB

	No. of observations	Height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s
SFC	30	1,908	10.2	-1.2	[illegible]	4.1
800	[illegible]	2,027	14.6	-.7	[illegible]	4.1
750	30	2,574	14.3	-3.2	[illegible]	5.2
700	30	3,152	10.4	-6.1	[illegible]	6.6
650	30	3,763	5.4	-9.0	[illegible]	8.5
600	30	4,411	.1	-12.3	[illegible]	9.5
550	30	5,101	-5.3	-16.7	[illegible]	9.4
500	30	5,842	-10.3	-23.4	[illegible]	10.8
450	[illegible]	6,648	-15.4	-29.8	[illegible]	12.4
400	[illegible]	7,526	-21.7	-34.7	[illegible]	13.8
350	[illegible]	8,498	-28.9	-41.1	[illegible]	15.9
300	[illegible]	9,580	-37.1	-48.7	[illegible]	16.9
250	[illegible]	10,816	-46.2		[illegible]	20.4
200	[illegible]	12,272	-54.2		[illegible]	23.7
175	[illegible]	13,118	-57.9		[illegible]	21.9
150	[illegible]	14,081	-61.7		[illegible]	18.9
125	[illegible]	15,203	-64.1		[illegible]	13.8
100	[illegible]	16,566	-64.6		[illegible]	6.2
80	26	17,938	-61.7		[illegible]	1.4
70	[illegible]	18,769	-59.9		[illegible]	.2
60	[illegible]	19,736	-57.9		08	2.7
50	[illegible]	20,890	-56.5		09	4.9
40	[illegible]	22,311	-55.1		09	6.6
30	[illegible]	24,163	-51.9		09	9.9
25	[illegible]	25,348	-50.1		09	11.1
20	[illegible]	26,815	-47.6		09	13.1
15	24	28,725	-45.3		[illegible]	15.0
10	[illegible]	31,464	-41.0		09	17.3
7	9	33,887	-37.2			

EMPALME, MEXICO 1010 MB

	No. of observations	Height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s
SFC	31	12	26.6	23.1	09	1.2
1000	31	104	27.2	22.0	11	1.8
950	31	558	25.4	18.4	15	3.5
900	31	1,033	23.6	14.2	14	2.5
850	31	1,531	21.0	11.7	09	1.5
800	31	2,054	17.9	9.0	06	2.8
750	31	2,604	14.5	6.3	07	3.7
700	31	3,184	10.4	[illegible]	08	4.4
650	31	3,797	6.1	-.3	08	4.3
600	31	[illegible]	1.9	-5.4	09	4.9
550	31	5,146	-2.4	-11.3	08	4.7
500	31	5,897	-6.9	-17.0	08	4.3
450	31	6,712	-11.5	-22.8	10	4.0
400	31	7,606	-17.4	-30.7	09	3.3
350	[illegible]	8,596	-23.9	-36.5	11	2.8
300	30	9,700	-32.2	-43.9	10	1.8
250	30	10,960	-42.4		14	[illegible]
200	29	12,428	-54.3		[illegible]	1.9
175	[illegible]	13,271	[illegible]		18	2.0
150	29	14,216	-66.8		14	1.1
125	28	15,304	-71.7		09	3.0
100	27	16,617	-70.7		09	5.3
80	[illegible]	17,950	-68.4		09	9.1
70	24	18,755	-65.8		09	11.3
60	23	19,702	-62.3		09	13.5
50	22	20,834	-60.0		09	16.4
40	22	22,235	-58.1		09	18.3
30	19	24,059	-54.0		09	19.9
25	18	25,241	-51.1		09	21.0
20	16	26,705	-48.7		09	[illegible]
15	12	28,586	-46.3		08	25.3

* **FAIRBANKS, AK** 996 MB

	No. of observations	Height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s
SFC	31	135	9.6	7.0	[illegible]	.9
1000	9	151	8.4	6.7		
950	[illegible]	[illegible]	10.6	5.0	[illegible]	2.4
900	[illegible]	[illegible]	8.1	2.1	[illegible]	[illegible]
850	31	1,448	4.7	[illegible]	24	4.4
800	31	1,939	[illegible]	-3.1	24	4.8
750	31	2,456	-1.8	-6.0	24	5.0
700	31	3,002	-5.0	-9.9	24	4.8
650	31	3,582	[illegible]	-15.7	25	4.5
600	31	4,201	-11.4	-19.7	26	4.8
550	31	4,863	-15.6	-24.2	26	4.8
500	31	5,576	-20.3	-28.5	26	5.0
450	31	6,348	-25.8	-34.5	28	4.6
400	31	7,190	-32.4	-40.6	[illegible]	4.1
350	31	8,121	-39.3	-43.7	[illegible]	4.2
300	31	9,156	-47.2		30	4.2
250	31	10,348	-51.8		31	5.5
200	31	11,798	-50.1		31	5.4
175	31	12,673	-49.2		31	4.9
150	31	13,684	-49.3		30	4.4
125	31	14,878	-49.6		31	3.8
100	31	16,339	-49.5		29	2.9
80	30	17,804	-49.1		30	2.0
70	30	18,681	-48.9		31	2.4
60	30	19,694	-48.7		32	1.4
50	29	20,895	-48.5		35	1.3
40	29	22,365	-48.1		01	1.0
30	27	24,264	-47.5		07	2.4
25	27	25,471	-46.7		06	2.0
20	27	26,956	-45.4		06	[illegible]
15	26	[illegible]	-43.2		[illegible]	2.8
10	16	31,680	-38.9		[illegible]	2.6
7	8	34,112	-36.4			

FLINT, MI 990 MB

	No. of observations	Height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s
SFC	31	236	17.4	15.1	[illegible]	1.1
950	31	589	18.5	[illegible]	24	1.7
900	[illegible]	[illegible]	16.6	[illegible]	[illegible]	[illegible]
850	31	1,537	14.2	5.2	28	4.7
800	31	2,048	11.7	2.5	[illegible]	6.4
750	31	2,585	8.8	.7	[illegible]	7.9
700	[illegible]	3,153	5.4	[illegible]	[illegible]	8.3
650	[illegible]	3,756	2.2	-6.7	27	8.7
600	[illegible]	[illegible]	-1.5	-10.9	[illegible]	9.5
550	[illegible]	[illegible]	[illegible]	-16.1	27	10.9
500	[illegible]	[illegible]	[illegible]	-21.6	27	12.3
450	[illegible]	6,639	-14.4	-27.4	27	13.5
400	[illegible]	7,521	-20.4	-31.7	27	14.0
350	[illegible]	8,498	-27.0	-37.9	27	16.4
300	[illegible]	9,585	-36.1	-46.5	27	[illegible]
250	[illegible]	10,826	-45.6		26	21.5
200	31	12,282	-54.9		28	22.4
175	[illegible]	[illegible]	[illegible]		28	19.8
150	31	14,090	-61.4		[illegible]	17.1
125	31	15,216	-63.3		28	14.0
100	31	16,590	-62.0		28	7.8
80	31	17,977	-59.5		30	4.0
70	[illegible]	[illegible]	[illegible]		34	[illegible]
60	[illegible]	[illegible]	[illegible]		05	[illegible]
50	[illegible]	[illegible]	[illegible]		08	4.0
40	29	22,394	-52.6		09	[illegible]
30	[illegible]	24,270	-49.7		09	9.0
25	[illegible]	25,474	[illegible]		09	10.3
20	[illegible]	26,955	-45.3		09	[illegible]
15	[illegible]	28,889	-42.4			14.1

RAWINSONDE DATA

Average monthly values

AUGUST 1975

GLASGOW, MT 934 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	696	[illegible]	[illegible]	08	1.5
1000						
950						
900	31	[illegible]	15.3	[illegible]	24	.8
850	31	[illegible]	13.9	[illegible]	28	4.2
800	31	[illegible]	10.6	1.1	28	5.4
750	31	2,535	7.1	-1.4	27	6.9
700	31	[illegible]	3.4	-5.2	27	8.9
650	31	[illegible]	-.3	-8.3	26	[illegible]
600	31	[illegible]	-4.3	-12.8	26	13.7
550	31	[illegible]	-8.8	-17.6	26	15.4
500	31	[illegible]	-13.8	-24.3	26	14.9
450	31	[illegible]	-19.2	[illegible]	26	17.4
400	31	[illegible]	-25.5	[illegible]	26	18.9
350	31	[illegible]	-32.8	-43.1	26	[illegible]
300	31	[illegible]	-41.1	-49.6	26	27.9
250	31	[illegible]	-49.8		27	24.2
200	31	[illegible]	-53.8		26	26.5
175	31	[illegible]	-54.3		26	26.7
150	31	13,924	-55.4		27	22.9
125	31	[illegible]	-56.5		27	17.1
100	31	[illegible]	-56.3		27	11.5
80	30	17,919	-55.2		27	5.4
70	30	18,773	-54.5		27	3.0
60	30	19,763	-53.6		30	.5
50	29	20,941	-52.0		06	1.3
40	29	22,391	-50.6		08	2.8
30	26	[illegible]	-48.5		09	4.6
25	23	[illegible]	-46.7		08	6.2
20	20	[illegible]	-44.8		09	7.1
15	19	[illegible]	-41.7		09	8.0
10	10	[illegible]	-37.5			

GRAND JUNCTION, CO 854 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	[illegible]	[illegible]	[illegible]	[illegible]	3.2
850	31	1,514	[illegible]	[illegible]	[illegible]	[illegible]
800	31	2,036	18.9	.9	[illegible]	4.2
750	31	2,587	16.0	[illegible]	[illegible]	[illegible]
700	31	3,168	[illegible]	-4.7	[illegible]	3.9
650	31	3,782	6.3	-7.2	25	5.3
600	31	4,432	[illegible]	-9.7	[illegible]	6.0
550	31	5,124	[illegible]	[illegible]	[illegible]	6.9
500	31	5,867	-9.8	[illegible]	25	8.8
450	31	6,673	-14.7	-27.5	25	9.2
400	30	7,556	-20.7	-34.0	26	11.2
350	30	8,532	-27.7	-41.1	26	14.1
300	30	9,620	-35.7	-48.7	25	17.2
250	30	10,863	-44.8		25	[illegible]
200	30	12,324	-54.4		26	22.5
175	30	13,171	-58.8		26	21.1
150	30	14,128	-63.4		26	16.8
125	30	15,239	-66.8		26	13.3
100	29	[illegible]	-66.7		26	6.8
80	29	17,949	-62.9		[illegible]	1.7
70	29	18,776	-60.7		14	.8
60	29	19,739	-58.8		09	2.5
50	28	20,890	-56.8		09	6.1
40	27	22,311	-54.7		09	7.2
30	27	24,164	-51.5		09	10.3
25	27	25,353	-49.7		09	12.3
20	27	26,820	-48.3		09	13.9
15	24	28,736	-45.2		09	15.9
10	15	31,462	-41.1		09	18.2

* GREAT FALLS, MT 888 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	1,118	12.5	6.0	24	1.9
850	31	1,491	13.6	2.7	25	4.4
800	31	2,000	[illegible]	.4	26	4.9
750	31	2,534	6.4	-1.8	26	6.5
700	31	3,097	2.4	-4.6	25	9.8
650	31	3,693	-.8	-8.7	26	12.0
600	31	4,378	-4.5	-13.4	25	12.9
550	31	5,008	-9.0	-19.0	25	14.1
500	31	5,738	-14.2	-23.7	26	14.9
450	31	6,530	-19.4	-30.3	26	15.9
400	31	7,395	-25.7	-35.8	26	17.5
350	31	8,351	-33.0	-42.4	26	18.6
300	31	9,413	-41.5	-48.7	26	19.7
250	31	10,628	-49.7		26	24.5
200	30	12,079	-54.1		26	26.4
175	30	12,934	-54.9		25	25.4
150	30	13,918	-55.7		26	22.3
125	30	15,076	-57.0		26	16.9
100	29	16,486	-56.6		25	10.2
80	29	17,901	-56.1		26	5.5
70	29	18,753	-55.2		25	3.4
60	29	19,739	-54.1		26	1.6
50	28	20,912	-52.7		09	.7
40	27	22,356	-51.6		08	1.9
30	22	24,228	-49.5		09	4.1
25	19	25,422	-48.1		08	5.1
20	16	26,901	-45.7		09	6.5
15	13	28,804	-44.0		09	6.8
10	6	31,512	-40.5			

GREEN BAY, WI 992 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	210	15.9	13.3	29	.6
1000						
950	31	576	17.9	10.8	26	2.2
900	31	1,038	15.8	8.5	27	3.6
850	31	1,522	13.3	5.2	27	4.9
800	31	2,030	[illegible]	-.3	27	7.3
750	31	2,567	8.3	-4.2	27	8.4
700	31	3,133	4.9	-8.0	27	9.3
650	31	3,735	1.7	-10.8	28	10.1
600	31	4,375	-2.3	-14.8	28	10.9
550	31	5,062	-6.2	-19.1	28	[illegible]
500	31	5,801	[illegible]	-24.1	27	12.6
450	31	6,603	-16.0	-29.1	28	13.4
400	31	7,480	-21.9	-34.8	28	14.9
350	31	8,452	-28.9	-39.9	28	16.9
300	31	9,534	-37.0	-47.6	28	19.0
250	31	10,771	-46.0		28	22.5
200	31	12,227	-54.6		28	25.3
175	31	13,076	-57.5		28	24.7
150	31	14,044	-59.9		28	20.3
125	31	15,179	-61.6		28	14.7
100	31	16,562	-60.8		28	9.4
80	31	17,958	-58.7		28	4.4
70	31	18,800	-57.5		30	2.4
60	31	19,777	-55.9		35	1.4
50	31	20,943	-54.0		07	3.1
40	31	22,384	-51.8		08	4.8
30	30	24,261	-49.2		09	[illegible]
25	27	25,465	-47.5		08	7.8
20	27	26,946	-45.8		09	9.1
15	24	28,887	-42.9		09	11.3
10	15	31,645	-38.9			

GREENSBORO, NC 987 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	25	275	21.6	0.5	26	.9
1000						
950	25	610	22.9	16.9	29	[illegible]
900	25	1,080	[illegible]	3.7	30	[illegible]
850	25	1,572	[illegible]	1.4	30	2.9
800	25	2,087	14.0	6.0	29	3.4
750	25	2,629	10.9	1.2	28	3.7
700	25	3,201	7.4	-3.2	28	4.0
650	25	3,808	4.2	-6.8	27	[illegible]
600	25	4,455	.4	-11.3	27	4.9
550	25	5,149	-3.3	-16.7	27	5.0
500	25	5,897	-7.4	-22.9	26	[illegible]
450	25	6,711	-12.2	-26.3	26	5.2
400	25	7,601	-18.2	-32.5	26	[illegible]
350	25	8,588	-25.3	-40.2	26	6.9
300	25	9,685	-33.9	-47.7	26	6.7
250	25	10,936	-43.9		27	[illegible]
200	25	12,397	-55.1		27	6.9
175	25	13,240	-60.4		28	5.9
150	25	14,188	-65.6		29	4.4
125	25	15,289	-67.7		32	2.8
100	25	16,634	-65.9		02	2.0
80	25	18,000	-62.7		07	3.5
70	25	18,828	-60.3		07	5.3
60	25	19,793	-58.6		08	7.3
50	24	20,944	-56.2		09	[illegible]
40	24	22,371	-53.7		09	11.9
30	23	24,233	-50.8		09	13.8
25	19	25,426	-48.9		09	14.9
20	17	26,897	-47.1		09	16.6
15	15	28,804	-44.6		09	19.3

* GUAM, MARIANA IS. 998 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	[illegible]	24.6	[illegible]	[illegible]	[illegible]
1000	[illegible]	[illegible]	24.5	[illegible]		
950	31	[illegible]	23.0	20.5	11	5.7
900	31	[illegible]	[illegible]	17.0	12	5.8
850	31	[illegible]	17.9	[illegible]	12	[illegible]
800	31	[illegible]	15.2	[illegible]	11	[illegible]
750	31	[illegible]	[illegible]	[illegible]	11	[illegible]
700	31	[illegible]	9.2	[illegible]	11	5.8
650	30	[illegible]	5.8	.2	12	5.3
600	30	[illegible]	[illegible]	[illegible]	12	4.9
550	30	[illegible]	-1.9	-6.3	12	4.9
500	30	[illegible]	[illegible]	[illegible]	11	4.4
450	29	[illegible]	-10.6	-15.5	10	4.3
400	29	7,584	-16.4	-21.8	10	3.5
350	29	8,579	-23.1	[illegible]	09	2.5
300	29	9,686	-31.6	[illegible]	06	[illegible]
250	29	10,948	-42.1		04	[illegible]
200	29	12,416	-55.0		02	[illegible]
175	29	13,255	-62.3		01	7.3
150	28	14,190	-70.2		36	10.2
125	27	15,258	-76.9		02	9.4
100	[illegible]	16,531	-75.7		07	[illegible]
80	[illegible]	17,835	[illegible]		08	11.8
70	[illegible]	18,623	[illegible]		09	13.6
60	27	19,543	-67.5		09	13.8
50	25	20,652	-62.7		09	13.4
40	25	22,035	[illegible]		09	12.1
30	24	23,838	-57.2		08	13.2
25	24	24,998	-54.6		09	13.3
20	24	[illegible]	-52.4		09	14.5
15	[illegible]	[illegible]	-49.1			
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HILO, HI 1017 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	10	[illegible]	[illegible]	[illegible]	[illegible]
1000	31	156	[illegible]	[illegible]	[illegible]	.6
950	31	500	[illegible]	15.9	08	2.6
900	31	1,063	[illegible]	[illegible]	08	3.8
850	31	1,546	12.4	9.9	08	4.1
800	31	2,053	9.8	4.1	08	4.8
750	31	2,589	[illegible]	-7.4	09	5.8
700	31	3,160	8.1	-12.2	09	5.0
650	31	3,768	4.9	-15.1	[illegible]	4.1
600	31	4,417	[illegible]	-18.5	10	3.8
550	31	5,114	[illegible]	-21.6	10	2.2
500	31	5,865	[illegible]	-25.9	[illegible]	.9
450	31	6,679	[illegible]	-30.3	[illegible]	.9
400	31	7,568	-19.0	[illegible]	[illegible]	2.5
350	30	8,552	-26.6	[illegible]	[illegible]	5.2
300	30	9,643	[illegible]	-49.0	[illegible]	8.0
250	30	10,885	-45.5		[illegible]	11.4
200	30	12,336	-56.8		[illegible]	13.4
175	30	13,172	[illegible]		[illegible]	12.8
150	30	14,114	-66.6		[illegible]	9.5
125	30	15,209	-69.5		[illegible]	3.6
100	30	16,529	-72.1		11	3.6
80	30	17,847	-70.8		10	9.5
70	30	18,643	-68.3		10	11.6
60	[illegible]	19,574	-65.8		09	13.9
50	30	20,688	-63.5		09	17.4
40	29	22,067	-60.1		09	18.3
30	28	23,877	-56.5		09	18.5
25	27	25,040	-55.1		09	19.9
20	26	26,474	-52.2		09	22.2
15	21	28,352	-48.8		09	24.1
10	14	31,041	-45.1		09	25.8

HUNTINGTON, WV 990 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	246	20.6	19.2	21	.6
1000						
950	31	602	22.0	17.4	25	4.3
900	31	1,071	19.6	14.3	27	5.9
850	31	1,562	16.5	11.5	27	6.1
800	31	2,076	13.5	6.8	26	6.1
750	31	2,617	10.4	1.0	26	6.2
700	31	3,188	6.7	-3.4	26	6.2
650	31	3,794	3.6	-6.8	26	5.7
600	31	4,440	.1	-11.9	26	6.4
550	31	5,132	-3.8	-15.5	26	7.1
500	31	5,880	-7.8	-22.3	26	7.2
450	31	6,692	-12.7	-25.8	26	7.1
400	31	7,583	-18.7	-31.6	26	8.1
350	30	8,568	-25.7	-38.6	26	8.4
300	30	9,663	-34.2	-46.2	27	8.7
250	30	10,914	-44.1		27	10.4
200	30	12,375	-54.7		28	11.8
175	30	13,220	-59.6		28	10.2
150	30	14,174	-64.1		29	8.4
125	30	15,281	-66.8		30	6.4
100	30	16,633	-65.8		30	3.4
80	29	17,999	-62.0		04	2.3
70	29	18,828	-60.2		06	3.2
60	29	19,795	-58.2		07	4.8
50	29	20,949	-55.9		08	6.9
40	29	22,376	-53.7		09	9.4
30	27	24,243	-50.2		09	11.4
25	26	25,440	-48.6		08	12.5
20	26	26,916	-46.1		09	15.2
15	18	28,827	-43.7		09	16.5

* INTERNATIONAL FALLS, MN 973 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	359	11.9	10.4	19	.8
1000						
950	31	556	14.4	9.9	21	2.4
900	31	1,013	12.9	6.2	24	5.3
850	31	1,491	10.4	3.3	27	6.9
800	31	1,994	8.1	-.4	27	8.1
750	31	2,525	5.7	-6.7	27	9.2
700	31	3,087	2.6	-10.7	27	10.7
650	31	3,683	-.8	-13.1	28	12.0
600	31	4,318	-4.4	-18.2	28	13.8
550	31	4,998	-8.8	-24.5	28	15.4
500	31	5,729	-13.5	-29.9	27	16.0
450	31	6,523	-18.6	-33.4	27	17.1
400	31	7,391	-25.0	-39.3	28	19.3
350	31	8,351	-31.9	-44.5	27	22.3
300	31	9,419	-40.2	-49.2	27	25.1
250	31	10,640	-48.6		27	29.9
200	31	12,090	-53.4		27	30.2
175	31	12,948	-54.3		27	27.2
150	31	13,932	-55.9		27	22.7
125	31	15,090	-57.0		27	18.4
100	31	16,503	-56.5		27	10.9
80	31	17,921	-55.4		28	6.4
70	31	18,775	-54.8		28	3.9
60	31	19,764	-53.8		29	1.9
50	31	20,939	-52.5		05	.5
40	27	22,390	-50.9		07	2.2
30	26	24,273	-48.2		09	4.3
25	26	25,478	-46.9		09	4.6
20	24	26,963	-45.3		09	6.5
15	22	28,886	-42.8		09	7.5
10	13	31,663	-38.5		10	8.2
7	8	34,134	-34.4			

* ISLE DEL CISNE 1013 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	10	26.4	3.0	08	3.7
1000	31	120	26.4	24.1	08	4.4
950	31	572	24.8	20.9	09	6.9
900	31	1,043	20.2	16.4	10	8.0
850	31	1,535	17.4	11.5	10	8.8
800	31	2,051	14.8	7.3	10	9.1
750	31	2,595	11.7	2.0	10	8.6
700	31	3,169	8.2	-1.4	10	7.5
650	31	3,778	4.8	-5.4	10	[illegible]
600	31	4,427	1.3	-9.8	10	7.0
550	31	5,122	-2.6	-14.1	10	6.2
500	31	5,872	-6.9	-18.8	10	4.8
450	31	6,687	-12.1	-24.2	11	3.9
400	30	7,578	-18.1	-29.0	10	2.4
350	30	8,565	-24.9	-36.9	07	.8
300	30	9,664	-33.4	-44.5	33	1.7
250	30	10,918	-43.7		31	3.2
200	30	12,379	-55.6		29	4.6
175	30	13,217	-61.9		29	5.0
150	30	14,157	-68.0		31	4.0
125	30	15,244	-70.7		04	3.0
100	29	16,558	-72.8		08	6.8
80	29	17,873	-70.3		09	11.4
70	29	18,672	-67.7		09	[illegible]
60	29	19,606	-65.2		08	15.5
50	29	20,725	-62.3		08	17.7
40	29	22,114	-59.2		09	17.7
30	29	23,933	-55.3		10	16.8
25	27	25,103	-53.4		09	16.9
20	26	26,550	-50.1		09	18.2
15	21	28,456	-46.9		09	21.4
10	16	31,163	-43.6			

JACKSON, MS 1006 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	100	21.9	21.4	16	[illegible]
1000	31	[illegible]	22.5	20.8	[illegible]	[illegible]
950	31	601	22.6	[illegible]	21	[illegible]
900	31	[illegible]	19.9	15.4	21	[illegible]
850	31	[illegible]	17.0	11.7	21	[illegible]
800	31	[illegible]	13.9	[illegible]	22	[illegible]
750	31	[illegible]	10.8	4.4	21	[illegible]
700	31	[illegible]	7.4	-.3	22	[illegible]
650	31	[illegible]	4.3	-6.5	24	[illegible]
600	[illegible]	[illegible]	1.0	-11.4	23	[illegible]
550	31	[illegible]	-3.1	-16.1	22	[illegible]
500	31	[illegible]	-7.5	-22.4	23	[illegible]
450	31	[illegible]	-12.7	-26.2	24	[illegible]
400	31	[illegible]	-18.7	-29.8	[illegible]	[illegible]
350	31	[illegible]	-25.6	-37.4	23	[illegible]
300	31	[illegible]	-34.0	-46.2	25	[illegible]
250	31	[illegible]	-44.0		27	[illegible]
200	31	[illegible]	-55.0		33	[illegible]
175	31	[illegible]	-60.6		35	[illegible]
150	[illegible]	[illegible]	-65.8		02	[illegible]
125	[illegible]	[illegible]	-69.5		04	[illegible]
100	[illegible]	[illegible]	-69.0		[illegible]	[illegible]
80	31	[illegible]	-65.3		[illegible]	[illegible]
70	31	[illegible]	-63.4		07	[illegible]
60	30	[illegible]	-61.2		[illegible]	[illegible]
50	30	[illegible]	-59.2		08	[illegible]
40	28	[illegible]	-56.2		09	[illegible]
30	[illegible]	[illegible]	-53.3		09	[illegible]
25	[illegible]	[illegible]	-50.6		[illegible]	[illegible]
20	[illegible]	[illegible]	-47.7		09	[illegible]
15	5	28,660	-44.8		[illegible]	[illegible]
10	10	31,356	-39.8			
7						

JOHN F. KENNEDY INT. AP NY 1016 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	5	20.8	15.4	34	1.5
1000	31	[illegible]	20.6	14.6	34	[illegible]
950	31	[illegible]	19.2	11.5	[illegible]	3.2
900	31	[illegible]	16.7	9.3	33	3.5
850	31	[illegible]	14.5	4.6	[illegible]	4.3
800	31	2,052	12.5	[illegible]	30	7.0
750	31	2,591	9.8	[illegible]	[illegible]	9.0
700	31	3,161	6.5	-7.3	29	9.7
650	31	3,766	3.0	-9.1	[illegible]	10.5
600	31	4,410	-.4	-12.7	[illegible]	10.4
550	31	5,101	-4.3	-16.9	29	12.2
500	31	5,846	-8.8	-21.9	[illegible]	12.5
450	31	6,655	-13.5	-28.0	[illegible]	14.1
400	31	7,540	-19.8	-32.3	[illegible]	14.3
350	[illegible]	[illegible]	-27.1	-39.8	[illegible]	15.7
300	29	9,611	-35.5	-47.1	[illegible]	16.8
250	[illegible]	[illegible]	-45.2		29	17.1
200	27	12,313	-55.8		29	[illegible]
175	[illegible]	[illegible]	-60.6		[illegible]	[illegible]
150	[illegible]	14,101	-63.5		29	[illegible]
125	24	15,220	-64.7		29	[illegible]
100	24	16,589	-62.8		30	6.4
80	22	17,971	-60.0		33	[illegible]
70	22	18,809	-58.5		[illegible]	[illegible]
60	[illegible]	19,787	-56.5		[illegible]	[illegible]
50	[illegible]	20,949	-54.3		[illegible]	[illegible]
40	16	22,391	-52.5		10	[illegible]
30	[illegible]	24,259	-49.8		09	[illegible]
25	[illegible]	25,460	-48.1		[illegible]	[illegible]
20	[illegible]	26,939	-45.7		08	[illegible]
15	[illegible]	[illegible]	-42.4			

JOHNSTON IS., PACIFIC AREA 1015 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	3	26.0	21.8	09	6.9
1000	31	130	24.5	20.8	09	7.7
950	31	579	20.6	18.4	09	9.2
900	31	1,045	17.5	14.2	09	9.7
850	31	1,532	14.6	9.4	09	9.3
800	31	2,044	13.4	1.9	09	7.2
750	31	2,586	11.2	-4.2	09	4.8
700	31	3,158	8.2	-5.3	10	3.6
650	31	3,768	5.5	-11.1	10	2.9
600	31	4,418	2.2	-13.8	10	2.7
550	31	5,116	-1.6	-18.3	11	2.2
500	31	5,868	-6.2	-22.7	14	1.6
450	31	6,684	-11.9	-25.9	18	.9
400	31	7,574	-18.3	-31.8	[illegible]	2.8
350	31	[illegible]	-25.7	-37.3	25	5.0
300	31	[illegible]	-34.2	-45.1	26	9.3
250	31	10,904	-44.4		25	11.9
200	31	12,360	-56.4		26	14.7
175	31	13,195	-63.0		26	17.6
150	31	14,129	-69.3		26	15.1
125	31	15,213	-70.6		25	7.6
100	31	16,530	-72.8		10	[illegible]
80	31	17,844	-70.8		09	9.6
70	31	18,640	-69.0		09	12.2
60	[illegible]	[illegible]	-66.3		09	[illegible]
50	[illegible]	20,683	-62.8		09	15.5
40	[illegible]	22,067	-60.2		09	15.6
30	30	23,879	-56.1		09	15.2
25	[illegible]	25,042	-54.8		09	[illegible]
20	[illegible]	26,478	-52.3		09	[illegible]
15	29	28,354	-49.2		09	21.9
10	26	31,039	-44.9		09	[illegible]
7	9	33,418	-42.0			

KEY WEST, FL 1017 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	3	27.4	23.5	10	2.3
1000	31	150	26.4	22.4	10	3.5
950	31	601	22.9	19.8	10	5.3
900	31	1,072	20.0	15.3	11	5.0
850	31	1,563	17.1	10.3	11	4.5
800	31	2,079	14.3	6.4	10	3.9
750	31	2,622	11.2	2.4	10	4.0
700	31	3,195	7.9	-2.2	11	3.9
650	31	3,803	4.4	-7.0	11	3.9
600	31	4,450	.5	-11.5	11	4.2
550	31	5,143	-3.8	-15.8	12	4.2
500	31	5,889	-8.4	-20.7	11	4.1
450	31	6,699	-13.4	-24.3	11	3.7
400	31	7,586	-19.1	-30.3	07	4.0
350	31	8,569	-25.9	-37.0	08	3.9
300	31	9,664	-34.6	-45.7	08	3.9
250	31	10,910	-44.9		06	4.2
200	30	12,363	-56.7		05	5.2
175	29	13,198	-62.2		04	4.4
150	27	14,139	-66.9		05	4.6
125	28	15,232	-69.6		06	4.5
100	28	16,559	-70.3		08	6.4
80	27	17,891	-67.8		08	9.2
70	26	18,698	-66.4		08	12.6
60	26	19,636	-64.5		08	16.3
50	25	20,755	-62.0		09	19.7
40	22	22,146	-59.0		09	21.3
30	24	23,971	-54.8		09	21.2
25	24	25,146	-51.7		09	20.1
20	21	26,601	-49.7		09	21.2
15	18	28,502	-46.6		08	24.4
10	9	31,235	-42.2			

KING SALMON, AK 1010 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	24	15	9.5	6.6	15	1.1
1000	23	105	[illegible]	8.3	18	.6
950	24	529	9.6	5.7	11	.2
900	24	976	7.1	3.1	12	.0
850	24	1,444	4.7	.1	11	.9
800	24	1,937	2.2	-4.6	09	1.2
750	24	2,456	-.3	-9.3	07	1.1
700	24	3,005	-2.9	-14.6	05	.9
650	24	3,589	[illegible]	-17.4	36	[illegible]
600	24	4,212	-9.4	-20.4	36	[illegible]
550	24	4,880	-13.6	-25.4	34	2.3
500	24	5,598	-18.3	-30.7	32	3.2
450	24	6,376	-23.9	-35.5	30	3.6
400	24	7,225	[illegible]	-40.0	30	[illegible]
350	24	8,165	-36.9	-42.6	31	6.2
300	24	9,212	-44.4		30	6.4
250	24	10,416	-50.8		31	7.5
200	23	11,867	-50.4		31	6.5
175	23	12,739	-50.5		31	[illegible]
150	23	13,743	-50.9		31	4.5
125	22	14,929	-51.0		31	4.0
100	22	16,381	-50.9		31	2.6
80	20	17,837	-50.4		30	1.8
70	20	18,710	-50.1		[illegible]	1.1
60	20	19,717	-50.0		34	.5
50	20	20,910	[illegible]		[illegible]	.8
40	20	22,372	[illegible]		05	[illegible]
30	20	[illegible]	-48.1		[illegible]	[illegible]
25	18	25,459	-47.7		08	1.8
20	16	26,937	-46.4		07	1.9
15	12	28,881	-43.7		04	[illegible]

RAWINSONDE DATA

Average monthly values

KOROR, CAROLINE IS. [illegible] MB

Standard pressure surface (mb)	No. of observations	Geopotential height (meters)	Temperature (°C)	Dew point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (m/s)
SFC	[illegible]	30	27.9	24.2	17	1.1
1000	31	[illegible]	26.8	23.4	19	1.1
950	[illegible]	537	23.5	20.3	23	1.7
900	31	1,009	20.9	[illegible]	[illegible]	1.1
850	31	1,502	17.9	12.1	27	1.0
800	31	2,020	15.3	9.6	[illegible]	[illegible]
750	31	[illegible]	12.4	6.7	[illegible]	.4
700	[illegible]	3,141	9.2	[illegible]	11	1.7
650	31	[illegible]	5.9	.1	12	2.9
600	31	[illegible]	2.1	-3.1	12	[illegible]
550	31	5,104	-1.7	-7.0	12	[illegible]
500	31	[illegible]	-5.7	-12.1	11	4.9
450	31	6,677	-10.2	-17.8	10	5.4
400	31	7,576	-15.8	[illegible]	10	5.8
350	[illegible]	8,573	-22.3	-31.8	09	7.3
300	31	9,685	[illegible]	-40.6	08	[illegible]
250	[illegible]	10,953	-40.8	-51.0	06	11.1
200	31	12,430	[illegible]		[illegible]	14.5
175	31	13,277	-60.4		05	16.4
150	31	14,219	-68.2		05	18.3
125	31	15,295	-75.2		05	16.8
100	30	16,573	-76.8		08	11.9
80	30	17,876	-71.1		[illegible]	12.5
70	30	18,673	[illegible]		08	11.0
60	[illegible]	19,607	-64.8		09	8.1
50	[illegible]	[illegible]	-61.1		09	5.1
40	30	22,124	-59.3		08	3.9
30	[illegible]	23,942	-55.3		10	[illegible]
25	[illegible]	25,113	-53.0		09	3.7
20	[illegible]	[illegible]	-50.8		10	4.1
15	27	28,444	-48.4		11	[illegible]
10	18	31,127	-45.2		10	[illegible]

[illegible] 1011 MB

Standard pressure surface (mb)	No. of observations	Geopotential height (meters)	Temperature (°C)	Dew point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (m/s)
SFC	[illegible]	5	10.6	8.4	34	3.2
1000	12	99	10.5	6.0	34	2.8
950	12	528	10.8	3.9	[illegible]	1.7
900	12	[illegible]	7.8	1.9	[illegible]	1.1
850	12	1,446	4.8	-1.2	07	.4
800	12	1,938	2.0	-3.2	[illegible]	.3
750	12	[illegible]	-1.1	-6.4	32	1.6
700	12	3,004	-3.8	-13.0	[illegible]	2.2
650	12	3,586	-7.1	-14.8	33	2.7
600	[illegible]	4,206	-11.2	-17.5	34	2.7
550	12	4,870	-15.0	-23.9	[illegible]	2.8
500	12	5,584	-19.7	-29.7	[illegible]	[illegible]
450	12	6,358	-25.3	-34.5	[illegible]	2.9
400	12	7,202	-32.0	-40.6	34	3.7
350	12	8,133	-39.3	-46.4	35	5.3
300	12	9,168	-47.5		34	4.8
250	12	10,353	-54.0		33	4.7
200	12	11,792	-49.9		33	5.1
175	[illegible]	12,668	-48.8		[illegible]	[illegible]
150	12	13,682	[illegible]		33	3.7
125	12	[illegible]	-48.3		33	3.7
100	12	16,352	-48.3		34	2.8
80	12	17,822	-48.2		35	1.8
70	12	18,703	-47.9		36	1.4
60	12	19,721	-47.8		[illegible]	1.8
50	12	20,925	-47.7		02	2.2
40	12	22,401	-47.0		05	2.5
30	12	24,311	-45.9		06	2.8
25	12	25,527	-45.1		06	3.0
20	12	27,021	-44.0		07	3.8
15	9	28,984	-41.7			

[illegible]

Standard pressure surface (mb)	No. of observations	Geopotential height (meters)	Temperature (°C)	Dew point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (m/s)
SFC	[illegible]	5	23.0	[illegible]	06	1.0
1000	31	146	25.0	22.8	17	[illegible]
950	31	597	22.9	20.0	20	[illegible]
900	31	1,068	20.2	15.7	19	[illegible]
850	31	1,560	17.2	12.4	18	[illegible]
800	31	2,076	14.5	8.2	17	[illegible]
750	31	2,620	11.3	4.4	17	[illegible]
700	31	3,193	7.8	.1	16	[illegible]
650	31	3,801	[illegible]	-4.2	14	[illegible]
600	31	4,449	.6	-7.8	11	.9
550	31	5,143	-3.4	-14.3	08	[illegible]
500	31	5,891	-7.7	-19.0	09	[illegible]
450	31	6,704	-12.5	-25.5	07	[illegible]
400	31	7,593	-18.5	-30.3	[illegible]	[illegible]
350	31	8,578	-25.6	-38.0	15	[illegible]
300	31	9,675	-34.0	-45.0	08	[illegible]
250	[illegible]	10,926	-43.8		02	[illegible]
200	31	12,388	[illegible]		02	4.2
175	31	13,229	-60.8		02	4.7
150	31	[illegible]	-66.3		04	5.8
125	31	15,267	-70.5		05	5.5
100	31	16,593	-69.2		07	6.8
80	30	17,932	-66.2		08	7.1
70	30	[illegible]	-64.2		08	8.3
60	[illegible]	19,695	-62.0		08	10.9
50	[illegible]	20,831	-59.5		08	14.4
40	27	22,232	-56.8		09	16.6
30	23	24,070	-53.2		09	19.2
25	22	25,252	-50.9		09	19.9
20	20	26,717	-48.0		09	22.0
15	16	28,627	-44.7		08	25.2

[illegible]

Standard pressure surface (mb)	No. of observations	Geopotential height (meters)	Temperature (°C)	Dew point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (m/s)
SFC	[illegible]	[illegible]	[illegible]	.0	24	[illegible]
800	31	2,025	16.4	-1.5	[illegible]	1.1
750	31	2,571	13.5	-4.4	[illegible]	2.7
700	31	3,147	9.3	-7.6	[illegible]	5.4
650	31	3,756	4.6	-11.0	26	8.9
600	31	4,403	-.4	-14.9	26	10.9
550	31	5,092	-5.6	-19.1	26	11.8
500	31	5,832	-11.0	-23.8	[illegible]	13.1
450	31	6,633	-16.1	-31.5	25	14.7
400	31	7,509	-22.7	-36.7	25	16.8
350	31	8,477	-29.9	-42.3	26	20.1
300	31	[illegible]	-38.1	-49.3	26	22.3
250	31	10,786	-46.7		[illegible]	25.6
200	[illegible]	12,239	-54.7		26	27.2
175	31	13,088	-57.4		[illegible]	26.3
150	31	14,054	-60.9		26	[illegible]
125	30	15,182	-62.6		26	15.9
100	[illegible]	16,555	-62.9		26	[illegible]
80	30	17,938	-60.4		25	3.1
70	30	18,776	-57.7		23	1.5
60	30	19,751	-56.9		13	[illegible]
50	30	20,911	-55.1		[illegible]	2.6
40	[illegible]	22,342	-53.4		09	4.9
30	30	24,206	-50.7		08	7.2
25	30	25,399	-48.8		08	[illegible]
20	29	26,874	-46.5		09	10.4
15	24	28,789	-44.5		09	11.1
10	14	31,521	-40.8		10	11.1

[illegible] MB

Standard pressure surface (mb)	No. of observations	Geopotential height (meters)	Temperature (°C)	Dew point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (m/s)
SFC	[illegible]	36	24.1	[illegible]		[illegible]
1000	31	[illegible]	23.0	18.5	07	6.9
950	31	[illegible]	[illegible]	[illegible]		8.3
900	31	1,074	[illegible]	13.0	08	9.0
850	31	[illegible]	[illegible]	[illegible]		9.3
800	31	2,066	11.2	[illegible]		9.2
750	31	2,604	10.1	[illegible]		8.3
700	31	3,175	[illegible]	-13.4	09	7.1
650	[illegible]	3,783	5.1	-15.9	09	[illegible]
600	31	4,432	[illegible]	-18.8		3.6
550	31	5,127	-2.4	-22.6		2.0
500	31	5,877	-7.3	-26.4		.7
450	31	[illegible]	-12.9	-29.5	27	1.3
400	31	[illegible]	[illegible]	-34.8	26	3.9
350	31	8,554	-27.5	-40.9	26	6.6
300	[illegible]	9,641	-30.5	[illegible]	27	10.5
250	31	10,879	-46.2		27	14.4
200	31	12,325	-57.4		27	17.2
175	31	13,159	-62.2		27	[illegible]
150	31	14,103	-65.2		26	11.0
125	31	15,210	[illegible]		24	4.0
100	31	[illegible]	[illegible]			3.6
80	31	17,872	[illegible]		09	8.8
70	[illegible]	[illegible]	[illegible]			11.3
60	30	19,611	-65.0			13.9
50	[illegible]	20,729	-62.6		09	17.5
40	[illegible]	22,115	[illegible]			18.9
30	[illegible]	23,933	-56.3		09	20.5
25	[illegible]	[illegible]	-54.4		09	22.2
20	26	26,534	-51.1			23.8
15	23	28,419	-47.8		09	24.4
10	16	[illegible]	[illegible]			27.6

LITTLE ROCK, AR 1008 MB

Standard pressure surface (mb)	No. of observations	Geopotential height (meters)	Temperature (°C)	Dew point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (m/s)
SFC	31	79	21.7	20.6	18	.0
1000	31	[illegible]	23.0	21.9	21	.7
950	[illegible]	[illegible]	[illegible]	19.2	22	3.1
900	[illegible]	1,068	20.2	15.7	23	3.7
850	31	1,560	17.1	12.3	[illegible]	3.8
800	31	2,076	14.0	8.3	[illegible]	3.2
750	31	2,618	[illegible]	2.0	24	3.0
700	31	3,191	7.8	-2.6	24	2.4
650	[illegible]	3,799	4.6	-9.1	25	2.1
600	[illegible]	4,447	1.0	-13.0	25	[illegible]
550	31	5,141	-3.0	-18.1	26	2.2
500	[illegible]	5,890	-7.4	-22.5	28	2.0
450	31	6,703	-12.9	-28.1	28	[illegible]
400	31	7,590	-19.1	-34.9	27	2.0
350	31	8,575	-25.4	-40.4	30	[illegible]
300	30	9,672	-33.8	-47.3	30	3.7
250	[illegible]	10,924	-43.5		31	[illegible]
200	[illegible]	12,391	[illegible]		31	5.2
175	[illegible]	13,238	-59.5		32	[illegible]
150	30	14,189	-65.3		33	[illegible]
125	30	15,289	-68.6		35	[illegible]
100	30	16,623	-68.4		04	3.1
80	30	17,971	-64.6		07	4.3
70	[illegible]	18,791	-62.5		08	5.9
60	29	19,748	-60.3		08	7.9
50	29	20,891	-58.1		08	10.1
40	[illegible]	22,303	-55.8		09	12.4
30	27	24,150	-52.3		09	15.3
25	[illegible]	25,334	-50.3		09	17.0
20	26	26,800	-47.7		09	18.8
15	[illegible]	28,714	-44.7		09	21.0
10	10	31,447	-40.9			
7						

LONGVIEW, TX 1003 MB

Standard pressure surface (mb)	No. of observations	Geopotential height (meters)	Temperature (°C)	Dew point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (m/s)
SFC	31	124	22.5	[illegible]	20	1.3
1000	28	151	22.9	21.0	20	2.0
950	31	597	23.1	18.4	22	5.1
900	31	1,068	20.6	15.5	[illegible]	3.9
850	31	1,561	17.5	11.2	19	2.6
800	31	2,077	14.4	7.4	[illegible]	2.0
750	31	2,620	11.1	3.4	18	1.1
700	31	3,193	[illegible]	-1.4	16	.5
650	31	3,800	4.4	-6.8	23	.3
600	31	4,448	.8	-12.6	[illegible]	.5
550	31	5,142	-3.1	-16.4	[illegible]	.7
500	31	5,890	-7.8	-20.6	30	.7
450	31	6,702	-12.9	-26.7	[illegible]	.8
400	31	7,590	-18.5	-34.1	36	.9
350	31	8,576	-25.5	-40.3	[illegible]	2.2
300	30	9,673	-33.6	-47.6	32	2.8
250	30	10,927	-43.3		31	3.5
200	30	12,392	-54.5		34	4.7
175	30	13,236	-60.2		36	4.9
150	29	14,186	-65.6		02	4.6
125	29	15,281	-70.0		04	3.5
100	29	16,607	-69.6		[illegible]	5.3
80	29	17,950	-65.9		07	6.3
70	29	18,766	-63.6		[illegible]	7.9
60	29	19,717	-61.4		[illegible]	10.3
50	28	[illegible]	-58.5		09	12.5
40	27	[illegible]	-56.0		09	14.7
30	26	24,114	-52.4		09	16.8
25	24	25,301	-50.6		09	18.4
20	20	[illegible]	-48.6		09	21.7
15	15	[illegible]	-44.6		09	25.0

MCGRATH, AK 1001 MB

Standard pressure surface (mb)	No. of observations	Geopotential height (meters)	Temperature (°C)	Dew point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (m/s)
SFC	31	103	8.8	6.8	25	.6
1000	16	140	10.3	6.9	27	1.1
950	[illegible]	538	11.7	5.0	[illegible]	1.8
900	31	[illegible]	8.7	[illegible]	[illegible]	2.1
850	31	1,458	[illegible]	[illegible]	[illegible]	2.1
800	31	1,951	2.0	-3.1	23	2.1
750	31	2,469	-.8	-7.4	25	1.9
700	[illegible]	3,018	-3.9	-12.2	27	2.2
650	31	3,600	-6.8	-17.1	28	2.5
600	31	4,221	-10.1	-21.2	27	2.6
550	31	[illegible]	-14.5	-26.2	[illegible]	2.9
500	31	5,602	-19.4	-29.1	28	3.1
450	31	6,377	-24.5	-34.6	30	3.8
400	31	7,225	-30.7	-41.1	31	4.1
350	31	8,163	-37.6	-44.4	31	5.6
300	31	9,206	-45.5		32	7.4
250	30	10,399	-51.7		33	9.0
200	[illegible]	11,852	-49.6		33	7.3
175	30	12,727	-49.2		33	5.8
150	30	13,738	-49.7		30	5.4
125	30	14,932	-49.7		31	4.4
100	[illegible]	16,393	-49.8		31	3.8
80	29	17,855	-49.3		32	2.5
70	29	[illegible]	-48.9		33	2.0
60	28	19,744	-48.8		31	1.3
50	27	20,945	-48.1		36	1.3
40	27	[illegible]	-47.7		03	1.6
30	27	24,322	-46.8		05	2.0
25	26	25,534	-45.8		[illegible]	2.1
20	23	[illegible]	-44.3		05	3.1
15	14	28,996	-41.8		08	4.0
10	6	31,801	-37.1			

MAJURO, MARSHALL IS. [illegible] MB

Standard pressure surface (mb)	No. of observations	Geopotential height (meters)	Temperature (°C)	Dew point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (m/s)
SFC	[illegible]	3	27.6	24.0	[illegible]	2.9
1000	31	99	26.3	22.3	10	4.3
950	[illegible]	551	23.0	20.8	10	6.3
900	[illegible]	1,022	20.2	17.4	10	7.6
850	[illegible]	1,515	17.4	14.1	10	7.8
800	[illegible]	2,032	15.1	10.7	10	8.0
750	[illegible]	2,578	12.4	7.0	10	8.4
700	[illegible]	3,154	9.3	3.4	10	8.5
650	[illegible]	3,766	6.2	-.7	10	[illegible]
600	[illegible]	4,419	[illegible]	-4.1	10	8.4
550	[illegible]	5,118	-1.3	-9.9	09	[illegible]
500	[illegible]	5,873	-5.3	-14.5	09	6.8
450	[illegible]	6,694	-9.8	-19.2	10	5.6
400	[illegible]	7,594	-15.3	-25.1	09	4.2
350	30	8,593	-22.0	-31.9	[illegible]	[illegible]
300	30	9,706	-30.2	-40.4	10	1.7
250	30	10,976	-40.6	-48.0	16	.5
200	30	12,455	-53.2		[illegible]	3.1
175	30	13,302	-60.0		28	5.8
150	30	14,248	-67.6		28	[illegible]
125	30	15,330	-73.2		27	8.1
100	[illegible]	16,627	-74.1		10	2.7
80	[illegible]	17,938	-69.9		[illegible]	9.1
70	29	18,740	-66.7		09	7.9
60	29	19,679	-63.7		09	4.8
50	28	20,807	-60.6		10	2.6
40	28	22,206	-57.6		13	2.1
30	26	24,037	-54.7		12	1.6
25	26	25,212	-52.0		11	2.5
20	22	26,665	-50.2		12	2.7
15	21	28,562	-46.9		12	4.5

[illegible] MB

Standard pressure surface (mb)	No. of observations	Geopotential height (meters)	Temperature (°C)	Dew point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (m/s)
SFC	31	[illegible]	12.7	[illegible]	30	.5
950	31	582	15.1	6.7	30	.7
900	31	1,040	[illegible]	5.2	29	.8
850	[illegible]	1,520	11.7	[illegible]	29	.5
800	31	2,026	10.5	-3.7	[illegible]	[illegible]
750	31	[illegible]	[illegible]	-7.7	[illegible]	[illegible]
700	31	3,126	[illegible]	-11.4	25	5.6
650	31	3,726	[illegible]	-14.4	26	[illegible]
600	[illegible]	4,366	-2.4	-19.4	26	[illegible]
550	31	5,050	[illegible]	-23.3	[illegible]	8.8
500	31	5,787	-11.8	-27.9	26	10.3
450	31	6,586	-17.4	[illegible]	26	11.4
400	[illegible]	7,457	-23.8	-38.3	26	12.8
350	31	8,421	[illegible]	-45.3	27	13.9
300	31	9,493	-39.4	-51.3	27	15.7
250	[illegible]	10,716	-47.9		26	18.0
200	30	12,166	-54.2		26	20.1
175	30	13,019	-55.9		25	19.4
150	30	13,994	[illegible]		25	[illegible]
125	30	15,135	-60.3		26	13.8
100	[illegible]	16,526	-60.4		26	[illegible]
80	30	[illegible]	-58.7		26	4.4
70	[illegible]	18,764	-57.3		26	1.2
60	29	19,742	-56.2		12	.8
50	[illegible]	20,903	-55.2		09	2.4
40	29	22,334	[illegible]		09	4.8
30	29	24,195	-51.2		09	8.0
25	28	25,384	-49.8		09	9.1
20	[illegible]	26,853	-47.5		09	10.8
15	24	28,760	-44.7		09	12.5
10	[illegible]	31,495	[illegible]		09	14.0
7	[illegible]	[illegible]	-37.6			

MERIDA, MEXICO 1014 MB

Standard pressure surface (mb)	No. of observations	Geopotential height (meters)	Temperature (°C)	Dew point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (m/s)
SFC	[illegible]	[illegible]	22.8	22.4	09	.8
1000	31	130	24.7	23.2	11	3.8
950	[illegible]	581	23.4	19.2	12	[illegible]
900	[illegible]	1,053	20.9	14.6	12	[illegible]
850	[illegible]	1,546	18.0	10.2	12	5.8
800	[illegible]	2,063	[illegible]	5.5	11	5.1
750	[illegible]	2,608	12.3	2.0	11	5.3
700	[illegible]	[illegible]	8.7	-1.7	11	5.1
650	[illegible]	3,792	4.9	-3.7	11	4.5
600	[illegible]	4,441	1.0	-8.4	11	4.3
550	[illegible]	5,136	-3.0	-12.7	10	4.0
500	[illegible]	[illegible]	-7.2	-19.9	08	3.7
450	[illegible]	[illegible]	-12.1	-23.2	07	[illegible]
400	[illegible]	7,590	-17.8	-29.0	06	3.5
350	[illegible]	8,579	-24.7	-37.2	05	3.6
300	[illegible]	9,679	-33.1	-45.6	04	[illegible]
250	[illegible]	10,934	-43.3		[illegible]	[illegible]
200	[illegible]	12,396	-55.5		02	3.6
175	[illegible]	13,236	-61.6		36	[illegible]
150	30	14,175	-68.2		[illegible]	[illegible]
125	30	15,259	-71.5		01	4.9
100	30	16,577	-71.5		05	6.1
80	30	17,902	-69.0		07	7.9
70	30	18,705	-66.8		08	9.2
60	30	[illegible]	-64.3		08	10.7
50	30	20,765	-61.4		09	13.3
40	30	22,160	-58.4		09	14.0
30	27	23,986	-54.8		09	15.8
25	27	[illegible]	-52.0		[illegible]	15.2
20	25	26,615	-48.7		[illegible]	16.6
15	[illegible]	28,513	-45.8		[illegible]	15.4
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MIAMI, FL 1018 MB

Standard pressure surface (mb)	No. of observations	Geopotential height (meters)	Temperature (°C)	Dew point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (m/s)
SFC	31	4	[illegible]	24.7	07	1.4
1000	31	160	25.9	22.6	10	2.9
950	31	611	22.5	19.3	11	4.7
900	31	1,081	20.0	15.4	11	4.8
850	31	1,573	17.2	10.7	11	4.4
800	[illegible]	2,089	14.2	7.2	11	3.7
750	31	2,631	11.3	2.5	11	3.6
700	31	3,205	7.9	-3.2	10	3.1
650	[illegible]	3,813	4.4	-5.9	12	3.0
600	[illegible]	4,460	.4	-9.3	12	3.5
550	[illegible]	5,153	-3.6	-14.3	12	3.5
500	31	5,899	-8.2	-20.2	12	3.3
450	[illegible]	6,710	-13.1	-24.7	12	3.6
400	[illegible]	7,598	-19.0	-30.8	10	3.9
350	31	8,581	-25.9	-38.8	09	3.9
300	31	9,675	-34.5	-46.1	07	4.2
250	31	10,923	-44.8		06	5.1
200	30	12,379	-56.2		[illegible]	[illegible]
175	30	13,216	-61.7		06	6.0
150	[illegible]	14,160	-66.2		06	6.6
125	30	15,258	-68.9		07	5.3
100	29	16,589	-68.9		[illegible]	6.3
80	29	17,927	-67.2		08	9.3
70	29	18,736	-65.4		[illegible]	12.3
60	29	19,679	-63.3		08	15.5
50	28	20,808	-60.6		09	17.9
40	27	22,207	-58.0		10	19.9
30	[illegible]	24,036	-53.7		09	21.2
25	26	25,217	-50.7		[illegible]	21.6
20	23	26,676	-48.2		09	22.2
15	20	28,581	-46.0		[illegible]	26.0

MIDLAND, TX 918 MB

Standard pressure surface (mb)	No. of observations	Geopotential height (meters)	Temperature (°C)	Dew point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (m/s)
SFC	30	[illegible]	19.8	16.3	14	1.4
900	[illegible]	1,041	21.3	15.9	17	4.5
850	30	1,537	[illegible]	[illegible]	18	7.9
800	30	2,058	17.2	7.1	18	3.6
750	30	2,606	13.8	2.1	13	2.0
700	30	3,184	10.0	-2.2	10	1.9
650	30	3,796	6.3	-7.6	08	2.4
600	[illegible]	4,447	1.9	-12.1	08	2.7
550	30	5,144	-2.4	-15.9	[illegible]	3.1
500	30	[illegible]	-7.0	-20.2	[illegible]	3.0
450	30	6,708	-12.0	-25.8	07	2.8
400	30	7,599	-18.2	-32.5	[illegible]	2.5
350	[illegible]	8,587	-25.1	-39.4	05	3.3
300	29	9,685	-33.8	-46.0	02	3.7
250	29	10,938	-43.2		36	4.7
200	[illegible]	12,403	[illegible]		36	4.3
175	[illegible]	13,247	-60.6		[illegible]	[illegible]
150	26	14,193	-66.3		02	3.6
125	26	15,286	-70.5		[illegible]	2.7
100	[illegible]	16,607	-70.5		07	4.4
80	26	17,943	-66.3		09	6.1
70	25	18,758	-64.5		09	8.3
60	[illegible]	19,708	-61.9		09	10.5
50	23	20,844	-59.2		09	12.4
40	23	22,253	-56.4		09	14.8
30	[illegible]	24,094	-53.1		09	17.8
25	[illegible]	25,277	-50.6		09	19.4
20	[illegible]	26,740	-47.4		09	20.7
15	19	28,656	-44.0		09	23.1
10	12	31,400	-39.2			

MONTERREY, MEXICO 964 MB

Standard pressure surface (mb)	No. of observations	Geopotential height (meters)	Temperature (°C)	Dew point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (m/s)
SFC	29	[illegible]	22.3	20.9	09	.9
950	29	580	21.8	[illegible]	11	2.0
900	29	1,049	19.4	[illegible]	14	4.4
850	29	1,541	17.5	13.5	14	6.1
800	29	2,058	15.8	6.9	14	5.8
750	29	2,605	[illegible]	1.9	14	4.1
700	29	3,181	9.4	-1.1	13	2.3
650	29	3,792	5.7	-4.6	11	1.5
600	29	4,442	1.5	-7.9	[illegible]	1.7
550	29	5,138	-2.6	-12.0	09	2.4
500	29	5,888	-7.2	-17.9	09	3.0
450	28	6,703	-12.0	-23.1	[illegible]	3.4
400	28	7,594	-17.7	-30.2	09	3.9
350	28	8,584	-24.4	-36.6	08	3.4
300	[illegible]	9,686	-32.6	-45.3	[illegible]	2.8
250	28	10,943	-42.8		[illegible]	2.9
200	28	12,409	-54.8		[illegible]	6.6
175	27	13,250	-61.0		[illegible]	7.1
150	[illegible]	14,193	-66.9		[illegible]	7.7
125	27	15,281	-71.7		[illegible]	7.8
100	27	16,595	-71.9		06	8.4
80	27	17,923	-68.1		08	11.5
70	27	18,730	-65.6		[illegible]	11.6
60	25	19,670	-63.8		08	13.5
50	23	20,794	-61.6		08	15.4
40	21	22,186	-59.0		09	19.8
30	18	24,013	-54.9		09	19.6
25	18	25,185	-52.7		09	21.2
20	17	26,638	-49.9		[illegible]	21.7
15	15	[illegible]	-45.8		09	24.1
10	11	[illegible]	-42.1			

MONETT, MO [illegible] MB

Standard pressure surface (mb)	No. of observations	Geopotential height (meters)	Temperature (°C)	Dew point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (m/s)
SFC	31	438	20.3	[illegible]	17	[illegible]
950	31	[illegible]	[illegible]	17.9	20	3.4
900	31	1,058	20.4	14.5	23	5.6
850	31	1,550	17.4	11.0	24	4.5
800	31	2,067	14.6	5.9	26	3.2
750	31	2,610	11.6	1.3	30	2.3
700	31	3,184	8.1	-2.9	29	1.5
650	31	3,791	4.3	-7.3	[illegible]	1.3
600	31	4,439	.4	-12.1	31	1.0
550	31	5,131	-3.8	-17.6	26	1.6
500	31	5,879	-7.7	-21.7	27	2.3
450	31	6,690	-13.3	[illegible]	26	[illegible]
400	31	7,576	-19.5	-33.1	[illegible]	3.3
350	[illegible]	[illegible]	[illegible]	-38.9	31	4.6
300	31	9,651	-34.0	-46.1	31	[illegible]
250	[illegible]	[illegible]	-44.2		30	[illegible]
200	31	12,360	-54.6		30	9.2
175	31	13,205	-59.9		30	8.7
150	30	14,154	-65.1			7.2
125	30	15,254	-68.5		29	5.1
100	[illegible]	[illegible]	[illegible]		33	1.9
80	[illegible]	[illegible]	[illegible]		06	[illegible]
70	29	18,762	-62.2			4.4
60	[illegible]	19,721	-59.9			[illegible]
50	[illegible]	[illegible]	[illegible]		09	6.4
40	29	22,287	[illegible]		09	10.7
30	27	24,137	-51.7		09	[illegible]
25	24	25,327	-49.4		09	14.6
20	[illegible]	26,794	-46.0		09	16.5
15	16	28,712	-44.3		[illegible]	18.4

RAWINSONDE DATA

Average monthly values

AUGUST 1975

NASHVILLE, TN 998 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC		[illegible]	21.5	[illegible]	[illegible]	[illegible]
1000	7	193	21.8	[illegible]		
950	31	[illegible]	[illegible]	17.7	22	4.0
900	31	1,077	19.2	14.8	23	4.7
850	31	[illegible]	16.0	11.6	23	4.1
800	31	[illegible]	13.1	7.7	[illegible]	3.8
750	31	[illegible]	10.0	[illegible]	[illegible]	[illegible]
700	31	3,192	6.6	.2	22	[illegible]
650	31	[illegible]	3.2	-4.7	[illegible]	[illegible]
600	31	4,442	-.2	-10.9	23	[illegible]
550	31	5,134	-3.9	-16.2	[illegible]	4.0
500	31	[illegible]	-8.2	-20.1	25	4.7
450	31	6,692	-13.2	-25.9	25	4.9
400	31	7,578	-19.1	-32.8	25	5.3
350	30	8,558	-26.2	-38.9	27	5.8
300	30	9,651	-34.6	-47.5	26	[illegible]
250	[illegible]	10,900	-44.1		27	6.9
200	30	12,362	-54.8		[illegible]	7.2
175	[illegible]	[illegible]	-60.2		29	5.7
150	30	14,156	-65.0		30	[illegible]
125	[illegible]	15,257	-68.4		33	3.2
100	[illegible]	[illegible]	-67.0		[illegible]	.7
80	[illegible]	17,957	-63.5		[illegible]	3.7
70	[illegible]	18,780	-61.8		07	5.0
60	30	19,740	-59.5		08	7.1
50	[illegible]	20,888	-57.2		[illegible]	[illegible]
40	[illegible]	22,308	-54.8		09	11.3
30	[illegible]	[illegible]	-51.3		09	13.6
25	[illegible]	25,353	-49.4		09	15.4
20	[illegible]	26,825	-46.7		[illegible]	17.8
15	29	[illegible]	-43.8		[illegible]	19.6
10	[illegible]	31,492	-39.7			
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* NOME, AK 1012 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	[illegible]	5	8.6	6.3	30	1.1
1000	[illegible]	102	10.1	6.6	28	1.3
950	31	[illegible]	[illegible]	4.4	24	2.2
900	[illegible]	975	7.1	.5	25	2.5
850	31	1,443	4.9	-2.1	24	2.4
800	31	1,936	[illegible]	-4.8	25	2.3
750	31	2,456	.0	-8.6	27	2.1
700	31	[illegible]	-3.2	-13.0	28	2.1
650	31	3,589	-6.3	-17.2	28	2.2
600	31	4,211	-9.7	-21.2	29	2.4
550	31	4,878	-13.5	-25.1	[illegible]	3.4
500	31	5,596	-18.2	-28.9	30	4.3
450	31	6,375	-23.4	-34.0	29	[illegible]
400	31	7,226	-29.7	-38.6	29	6.0
350	[illegible]	8,167	-36.9	-45.1	29	6.5
300	31	9,213	-44.9		30	7.3
250	31	10,411	-52.4		30	7.8
200	31	11,852	-51.5		31	6.4
175	31	12,722	-50.2		31	5.0
150	[illegible]	13,729	-50.3		30	3.8
125	31	14,920	-50.4		[illegible]	3.9
100	31	16,376	-50.1		31	3.0
80	31	17,835	-49.7		33	2.1
70	31	18,711	-49.3		33	1.9
60	31	19,721	-49.4		34	1.5
50	31	20,918	-48.9		[illegible]	1.5
40	31	22,386	-48.4		03	1.1
30	[illegible]	24,285	-47.2		04	1.7
25	31	25,493	-46.8		05	2.5
20	30	26,981	-45.8		06	2.5
15	25	28,932	-43.7		07	3.7
10	17	31,719	-39.9		07	5.3
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NORTH PLATTE, NE [illegible] MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	847	16.2	12.2	[illegible]	.6
1000						
950						
900	31	1,016	19.0	12.2	17	1.2
850	31	1,510	[illegible]	6.6	22	3.5
800	31	2,033	18.7	2.6	23	4.8
750	31	2,583	15.1	-.2	24	5.0
700	31	3,163	10.7	-4.1	[illegible]	5.0
650	31	3,776	5.9	-7.0	[illegible]	5.3
600	31	4,425	.6	-9.8	26	5.8
550	31	5,117	-4.6	-13.5	27	7.4
500	31	5,859	-10.1	-19.0	27	8.4
450	31	6,665	-14.6	-28.2	26	10.3
400	31	7,546	-20.9	-33.7	27	12.2
350	31	8,522	-28.0	-41.2	27	14.7
300	31	9,606	-36.5	-47.8	[illegible]	17.5
250	31	10,847	-45.3		27	19.3
200	31	12,306	-54.2		27	21.0
175	31	13,153	-58.7		[illegible]	20.2
150	31	14,112	-62.7		27	[illegible]
125	31	15,229	-65.0		[illegible]	13.1
100	31	16,588	-64.9		[illegible]	7.4
80	31	17,962	-61.2		26	2.3
70	31	18,795	-59.2		06	.4
60	[illegible]	19,765	-57.7		08	2.0
50	30	20,923	-55.4		[illegible]	4.6
40	30	22,353	-53.3		[illegible]	6.0
30	30	24,218	-50.6		09	8.5
25	[illegible]	25,411	-49.0		09	9.7
20	27	26,880	-46.9		08	11.3
15	24	[illegible]	-43.7		09	12.9
10	19	31,557	-39.6		09	15.1
7	[illegible]	34,000	-36.7			

OAKLAND, CA 1015 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	[illegible]	6	13.8	11.9	29	.8
1000	30	127	13.6	11.1	26	1.2
950	30	561	16.5	6.1	26	2.3
900	30	1,025	19.9	-.6	29	2.6
850	30	1,516	18.2	-3.3	29	1.6
800	29	2,032	15.0	-5.0	27	1.5
750	29	2,574	11.7	-8.	25	2.0
700	[illegible]	3,147	8.4	-12.6	25	[illegible]
650	29	3,756	4.8	-15.4	26	4.0
600	29	4,403	.8	-18.8	26	4.5
550	29	5,096	-4.0	-23.1	26	5.6
500	29	5,840	-9.2	-27.4	26	7.3
450	29	6,646	-14.9	-31.9	27	[illegible]
400	29	7,526	-21.4	[illegible]	27	[illegible]
350	29	8,499	-28.9	-43.6	26	11.4
300	28	9,578	-37.6	-49.6	26	12.9
250	28	10,812	-46.1		26	15.2
200	28	12,270	-53.9		25	18.1
175	[illegible]	13,120	-57.5		25	18.0
150	[illegible]	14,086	-61.1		25	16.5
125	28	15,209	-64.4		25	13.0
100	[illegible]	16,570	-64.5		26	7.0
80	27	17,937	-62.6		24	1.1
70	27	18,764	-60.5		10	1.2
60	27	19,728	-59.1		09	3.8
50	[illegible]	20,877	-57.2		09	5.6
40	26	22,294	-55.4		08	8.9
30	26	24,140	-52.8		09	12.0
25	[illegible]	25,322	-51.1		09	13.8
20	23	26,779	-48.6		09	15.1
15	17	28,678	-45.9		09	16.8
10	13	31,390	-42.8		09	19.7
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OMAHA, NE 968 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	403	20.6	16.4	17	1.4
1000						
950	31	564	21.5	15.2	18	3.5
900	31	1,034	21.4	[illegible]	22	6.5
850	31	1,528	19.4	7.0	24	6.3
800	31	2,048	16.3	4.7	25	5.6
750	31	2,593	12.4	2.2	26	5.4
700	31	3,168	8.0	-1.7	26	5.8
650	31	3,776	4.3	-6.3	26	6.6
600	31	4,422	.0	-11.4	27	7.2
550	31	5,114	-4.4	-16.5	27	8.2
500	31	5,858	[illegible]	-22.0	27	8.8
450	31	6,666	-14.1	-27.7	27	9.7
400	31	7,549	-20.4	-33.3	27	11.3
350	31	8,527	-27.4	-40.2	28	12.7
300	31	9,615	-35.7	-48.4	28	15.6
250	31	10,859	-44.9		28	17.0
200	31	12,318	-54.6		27	16.8
175	31	13,164	-59.1		27	17.1
150	31	14,122	-62.7		27	15.3
125	31	15,240	-64.9		27	11.8
100	31	16,601	-64.2		28	6.4
80	31	17,976	-61.5		29	1.6
70	31	18,810	-58.9		04	.8
60	30	19,781	-57.3		07	2.7
50	30	20,940	-55.1		09	5.0
40	29	22,374	-52.7		09	6.9
30	[illegible]	24,245	-49.8		09	9.7
25	21	25,434	-47.8		09	10.5
20	16	26,914	-45.7		09	11.8
15	13	28,847	-42.5		09	12.3
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+ PAGO PAGO, AMERICAN SAMOA 1014 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	[illegible]	5	28.0	22.8	09	[illegible]
1000	31	125	26.0	20.3	09	[illegible]
950	31	[illegible]	22.1	18.5	08	6.1
900	31	1,044	18.7	15.2	08	6.6
850	[illegible]	1,534	16.0	9.9	08	[illegible]
800	31	2,048	14.3	4.7	08	5.3
750	[illegible]	2,592	12.0	.0	08	[illegible]
700	31	3,167	8.8	-3.9	08	3.6
650	31	3,776	5.5	-9.8	09	2.8
600	31	4,426	1.9	-14.2	09	2.3
550	31	[illegible]	-1.7	-20.9	09	1.8
500	[illegible]	5,876	-6.1	-25.6	11	1.3
450	31	6,692	-11.5	-29.4	14	1.1
400	31	7,585	-17.4	-33.9	21	1.8
350	31	8,575	-24.4	-39.7	23	4.3
300	31	9,675	-33.0	-47.2	24	[illegible]
250	31	[illegible]	-43.0		24	7.6
200	31	12,397	-54.7		24	9.2
175	[illegible]	13,240	-60.8		24	9.1
150	31	14,184	-67.0		23	7.9
125	31	15,268	-73.1		24	[illegible]
100	31	16,564	-75.4		23	[illegible]
80	[illegible]	17,868	-70.5		24	1.2
70	[illegible]	18,670	-66.4		29	1.4
60	31	19,608	-64.5		34	.2
50	31	20,729	-62.2		07	.4
40	[illegible]	22,113	-60.1		29	2.3
30	28	23,921	-56.5		29	4.7
25	26	25,086	-54.3		28	5.1
20	[illegible]	26,531	-51.0		28	6.1
15	19	28,415	-46.8		28	9.4
10	13	31,127	-42.9			
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* PEORIA, IL 994 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	200	19.2	17.4	20	.3
1000						
950	31	589	21.1	14.3	25	3.0
900	31	1,057	19.0	11.6	26	3.6
850	31	1,546	16.2	8.1	26	3.6
800	31	2,060	13.4	4.7	26	3.7
750	31	2,600	10.2	.2	[illegible]	4.6
700	31	3,171	6.9	-4.8	[illegible]	4.8
650	31	3,777	3.4	-8.5	26	4.9
600	31	4,422	[illegible]	-13.0	26	5.9
550	31	5,112	-4.4	-18.1	27	6.5
500	31	5,857	-8.8	-24.9	27	7.0
450	31	6,666	-13.9	-30.6	[illegible]	8.4
400	31	7,549	-20.3	-35.1	28	9.4
350	31	8,528	-27.2	-40.4	29	10.1
300	31	9,617	-35.6	-48.0	28	11.5
250	31	10,860	-45.0		28	12.6
200	31	12,319	-54.9		28	14.6
175	31	13,164	-59.3		28	14.9
150	31	14,120	-63.4		28	12.7
125	31	15,232	-65.9		28	10.2
100	31	16,586	-65.2		29	5.5
80	31	17,955	-62.5		33	1.8
70	31	18,784	-59.7		05	2.4
60	31	19,752	-57.9		08	3.8
50	31	20,908	-55.7		08	5.5
40	31	22,337	-53.4		09	7.5
30	31	24,204	-50.2		09	10.3
25	29	25,397	-48.3		09	11.6
20	29	26,877	-45.5		09	13.6
15	23	[illegible]	-42.5		09	15.0
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* PITTSBURGH, PA 977 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	359	[illegible]	16.1	24	.8
1000						
950	31	602	[illegible]	15.0	27	2.3
900	31	1,068	18.3	13.2	28	4.2
850	31	1,557	15.5	9.0	29	5.8
800	31	2,070	12.8	4.5	28	7.1
750	31	2,610	9.6	.4	28	8.2
700	[illegible]	3,179	6.2	-4.6	28	9.1
650	31	3,784	3.3	-8.4	28	9.9
600	31	4,429	-.5	-11.5	28	9.6
550	31	5,120	-4.2	-15.9	27	10.4
500	31	5,866	-8.6	-21.5	27	11.2
450	31	6,675	-13.5	-26.4	27	11.3
400	29	7,558	-19.6	-32.1	27	11.9
350	29	8,539	-26.8	-39.5	27	12.5
300	29	9,629	-35.3	-46.7	27	14.0
250	29	10,873	-45.2		27	15.4
200	28	12,327	-55.2		28	17.7
175	27	13,166	-59.8		28	15.9
150	27	14,120	-63.4		28	13.4
125	27	15,233	-65.5		29	10.1
100	26	16,597	-63.6		29	5.2
80	25	17,977	-60.4		32	1.9
70	25	18,813	-58.8		01	1.3
60	25	19,785	-57.0		06	3.1
50	[illegible]	20,945	-55.1		08	5.4
40	25	22,378	-52.8		09	8.1
30	24	24,249	-49.4		09	10.2
25	20	25,448	-47.4		09	11.6
20	14	26,929	-45.5		09	13.2
15						
10						
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+ PONAPE, CAROLINE IS. 1005 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	39	28.2	24.2	08	2.0
1000	31	83	26.5	22.1	09	2.3
950	31	535	23.2	19.9	10	4.5
900	31	1,006	20.1	16.7	10	6.3
850	31	1,498	17.3	13.0	10	7.1
800	31	2,016	15.0	10.3	09	6.8
750	31	2,561	12.2	6.8	09	6.7
700	31	3,137	9.0	3.3	09	7.5
650	31	3,748	5.8	-.2	09	8.4
600	31	4,400	2.2	-3.3	09	8.3
550	31	5,098	-1.6	-7.1	09	7.8
500	31	5,853	-5.5	-12.1	09	6.8
450	31	6,673	-10.1	-19.0	09	6.9
400	31	7,572	-15.7	-26.4	09	5.4
350	31	8,569	-22.5	-34.1	09	5.0
300	31	9,679	-30.8	-42.5	10	4.4
250	30	10,947	-41.1		08	2.3
200	30	12,422	-53.9		03	1.0
175	30	13,266	-60.7		32	2.2
150	30	14,208	-68.4		29	4.6
125	29	15,283	-74.9		26	5.2
100	29	16,568	-75.7		09	3.0
80	28	17,871	-71.3		09	9.2
70	28	18,669	-67.2		09	8.9
60	28	19,605	-64.9		09	6.1
50	28	20,727	-61.5		10	2.8
40	28	22,118	-59.0		12	1.7
30	27	23,940	-54.8		13	1.9
25	25	25,109	-53.5		13	2.5
20	25	26,554	-50.7		12	2.6
15	24	28,440	-48.4		11	3.0
10	13	31,128	-45.1			
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PORTLAND, ME 1014 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	20	16.8	15.2	36	[illegible]
1000	31	139	17.9	11.9	36	2.2
950	31	579	17.7	7.8	36	3.8
900	31	1,040	15.3	6.5	35	4.2
850	31	1,522	12.2	4.9	34	4.4
800	31	2,029	9.6	-.6	31	4.3
750	31	2,562	7.2	-4.5	30	5.5
700	31	3,127	4.3	-8.7	30	7.4
650	31	3,728	1.4	-12.6	29	9.2
600	31	4,368	-2.2	-16.3	29	10.8
550	31	5,053	-6.5	-20.6	29	12.3
500	31	5,792	-11.1	-25.9	29	14.0
450	31	6,593	-16.2	-30.6	29	16.3
400	31	7,470	-22.1	-35.1	29	18.4
350	31	8,442	-28.9	-41.2	29	21.0
300	31	9,523	-37.1	-48.4	29	23.4
250	31	10,759	[illegible]		29	25.9
200	31	12,214	-54.3		28	26.9
175	31	13,064	-57.4		28	23.4
150	31	14,032	-59.8		29	20.0
125	31	15,168	-61.0		28	13.7
100	31	16,557	-59.7		28	9.2
80	31	17,959	-57.5		30	4.4
70	31	18,806	-56.0		34	1.8
60	31	19,790	-54.6		06	[illegible]
50	31	20,962	-53.2		08	3.6
40	31	22,405	-51.6		09	5.8
30	31	24,282	-49.4		09	8.4
25	29	25,481	-47.9		09	10.0
20	29	26,961	-45.8		09	12.0
15	22	28,897	-43.2		09	13.5
10	5	31,618	-39.8			
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* QUILLAYUTE, WA 1011 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	58	11.7	10.9	19	.6
1000	28	151	11.5	10.6	20	.7
950	30	572	10.2	[illegible]	22	3.0
900	30	1,022	8.8	5.1	23	3.4
850	30	1,494	7.1	1.5	24	4.2
800	30	1,991	5.3	-3.2	26	4.9
750	30	2,517	2.8	-6.0	26	5.8
700	30	3,072	-.1	-11.3	26	6.7
650	30	3,663	-3.1	-15.6	26	7.7
600	30	4,292	-6.9	-19.2	26	8.7
550	30	[illegible]	-11.2	-24.7	26	[illegible]
500	30	5,691	-15.8	-28.7	26	11.4
450	30	6,478	-21.0	-32.7	26	12.7
400	30	7,337	-27.1	-38.7	26	14.7
350	29	8,291	-34.3	-44.3	27	16.7
300	29	9,349	-42.0		27	19.0
250	29	10,562	-50.1		27	19.5
200	28	12,005	-54.6		27	19.7
175	28	12,860	-54.3		27	19.4
150	28	13,848	-54.6		26	16.5
125	27	[illegible]	-55.6		26	14.1
100	27	16,435	-55.4		26	9.6
80	27	17,861	-54.5		25	5.5
70	27	18,717	-54.3		25	3.8
60	25	19,703	-53.6		25	1.0
50	23	20,879	-52.8		13	1.2
40	21	22,325	-51.7		09	2.6
30	21	24,200	-49.7		08	5.1
25	19	25,393	-47.9		08	5.6
20	17	26,875	-46.1		09	7.6
15	14	28,796	-43.8		09	8.5
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7						

RAPID CITY, SD 906 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	966	14.9	8.4	32	1.2
1000						
950						
900	29	1,025	16.2	8.4	32	1.2
850	31	1,507	17.6	4.1	25	2.5
800	31	2,025	16.2	.7	[illegible]	4.7
750	31	2,571	13.0	-2.8	[illegible]	6.7
700	31	3,146	[illegible]	-5.7	25	7.7
650	31	3,755	4.2	-8.7	26	8.9
600	31	4,400	-.9	-12.0	26	10.3
550	31	5,088	-6.4	-14.8	26	10.7
500	31	5,826	-11.3	-22.2	26	11.8
450	31	6,627	-16.8	-29.2	26	13.3
400	31	7,500	-23.1	-36.7	26	15.2
350	31	8,468	-30.2	-42.5	[illegible]	18.2
300	31	9,543	-38.7	-49.2	26	21.8
250	31	10,772	-46.8		26	24.7
200	31	12,226	-54.5		26	26.4
175	31	13,076	-57.3		26	25.6
150	31	14,043	-60.4		26	22.2
125	31	15,175	-62.0		[illegible]	16.1
100	31	16,553	-61.6		26	9.6
80	[illegible]	17,940	-59.4		26	4.2
70	[illegible]	18,780	-57.5		24	1.7
60	30	19,755	-56.5		[illegible]	.3
50	30	20,917	-54.6		08	1.7
40	29	22,351	-52.6		08	4.2
30	28	24,220	-50.2		09	6.0
25	25	25,419	-48.3		09	7.4
20	[illegible]	26,893	-46.3		09	8.6
15	15	28,829	-43.9		09	11.2
10	6	31,598	-40.5			
7						

ST CLOUD, MN 980 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	316	14.4	12.2	10	.5
1000						
950	31	578	17.6	10.9	16	1.9
900	31	1,040	16.1	7.4	23	3.3
850	31	1,524	13.6	5.5	26	5.2
800	31	2,034	11.9	.4	27	6.2
750	31	2,572	9.1	-4.2	27	[illegible]
700	31	3,140	5.3	-7.0	27	10.2
650	31	3,741	1.5	-11.0	27	11.3
600	31	4,381	-2.5	-14.5	27	13.1
550	31	5,066	-7.0	-18.9	27	13.6
500	31	5,803	-11.6	-24.6	27	15.4
450	31	6,603	-16.5	-29.3	27	17.1
400	31	7,478	-22.9	-35.4	27	19.1
350	31	8,446	-29.9	-41.0	27	20.7
300	31	9,522	-38.4	-48.4	27	23.7
250	31	10,752	-47.4		27	26.3
200	31	12,202	-54.7		27	30.2
175	31	13,051	-57.2		27	26.5
150	31	14,020	-59.8		27	22.3
125	31	15,154	-61.4		27	16.8
100	31	16,543	-60.1		27	9.2
80	31	17,940	-58.2		28	4.8
70	31	18,784	-57.0		29	1.7
60	31	19,762	-55.9		02	1.1
50	31	20,929	-54.0		08	3.9
40	31	22,369	-51.8		08	4.6
30	30	24,245	-49.3		09	7.7
25	28	25,448	-47.3		09	8.2
20	27	26,933	-45.1		09	9.4
15	26	28,867	-42.4		09	11.3
10	7	31,637	-37.7			
7						

* ST PAUL ISLAND, AK 1014 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	10	7.7	7.3	02	.6
1000	29	131	7.9	6.6	27	.2
950	31	546	7.2	4.3	12	.7
900	31	992	6.7	3.2	12	.9
850	31	1,460	5.2	-1.5	10	.4
800	31	1,955	3.6	-4.7	28	.3
750	31	2,476	1.2	-8.2	28	.9
700	31	3,029	-1.9	-12.1	28	1.2
650	31	3,616	-4.6	-15.2	28	2.3
600	31	4,242	-8.2	-20.2	29	2.9
550	31	4,912	-12.3	-23.9	29	3.1
500	31	5,634	-17.1	-30.8	29	3.5
450	31	6,417	-22.3	-34.6	29	3.8
400	31	7,271	-28.6	-40.3	28	4.5
350	31	8,216	-35.8	-45.3	29	5.8
300	31	9,267	-43.8	-47.8	30	6.3
250	31	10,474	-49.9		30	7.8
200	31	11,928	-51.1		29	7.1
175	31	12,797	-51.1		29	7.2
150	31	13,798	-51.7		29	6.9
125	31	14,979	-52.4		29	6.1
100	31	16,422	-52.4		29	3.8
80	31	17,867	-51.9		30	2.4
70	31	18,733	-51.5		32	1.9
60	31	19,736	-51.0		35	1.2
50	31	20,924	-50.2		04	1.0
40	31	22,384	-49.6		05	1.4
30	30	24,272	-48.6		07	2.2
25	30	25,474	-47.8		07	2.8
20	28	26,944	-46.9		07	2.9
15	27	28,859	-44.4		08	3.0
10	15	31,616	-40.8		09	4.6
7	7	34,068	-37.1			

SALEM, IL 997 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	29	174	20.9	19.2	17	.7
1000	11	181	21.0	17.8	11	.9
950	29	595	22.0	17.0	23	4.2
900	29	1,064	19.7	13.5	24	4.6
850	29	1,555	16.9	9.6	25	4.1
800	29	2,070	[illegible]	5.0	25	3.8
750	29	2,611	10.9	.6	25	3.5
700	29	3,184	7.5	-3.6	25	3.4
650	29	3,791	4.2	-8.9	26	3.7
600	29	4,438	.6	-13.1	27	3.5
550	29	5,131	-3.2	-17.3	27	4.1
500	29	5,879	[illegible]	-22.1	27	4.9
450	29	6,691	-13.1	-27.1	28	5.0
400	29	7,578	-19.3	-32.5	28	5.9
350	29	8,560	-26.5	-40.4	29	6.4
300	29	9,653	-34.7	-48.2	29	7.9
250	29	10,902	[illegible]		29	9.9
200	29	12,369	-53.7		30	10.5
175	29	13,218	-58.4		29	10.4
150	29	14,176	-63.4		29	8.4
125	29	15,286	-66.4		29	7.0
100	28	16,639	-65.6		32	3.3
80	28	18,010	-61.7		03	2.5
70	28	18,840	-60.2		06	3.9
60	28	19,807	-58.0		08	[illegible]
50	27	20,963	-55.7		08	7.6
40	27	22,394	-53.0		09	9.2
30	26	24,260	-49.9		09	11.3
25	25	25,457	-48.1		09	12.8
20	22	26,939	-45.0		09	15.2
15	18	28,880	-42.0		09	17.9
10						
7						

RAWINSONDE DATA

Avera[illegible] m[illegible]nthly va[illegible]

SALEM, OR
[illegible] MB

[illegible]	[illegible]	61	12.1	[illegible]	[illegible]	.8
[illegible]	[illegible]	150	13.7	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	12.4	[illegible]	[illegible]	.7
900	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	-8.3	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	12.0	27	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	16.9	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	-18.6	27	[illegible]
550	[illegible]	5,017	[illegible]	-22.6	26	[illegible]
500	[illegible]	5,750	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	-18.8	-32.0	27	[illegible]
[illegible]	[illegible]	7,411	-24.8	-38.7	26	[illegible]
[illegible]	[illegible]	8,371	-32.1	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	-40.7	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	10,656	-49.1		[illegible]	[illegible]
[illegible]	[illegible]	12,100	-54.2		[illegible]	[illegible]
[illegible]	[illegible]	12,955	-55.3		[illegible]	[illegible]
150	[illegible]	13,935	-56.8		[illegible]	[illegible]
125	[illegible]	15,086	-57.9		[illegible]	[illegible]
100	[illegible]	16,493	-57.7		[illegible]	[illegible]
[illegible]	31	17,904	-57.0		[illegible]	[illegible]
[illegible]	[illegible]	18,753	-55.9		[illegible]	[illegible]
[illegible]	[illegible]	19,736	-55.2		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	-53.9		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	-52.9		[illegible]	[illegible]
[illegible]	[illegible]	24,203	-50.6		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	-49.1		[illegible]	[illegible]
[illegible]	[illegible]	26,871	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	28,783	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	31,515	[illegible]		[illegible]	[illegible]
[illegible]						

[illegible]
[illegible] MB

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]						
[illegible]						
900						
[illegible]	[illegible]	1,508	20.7	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	2,030	18.6	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	2,579	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	3,156	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	3,766	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	4,411	[illegible]	[illegible]	[illegible]	[illegible]
550	[illegible]	5,100	[illegible]	-17.7	[illegible]	[illegible]
500	[illegible]	5,839	[illegible]	-22.5	[illegible]	11.5
[illegible]	[illegible]	6,640	[illegible]	-29.8	[illegible]	12.8
[illegible]	[illegible]	7,517	[illegible]	[illegible]	[illegible]	15.4
[illegible]	[illegible]	8,487	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	20.2
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	23.0
[illegible]	[illegible]	12,253	[illegible]		[illegible]	26.3
[illegible]	[illegible]	13,102	-58.0		[illegible]	[illegible]
150	[illegible]	14,065	-61.8		[illegible]	[illegible]
125	[illegible]	15,185	[illegible]		[illegible]	[illegible]
100	[illegible]	16,549	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	17,922	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	18,754	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	19,723	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	22,302	[illegible]		[illegible]	6.2
[illegible]	[illegible]	24,165	[illegible]		[illegible]	8.8
[illegible]	[illegible]	25,350	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	26,817	[illegible]		[illegible]	12.8
[illegible]	[illegible]	28,730	[illegible]		[illegible]	15.1
[illegible]	[illegible]	31,458	[illegible]		[illegible]	14.9
[illegible]	5	[illegible]	[illegible]			

[illegible]
[illegible] MB

[illegible]	[illegible]	124	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	132	[illegible]	[illegible]		
[illegible]	[illegible]	551	[illegible]	[illegible]	[illegible]	[illegible]
900	[illegible]	1,019	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	1,515	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	2,038	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	2,587	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	3,166	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	4,430	[illegible]	[illegible]	[illegible]	[illegible]
550	[illegible]	5,126	[illegible]	[illegible]	[illegible]	[illegible]
500	[illegible]	5,873	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	6,684	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	7,571	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	8,554	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	9,646	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	10,897	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	12,364	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	13,212	[illegible]		[illegible]	13.4
150	[illegible]	[illegible]	[illegible]		[illegible]	11.1
125	[illegible]	15,265	[illegible]		[illegible]	8.1
100	[illegible]	16,595	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	18,751	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	19,702	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	20,840	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	22,248	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	25,257	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	26,711	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	28,616	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	31,319	[illegible]		[illegible]	[illegible]

[illegible]
[illegible] MB

[illegible]	[illegible]	[illegible]	25.2	23.2	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	24.9	21.8	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	21.9	19.3	[illegible]	[illegible]
900	[illegible]	1,060	18.9	15.2	[illegible]	[illegible]
[illegible]	[illegible]	1,550	16.1	9.5	[illegible]	[illegible]
[illegible]	[illegible]	2,064	14.0	3.4	[illegible]	[illegible]
[illegible]	[illegible]	2,606	11.3	-1.6	[illegible]	[illegible]
[illegible]	[illegible]	3,179	7.8	-5.9	[illegible]	[illegible]
[illegible]	[illegible]	3,786	4.5	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	4,434	.9	[illegible]	[illegible]	[illegible]
550	[illegible]	5,128	[illegible]	[illegible]	[illegible]	[illegible]
500	[illegible]	5,877	[illegible]	-24.2	[illegible]	[illegible]
[illegible]	[illegible]	6,690	[illegible]	-28.2	[illegible]	[illegible]
[illegible]	[illegible]	7,579	[illegible]	-33.3	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	-39.1	[illegible]	[illegible]
[illegible]	[illegible]	9,655	[illegible]	-47.1	[illegible]	[illegible]
[illegible]	[illegible]	10,900	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	12,355	-56.2		[illegible]	[illegible]
[illegible]	[illegible]	13,192	-61.9		[illegible]	[illegible]
150	[illegible]	14,134	-67.3		[illegible]	[illegible]
125	[illegible]	15,226	-70.4		[illegible]	[illegible]
100	[illegible]	[illegible]	-73.6		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	-70.4		[illegible]	[illegible]
[illegible]	30	18,650	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	17.2
[illegible]	[illegible]	[illegible]	-58.8		[illegible]	17.3
[illegible]	[illegible]	23,906	-56.1		[illegible]	17.8
[illegible]	[illegible]	[illegible]	-53.9		[illegible]	18.4
[illegible]	[illegible]	26,512	-50.6		[illegible]	19.5
[illegible]	[illegible]	28,402	[illegible]		[illegible]	23.1
[illegible]	[illegible]	31,106	-43.3		[illegible]	27.7
[illegible]	6	33,510	-41.1			

[illegible]
[illegible] MB

[illegible]	[illegible]	221	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]						
[illegible]	[illegible]	579	[illegible]	[illegible]	[illegible]	[illegible]
900	[illegible]	1,037	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	1,517	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	2,553	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	3,116	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	3,717	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	4,355	[illegible]	[illegible]	[illegible]	[illegible]
550	[illegible]	5,039	[illegible]	[illegible]	[illegible]	[illegible]
500	[illegible]	5,776	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	7,449	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	10,724	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	12,177	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
100	[illegible]	16,557	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	18,816	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	20,974	-52.8		[illegible]	[illegible]
[illegible]	[illegible]	22,421	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	24,305	-48.9		[illegible]	[illegible]
[illegible]	[illegible]	25,500	-47.3		[illegible]	[illegible]
[illegible]	[illegible]	26,990	-45.1		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	-42.4		[illegible]	[illegible]
[illegible]	[illegible]	31,678	[illegible]		[illegible]	[illegible]

SPOKANE, WA
[illegible] MB

SFC	31	[illegible]	[illegible]	[illegible]	18	.5
[illegible]						
[illegible]						
[illegible]	[illegible]	1,006	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	1,489	[illegible]	[illegible]	[illegible]	[illegible]
800	[illegible]	1,995	[illegible]	-1.6	[illegible]	[illegible]
750	[illegible]	2,527	5.5	-4.2	24	[illegible]
700	[illegible]	3,087	.8	[illegible]	24	[illegible]
650	[illegible]	3,681	[illegible]	[illegible]	[illegible]	[illegible]
600	[illegible]	4,314	[illegible]	[illegible]	25	[illegible]
[illegible]	[illegible]	4,991	[illegible]	[illegible]	25	[illegible]
500	31	5,721	[illegible]	[illegible]	25	[illegible]
450	[illegible]	6,511	[illegible]	[illegible]	25	[illegible]
400	31	7,374	[illegible]	[illegible]	[illegible]	[illegible]
350	[illegible]	8,330	[illegible]	[illegible]	25	[illegible]
[illegible]	[illegible]	9,392	-41.5	[illegible]	[illegible]	[illegible]
250	[illegible]	10,605	-50.0		25	[illegible]
200	[illegible]	[illegible]	-53.8		[illegible]	[illegible]
[illegible]	[illegible]	12,904	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	31	[illegible]	55.8		[illegible]	[illegible]
100	[illegible]	16,477	[illegible]		26	[illegible]
80	29	17,896	[illegible]		26	[illegible]
70	[illegible]	18,750	-54.5		26	3.4
[illegible]	[illegible]	19,739	-53.9		25	.7
[illegible]	[illegible]	20,914	[illegible]		09	.8
[illegible]	[illegible]	22,358	[illegible]		09	[illegible]
[illegible]	[illegible]	24,238	[illegible]		08	4.8
[illegible]	[illegible]	[illegible]	-48.1		[illegible]	[illegible]
[illegible]	[illegible]	26,923	-46.1		09	[illegible]
15	[illegible]	[illegible]	-43.5		08	[illegible]
[illegible]	[illegible]	[illegible]	-35.5			
[illegible]						

[illegible]
1017 MB

SFC	[illegible]	8	[illegible]	22.1	[illegible]	[illegible]
[illegible]	[illegible]	155	[illegible]	21.8	[illegible]	[illegible]
[illegible]	[illegible]	605	23.1	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	1,075	20.1	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	1,567	17.0	[illegible]	[illegible]	[illegible]
800	[illegible]	2,082	[illegible]	[illegible]	[illegible]	[illegible]
750	[illegible]	2,625	[illegible]	[illegible]	[illegible]	[illegible]
700	[illegible]	3,198	[illegible]	[illegible]	[illegible]	[illegible]
650	[illegible]	3,805	[illegible]	[illegible]	[illegible]	[illegible]
600	[illegible]	4,452	[illegible]	-10.0	[illegible]	[illegible]
[illegible]	[illegible]	5,145	[illegible]	-14.4	[illegible]	[illegible]
500	[illegible]	5,893	[illegible]	-19.9	[illegible]	[illegible]
450	[illegible]	6,704	-12.9	-26.1	[illegible]	[illegible]
400	[illegible]	7,592	-18.8	-30.8	[illegible]	[illegible]
350	[illegible]	8,576	-25.8	-39.8	[illegible]	[illegible]
[illegible]	[illegible]	9,672	-34.4	-48.0	[illegible]	[illegible]
250	[illegible]	10,920	-44.3		[illegible]	[illegible]
200	[illegible]	12,378	-55.8		[illegible]	[illegible]
[illegible]	[illegible]	13,216	-61.6		[illegible]	[illegible]
[illegible]	[illegible]	14,160	-66.5		[illegible]	[illegible]
[illegible]	[illegible]	15,256	-69.5		[illegible]	[illegible]
100	[illegible]	16,585	-69.0		[illegible]	[illegible]
80	[illegible]	17,926	-67.3		[illegible]	[illegible]
70	[illegible]	18,736	-65.0		[illegible]	[illegible]
[illegible]	[illegible]	19,681	-62.6		[illegible]	[illegible]
[illegible]	[illegible]	20,813	-59.8		[illegible]	16.8
[illegible]	[illegible]	22,216	-57.0		[illegible]	19.0
[illegible]	[illegible]	24,052	-53.7		[illegible]	19.1
[illegible]	[illegible]	25,231	-51.6		[illegible]	[illegible]
[illegible]	[illegible]	26,690	-49.0		[illegible]	[illegible]
15	[illegible]	28,588	-46.6		[illegible]	[illegible]
[illegible]	[illegible]	31,290	-41.6			

[illegible]
[illegible] MB

SFC	[illegible]	[illegible]	20.6	17.2	[illegible]	.9
[illegible]						
[illegible]	[illegible]	577	22.4	15.5	20	[illegible]
[illegible]	[illegible]	1,048	21.6	12.9	23	[illegible]
[illegible]	[illegible]	1,542	19.0	9.4	24	[illegible]
800	[illegible]	2,061	16.2	4.6	25	[illegible]
750	[illegible]	2,607	12.7	1.2	[illegible]	[illegible]
700	[illegible]	3,182	8.	-3.0	25	[illegible]
650	[illegible]	3,791	4.7	-7.2	27	[illegible]
600	[illegible]	4,439	.3	-12.1	28	[illegible]
[illegible]	[illegible]	5,131	-4.2	-16.7	28	[illegible]
500	[illegible]	5,876	-8.3	-22.9	28	[illegible]
450	[illegible]	6,686	-13.4	-27.9	[illegible]	[illegible]
400	[illegible]	7,573	-19.3	-34.1	29	[illegible]
350	[illegible]	8,555	-26.4	-38.7	28	[illegible]
[illegible]	[illegible]	9,648	-34.7	-47.9	[illegible]	[illegible]
250	[illegible]	10,896	-44.2		29	[illegible]
200	[illegible]	12,360	-54.1		[illegible]	[illegible]
[illegible]	[illegible]	13,207	-59.0		[illegible]	[illegible]
[illegible]	[illegible]	14,164	-63.3		28	[illegible]
[illegible]	[illegible]	15,273	-67.0		27	[illegible]
100	[illegible]	16,622	-65.9		[illegible]	[illegible]
80	[illegible]	17,987	-62.7		05	.8
70	[illegible]	18,815	-60.2		[illegible]	[illegible]
[illegible]	[illegible]	19,783	-57.9		08	[illegible]
[illegible]	[illegible]	20,938	-55.8		09	[illegible]
[illegible]	[illegible]	22,364	-53.9		09	[illegible]
[illegible]	[illegible]	24,227	-50.4		09	[illegible]
[illegible]	[illegible]	25,423	-48.5		[illegible]	12.3
[illegible]	[illegible]	26,900	-46.1		[illegible]	14.4
15	[illegible]	[illegible]	-42.7		09	16.4
[illegible]	[illegible]	31,617	-37.3			

TRUK, CAROLINE IS.
1011 MB

SFC	[illegible]	[illegible]	28.4	24.2	[illegible]	[illegible]
[illegible]	[illegible]	96	27.0	23.1	[illegible]	[illegible]
[illegible]	[illegible]	549	23.5	20.5	[illegible]	[illegible]
[illegible]	[illegible]	1,021	20.4	17.2	[illegible]	[illegible]
[illegible]	[illegible]	1,513	17.6	13.7	[illegible]	[illegible]
800	[illegible]	2,031	15.1	10.6	[illegible]	[illegible]
750	[illegible]	2,577	12.4	[illegible]	[illegible]	[illegible]
700	[illegible]	3,153	9.5	[illegible]	[illegible]	[illegible]
650	[illegible]	3,766	6.2	[illegible]	[illegible]	[illegible]
600	[illegible]	4,418	2.4	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	5,117	-1.2	[illegible]	[illegible]	[illegible]
500	[illegible]	5,872	-5.3	[illegible]	[illegible]	[illegible]
450	[illegible]	6,693	-9.7	[illegible]	[illegible]	[illegible]
400	[illegible]	7,593	-15.3	[illegible]	[illegible]	[illegible]
350	[illegible]	8,591	-22.3	[illegible]	[illegible]	[illegible]
[illegible]	31	9,702	-30.9	[illegible]	[illegible]	[illegible]
250	[illegible]	10,968	-41.3		[illegible]	[illegible]
200	[illegible]	12,443	-53.8		[illegible]	[illegible]
[illegible]	[illegible]	13,287	-60.7		[illegible]	[illegible]
[illegible]	[illegible]	14,229	-68.3		[illegible]	[illegible]
[illegible]	[illegible]	15,304	-75.6		[illegible]	[illegible]
100	[illegible]	16,586	-75.4		[illegible]	[illegible]
80	[illegible]	17,894	-70.7		[illegible]	[illegible]
70	[illegible]	18,691	-67.6		[illegible]	[illegible]
[illegible]	[illegible]	19,627	-64.6		[illegible]	[illegible]
[illegible]	[illegible]	20,750	-61.3		[illegible]	[illegible]
[illegible]	[illegible]	22,143	-58.6		[illegible]	[illegible]
[illegible]	[illegible]	23,968	-55.2		[illegible]	[illegible]
[illegible]	[illegible]	25,136	-53.3		[illegible]	[illegible]
[illegible]	[illegible]	26,581	-50.8		[illegible]	[illegible]
15	[illegible]	28,467	-48.0		[illegible]	[illegible]
[illegible]	[illegible]	31,143	-45.1		[illegible]	[illegible]

[illegible]
[illegible] MB

SFC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]						
[illegible]						
[illegible]	[illegible]	1,019	26.6	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	1,521	24.1	[illegible]	[illegible]	[illegible]
800	[illegible]	2,049	20.5	[illegible]	[illegible]	[illegible]
750	[illegible]	2,602	16.3	[illegible]	[illegible]	[illegible]
700	[illegible]	3,183	11.5	-.2	[illegible]	[illegible]
650	[illegible]	3,798	6.0	-2.3	[illegible]	[illegible]
600	[illegible]	4,449	[illegible]	-6.2	[illegible]	[illegible]
[illegible]	[illegible]	5,144	-3.3	[illegible]	[illegible]	[illegible]
500	[illegible]	5,892	-7.0	[illegible]	[illegible]	[illegible]
450	[illegible]	6,706	-12.2	[illegible]	[illegible]	[illegible]
400	[illegible]	7,598	[illegible]	[illegible]	[illegible]	[illegible]
350	[illegible]	8,586	-24.8	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	9,685	-33.3	[illegible]	[illegible]	6.2
250	[illegible]	10,940	-43.1		[illegible]	[illegible]
200	[illegible]	12,407	-54.3		[illegible]	9.9
[illegible]	[illegible]	13,251	-60.3		[illegible]	[illegible]
[illegible]	[illegible]	14,198	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	15,290	-70.9		[illegible]	4.2
100	[illegible]	16,609	[illegible]		[illegible]	.9
80	[illegible]	17,947	-60.9		[illegible]	4.8
70	[illegible]	18,760	-63.0		[illegible]	6.9
[illegible]	[illegible]	19,712	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	20,851	[illegible]		[illegible]	12.6
[illegible]	[illegible]	22,257	-56.8		[illegible]	15.0
[illegible]	[illegible]	24,096	-53.4		[illegible]	[illegible]
[illegible]	[illegible]	25,272	-51.9		[illegible]	19.1
[illegible]	[illegible]	26,726	-49.3		[illegible]	[illegible]
15	[illegible]	[illegible]	-45.4		[illegible]	[illegible]
[illegible]	[illegible]	31,347	-41.8		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	-37.9			

[illegible]ANDENBERG AFB, CA
[illegible]004 MB

SFC	[illegible]	[illegible]	[illegible]	11.7	33	.8
1000	[illegible]	129	[illegible]	11.6	33	[illegible]
[illegible]	[illegible]	562	[illegible]	[illegible]	36	.5
[illegible]	31	1,027	[illegible]	.0	01	[illegible]
850	[illegible]	1,521	[illegible]	-1.7	01	.7
[illegible]	[illegible]	2,039	[illegible]	-4.3	24	[illegible]
750	[illegible]	2,586	13.6	-7.7	[illegible]	[illegible]
700	[illegible]	3,162	9.9	[illegible]	25	[illegible]
650	[illegible]	3,773	[illegible]	-14.6	25	[illegible]
600	[illegible]	4,424	[illegible]	-17.9	25	[illegible]
550	[illegible]	5,119	-2.9	-22.0	25	[illegible]
500	[illegible]	5,866	[illegible]	-26.2	[illegible]	[illegible]
450	[illegible]	6,676	-13.8	-31.1	25	[illegible]
400	[illegible]	7,559	[illegible]	-36.8	25	[illegible]
350	[illegible]	8,537	[illegible]	-42.6	25	[illegible]
300	[illegible]	9,624	-35.8	-49.2	24	[illegible]
250	[illegible]	10,868	-44.6		[illegible]	13.4
200	[illegible]	12,333	[illegible]		24	16.1
175	[illegible]	13,185	-57.7		24	16.1
150	[illegible]	14,146	-62.8		[illegible]	[illegible]
125	[illegible]	15,259	-66.6		[illegible]	[illegible]
[illegible]	[illegible]	16,605	[illegible]		24	[illegible]
[illegible]	[illegible]	17,961	-63.9		[illegible]	[illegible]
[illegible]	[illegible]	18,783	[illegible]		10	[illegible]
[illegible]	[illegible]	19,742	-59.9		[illegible]	[illegible]
[illegible]	[illegible]	20,887	[illegible]		09	[illegible]
[illegible]	[illegible]	22,301	[illegible]		09	[illegible]
[illegible]	[illegible]	24,143	[illegible]		09	[illegible]
[illegible]	[illegible]	25,323	-51.3		09	[illegible]
[illegible]	[illegible]	26,781	-48.8		[illegible]	[illegible]
[illegible]	[illegible]	28,684	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	31,400	-42.6		[illegible]	[illegible]
[illegible]	[illegible]	33,835	-37.9		09	[illegible]
5	[illegible]	36,160	-34.5			

[illegible]
1012 MB

SFC	[illegible]	33	[illegible]	[illegible]	[illegible]	[illegible]
1000	[illegible]	136	25.2	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	588	23.2	20.2	[illegible]	[illegible]
[illegible]	[illegible]	1,059	[illegible]	15.3	[illegible]	[illegible]
850	[illegible]	1,552	[illegible]	11.8	[illegible]	[illegible]
[illegible]	[illegible]	2,069	[illegible]	[illegible]	[illegible]	[illegible]
750	[illegible]	2,613	[illegible]	[illegible]	[illegible]	[illegible]
700	[illegible]	3,187	[illegible]	-.1	[illegible]	[illegible]
650	[illegible]	3,797	[illegible]	-5.3	[illegible]	[illegible]
600	[illegible]	4,446	[illegible]	-9.7	[illegible]	[illegible]
550	[illegible]	5,142	[illegible]	[illegible]	[illegible]	[illegible]
500	[illegible]	5,892	[illegible]	[illegible]	[illegible]	[illegible]
450	[illegible]	6,706	[illegible]	[illegible]	[illegible]	[illegible]
400	[illegible]	7,597	[illegible]	[illegible]	[illegible]	[illegible]
350	[illegible]	8,585	[illegible]	[illegible]	[illegible]	[illegible]
300	[illegible]	9,684	-33.3	-45.0	[illegible]	[illegible]
250	[illegible]	10,938	[illegible]		[illegible]	[illegible]
200	[illegible]	12,403	[illegible]		[illegible]	[illegible]
175	[illegible]	13,245	[illegible]		[illegible]	[illegible]
150	[illegible]	14,189	[illegible]		[illegible]	[illegible]
125	[illegible]	15,279	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	16,600	-70.1		[illegible]	[illegible]
[illegible]	[illegible]	17,937	-66.8		[illegible]	[illegible]
[illegible]	[illegible]	18,749	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	19,696	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	20,829	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	22,231	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	24,068	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	25,250	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	26,710	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]

WAKE IS., PACIFIC AREA
1014 MB

SFC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1000	[illegible]	132	[illegible]	[illegible]	[illegible]	.5
[illegible]	[illegible]	583	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	1,054	[illegible]	[illegible]	[illegible]	[illegible]
850	[illegible]	1,545	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	2,060	14.1	[illegible]	[illegible]	[illegible]
750	[illegible]	2,604	11.4	[illegible]	[illegible]	[illegible]
700	[illegible]	3,178	8.2	[illegible]	[illegible]	[illegible]
650	[illegible]	3,787	[illegible]	[illegible]	[illegible]	[illegible]
600	[illegible]	4,436	[illegible]	-9.5	[illegible]	[illegible]
550	[illegible]	5,131	[illegible]	-12.8	[illegible]	[illegible]
500	[illegible]	[illegible]	[illegible]	-18.4	[illegible]	[illegible]
450	[illegible]	6,693	[illegible]	-23.0	03	[illegible]
400	[illegible]	7,583	[illegible]	[illegible]	[illegible]	[illegible]
350	[illegible]	8,570	[illegible]	[illegible]	[illegible]	[illegible]
300	[illegible]	9,667	[illegible]	[illegible]	[illegible]	[illegible]
250	[illegible]	10,916	[illegible]		[illegible]	[illegible]
200	[illegible]	12,372	-56.5		[illegible]	[illegible]
175	[illegible]	13,207	-63.0		[illegible]	[illegible]
150	[illegible]	14,141	[illegible]		[illegible]	[illegible]
125	[illegible]	15,222	-72.1		[illegible]	[illegible]
[illegible]	[illegible]	16,537	-70.8		[illegible]	[illegible]
[illegible]	[illegible]	17,860	-70.1		[illegible]	9.3
[illegible]	[illegible]	18,659	-67.6		[illegible]	12.9
[illegible]	[illegible]	19,594	-65.3		[illegible]	15.6
[illegible]	[illegible]	20,712	-63.0		[illegible]	17.1
[illegible]	[illegible]	22,093	-60.4		[illegible]	18.2
[illegible]	[illegible]	23,905	-56.5		[illegible]	18.7
[illegible]	25	25,064	-54.3		[illegible]	20.8
[illegible]	25	26,503	-51.6		[illegible]	22.1
[illegible]	[illegible]	[illegible]	-49.1		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]			

[illegible]ALLOPS ISLAND, [illegible]
1018 MB

SFC	31	[illegible]	[illegible]	20.7	35	[illegible]
1000	[illegible]	155	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	31	604	[illegible]	15.0	[illegible]	[illegible]
[illegible]	[illegible]	1,072	[illegible]	[illegible]	[illegible]	[illegible]
850	[illegible]	1,561	[illegible]	[illegible]	[illegible]	5.6
[illegible]	[illegible]	2,076	[illegible]	[illegible]	[illegible]	[illegible]
750	[illegible]	2,617	[illegible]	[illegible]	[illegible]	6.8
700	31	3,189	[illegible]	[illegible]	[illegible]	7.7
650	31	3,796	[illegible]	[illegible]	[illegible]	8.0
600	31	4,443	[illegible]	-11.7	29	8.0
550	31	5,137	-3.2	-17.1	[illegible]	8.1
500	31	5,885	-7.6	[illegible]	[illegible]	8.7
450	31	6,698	-12.6	[illegible]	[illegible]	8.9
400	31	7,587	[illegible]	[illegible]	[illegible]	[illegible]
350	31	8,571	[illegible]	[illegible]	[illegible]	[illegible]
300	[illegible]	9,666	[illegible]	[illegible]	[illegible]	[illegible]
250	31	10,913	[illegible]		[illegible]	[illegible]
200	[illegible]	12,375	-55.8		[illegible]	10.9
175	[illegible]	13,215	[illegible]		[illegible]	10.0
150	[illegible]	14,161	-65.8		[illegible]	[illegible]
125	[illegible]	15,261	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	17,977	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	18,805	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	19,770	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	20,921	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	22,345	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	24,206	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	22	26,876	[illegible]		[illegible]	[illegible]
[illegible]	17	28,796	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]			

WASHINGTON DULLES INT.
1008 MB

SFC	[illegible]	[illegible]	[illegible]	17.5	[illegible]	[illegible]
1000	[illegible]	158	[illegible]	17.7	34	[illegible]
[illegible]	[illegible]	601	21.2	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	1,069	19.0	11.3	31	[illegible]
850	[illegible]	1,558	[illegible]	[illegible]	31	[illegible]
[illegible]	[illegible]	2,071	[illegible]	4.9	[illegible]	[illegible]
750	[illegible]	2,612	[illegible]	[illegible]	[illegible]	[illegible]
700	[illegible]	3,182	[illegible]	-3.4	28	[illegible]
650	[illegible]	[illegible]	[illegible]	-7.5	28	[illegible]
600	[illegible]	4,434	.0	[illegible]	28	[illegible]
550	[illegible]	5,126	-3.5	[illegible]	28	[illegible]
500	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
450	[illegible]	6,686	[illegible]	[illegible]	[illegible]	[illegible]
400	[illegible]	7,574	[illegible]	-32.7	27	[illegible]
350	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
300	[illegible]	[illegible]	[illegible]	-47.4	27	[illegible]
250	[illegible]	10,900	[illegible]		[illegible]	[illegible]
200	[illegible]	12,358	[illegible]		[illegible]	[illegible]
175	[illegible]	13,199	-60.7		[illegible]	[illegible]
150	[illegible]	14,148	-64.9		[illegible]	[illegible]
125	[illegible]	15,253	-57.0		[illegible]	[illegible]
[illegible]	[illegible]	16,605	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	17,976	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	18,806	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	20,929	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	22,358	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	24,222	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	12.1
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	14.0
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	34,008	[illegible]			

RAWINSONDE DATA

Average monthly values

AUGUST 1975

WAYCROSS, GA [illegible]3 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s.
SFC	31	44	22.1	21.5	24	.2
1000	31	158	[illegible]	20.9	23	.9
950	31	607	22.6	[illegible]	23	2.2
900	31	[illegible]	20.0	13.9	22	1.6
850	31	[illegible]	17.1	10.3	[illegible]	[illegible]
800	31	[illegible]	14.2	6.2	[illegible]	2.2
750	31	[illegible]	[illegible]	[illegible]	[illegible]	2.3
700	31	[illegible]	[illegible]	[illegible]	20	1.7
650	31	[illegible]	4.3	-5.3	20	1.8
600	31	4,455	[illegible]	-11.9	21	.5
550	31	5,150	[illegible]	-15.9	19	.5
500	31	[illegible]	-7.4	-20.7	18	[illegible]
450	31	[illegible]	[illegible]	-26.9	[illegible]	[illegible]
400	31	[illegible]	-18.2	-32.7	[illegible]	[illegible]
350	31	[illegible]	-25.5	-39.2	[illegible]	[illegible]
300	30	[illegible]	-34.3	-47.9	[illegible]	[illegible]
250	[illegible]	[illegible]	-44.6		10	[illegible]
200	[illegible]	[illegible]	-55.8		10	[illegible]
175	[illegible]	[illegible]	[illegible]		07	[illegible]
150	[illegible]	14,175	[illegible]		[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]		[illegible]	5.1
80	[illegible]	17,953	[illegible]		07	7.2
70	[illegible]	18,770	[illegible]		08	8.8
60	[illegible]	19,724	-60.7		[illegible]	[illegible]
50	[illegible]	[illegible]	-57.9		[illegible]	4.0
40	[illegible]	22,281	-55.5		[illegible]	[illegible]
30	[illegible]	24,130	-52.4		[illegible]	[illegible]
25	7	25,312	-50.6		[illegible]	[illegible]
20	[illegible]	[illegible]	-47.6		[illegible]	[illegible]
15	[illegible]	[illegible]	-43.5		[illegible]	[illegible]
10	[illegible]	[illegible]	-39.8			

WINNEMUCCA, NV 86[illegible] MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s.
SFC	31	1,313	[illegible]	-.8	[illegible]	[illegible]
850	31	1,502	[illegible]	[illegible]	[illegible]	.4
800	31	[illegible]	[illegible]	[illegible]	[illegible]	2.3
750	31	2,563	[illegible]	[illegible]	[illegible]	4.2
700	31	3,135	[illegible]	[illegible]	[illegible]	6.5
650	31	3,740	3.3	[illegible]	[illegible]	8.3
600	31	4,384	[illegible]	[illegible]	[illegible]	10.0
550	31	5,073	[illegible]	[illegible]	[illegible]	10.3
500	31	[illegible]	[illegible]	[illegible]	[illegible]	11.3
450	31	[illegible]	-16.6	[illegible]	[illegible]	13.1
400	[illegible]	7,491	[illegible]	[illegible]	[illegible]	14.8
350	29	8,458	[illegible]	[illegible]	[illegible]	16.5
300	29	9,533	[illegible]	[illegible]	[illegible]	19.3
250	29	10,765	-46.9		[illegible]	22.4
200	29	12,218	[illegible]		[illegible]	[illegible]
175	29	13,067	[illegible]		[illegible]	21.9
150	28	14,034	-60.9		[illegible]	[illegible]
125	28	15,160	[illegible]		[illegible]	15.5
100	28	16,532	-62.9		[illegible]	7.7
80	[illegible]	17,914	-60.4		[illegible]	2.5
70	[illegible]	18,748	[illegible]		[illegible]	1.1
60	[illegible]	19,718	-57.7		[illegible]	2.2
50	[illegible]	[illegible]	[illegible]		[illegible]	4.4
40	26	[illegible]	[illegible]		[illegible]	6.5
30	25	[illegible]	[illegible]		[illegible]	8.8
25	25	25,338	[illegible]		[illegible]	10.1
20	24	[illegible]	[illegible]		[illegible]	11.1
15	21	[illegible]	-45.3		[illegible]	13.5
10	12	[illegible]	-41.7			

WINSLOW, AZ 854 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s.
SFC	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
850	31	[illegible]	[illegible]	[illegible]	[illegible]	1.6
800	31	2,051	[illegible]	[illegible]	[illegible]	[illegible]
750	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
700	31	3,186	[illegible]	-3.5	[illegible]	[illegible]
650	31	3,802	[illegible]	[illegible]	[illegible]	[illegible]
600	31	4,453	[illegible]	[illegible]	[illegible]	[illegible]
550	31	5,146	[illegible]	-13.0	[illegible]	[illegible]
500	31	[illegible]	[illegible]	-20.0	[illegible]	[illegible]
450	31	6,704	[illegible]	-26.1	[illegible]	[illegible]
400	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
350	31	8,574	[illegible]	[illegible]	[illegible]	8.8
300	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
250	31	10,917	[illegible]		[illegible]	13.7
200	31	12,381	[illegible]		[illegible]	15.0
175	31	[illegible]	[illegible]		[illegible]	[illegible]
150	[illegible]	14,177	-65.1		[illegible]	[illegible]
125	[illegible]	15,276	-69.1		[illegible]	[illegible]
100	[illegible]	16,606	[illegible]		[illegible]	[illegible]
80	[illegible]	17,950	[illegible]		[illegible]	1.6
70	[illegible]	18,768	[illegible]		[illegible]	3.7
60	[illegible]	19,723	[illegible]		[illegible]	6.0
50	[illegible]	20,863	[illegible]		[illegible]	[illegible]
40	[illegible]	22,277	[illegible]		[illegible]	11.8
30	[illegible]	24,128	-53.2		[illegible]	14.5
25	[illegible]	25,305	[illegible]		[illegible]	15.9
20	[illegible]	26,764	-48.7		09	18.1
15	[illegible]	28,666	[illegible]		[illegible]	20.3
10	[illegible]	31,401	[illegible]		[illegible]	[illegible]

YAKUTAT, AK [illegible]3 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s.
SFC	[illegible]	[illegible]	8.8	7.3	08	[illegible]
1000	29	[illegible]	[illegible]	7.7	10	1.4
950	29	550	9.7	5.0	13	2.2
900	29	998	7.4	[illegible]	13	2.1
850	[illegible]	1,466	4.8	-1.1	13	2.0
800	[illegible]	1,959	2.1	-4.2	12	[illegible]
750	[illegible]	2,477	-.9	-6.9	12	[illegible]
700	[illegible]	3,025	-4.4	-8.9	13	2.3
650	[illegible]	3,606	-7.6	[illegible]	15	[illegible]
600	[illegible]	4,225	-11.1	-19.0	16	[illegible]
550	[illegible]	4,888	-15.4	-24.6	17	[illegible]
500	[illegible]	5,600	-20.3	-29.9	16	1.9
450	[illegible]	6,373	-25.8	[illegible]	18	1.3
400	[illegible]	7,216	-31.8	-42.8	[illegible]	1.7
350	[illegible]	8,149	-38.5	[illegible]	24	.5
300	[illegible]	9,188	-46.3		31	.8
250	[illegible]	10,384	-51.5		[illegible]	3.4
200	29	11,839	-49.1		30	4.3
175	[illegible]	12,716	-49.1		30	4.7
150	[illegible]	[illegible]	-49.6		30	3.9
125	[illegible]	14,920	-50.0		29	3.7
100	[illegible]	16,379	-50.0		29	2.8
80	[illegible]	17,838	-49.6		31	2.2
70	[illegible]	18,714	-49.2		30	1.4
60	[illegible]	19,725	-49.2		30	1.2
50	[illegible]	20,922	-49.1		34	1.3
40	[illegible]	22,388	-48.6		03	1.1
30	[illegible]	24,284	-47.5		07	1.5
25	[illegible]	[illegible]	-46.6		06	1.9
20	25	26,978	-45.5		06	2.8
15	[illegible]	[illegible]	-43.1		07	1.4
10	[illegible]	31,655	-39.2		07	3.3
[illegible]	[illegible]	[illegible]	-35.5			

YAP, CAROLINE IS. 1008 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s.
SFC	31	14	27.5	24.2	[illegible]	.7
1000	31	82	26.6	23.4	[illegible]	.8
950	31	535	[illegible]	[illegible]	[illegible]	[illegible]
900	31	1,007	20.0	[illegible]	[illegible]	[illegible]
850	31	1,500	[illegible]	14.2	[illegible]	[illegible]
800	31	2,018	15.4	10.8	[illegible]	[illegible]
750	31	2,564	[illegible]	7.6	[illegible]	[illegible]
700	31	3,141	9.5	3.6	14	[illegible]
650	31	3,754	6.1	.3	13	[illegible]
600	31	4,406	2.4	-2.4	[illegible]	[illegible]
550	31	5,106	-1.3	-6.0	[illegible]	4.1
500	31	5,861	-5.6	[illegible]	[illegible]	4.4
450	31	6,681	-10.1	[illegible]	[illegible]	4.5
400	31	7,580	-15.6	[illegible]	[illegible]	[illegible]
350	31	8,578	[illegible]	[illegible]	[illegible]	[illegible]
300	31	9,690	-30.6	[illegible]	[illegible]	[illegible]
250	31	10,957	-41.0	-48.4	[illegible]	8.8
200	31	12,434	-53.7		04	11.8
175	31	13,278	-60.7		[illegible]	14.1
150	31	14,220	[illegible]		[illegible]	15.0
125	31	15,292	-75.9		[illegible]	14.3
100	31	16,572	-75.9		[illegible]	11.1
80	31	17,879	-70.5		08	13.0
70	31	18,678	-68.1		08	12.7
60	31	19,610	-65.1		08	10.7
50	30	20,732	-61.5		09	9.3
40	30	22,125	-58.6		[illegible]	[illegible]
30	27	23,948	[illegible]		09	[illegible]
25	24	[illegible]	-52.6		[illegible]	7.6
20	20	26,560	-49.9		[illegible]	7.6
15	16	[illegible]	-47.7		09	9.8
10	7	31,188	-43.5			

YUCCA FLAT, NV 881 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s.
SFC	31	[illegible]	13.8	-8.2	17	[illegible]
1000						
950						
900						
850	31	1,505	22.9	-.1	22	[illegible]
800	31	[illegible]	19.6	-2.5	20	6.6
750	31	2,581	15.5	-5.4	20	7.0
700	31	3,160	10.8	-8.2	20	6.9
650	31	3,772	6.0	-10.9	19	6.3
600	31	4,421	[illegible]	-14.6	20	[illegible]
550	31	[illegible]	-3.8	-18.5	21	7.1
500	31	5,960	-8.8	-24.8	23	[illegible]
450	31	6,668	-14.1	-30.6	24	10.0
400	31	7,551	-20.6	-37.0	24	11.0
350	30	[illegible]	-27.8	-42.2	24	13.3
300	30	9,617	-36.0	-48.7	24	15.5
250	30	10,859	-45.2		24	17.7
200	30	12,320	-53.5		24	20.7
175	30	[illegible]	-58.0		25	18.8
150	30	14,131	-62.7		24	17.4
125	30	[illegible]	-66.3		25	12.3
100	30	16,593	-66.2		25	[illegible]
80	[illegible]	17,955	-63.3		19	1.2
70	29	18,780	-61.1		11	[illegible]
60	29	19,743	-59.0		09	4.4
50	29	20,892	-56.9		09	7.1
40	[illegible]	22,309	-55.7		10	[illegible]
30	[illegible]	24,155	-52.6		09	[illegible]
25	[illegible]	25,339	-50.6		09	[illegible]
20	[illegible]	26,805	-48.6		09	[illegible]
15	[illegible]	28,708	-46.0		09	[illegible]
10	[illegible]	31,413	-43.3			

SOLAR RADIATION INTENSITIES

Tabulated in langleys per minute on a surface normal to the direction of the sun.

[illegible]	[illegible]					[illegible]			
	78.7°	75.7°	70.7°	60.0°	*	60.0°	70.7°	75.7°	78.7°

[illegible]

[illegible]

	4.19	3.35	[illegible]	[illegible]	*	[illegible]	[illegible]	[illegible]	[illegible]
1---	.78	.88	[illegible]	1.15	[illegible]	1.11	.97	[illegible]	[illegible]
[illegible]	.71	.80	[illegible]	---	----	1.20	1.00	[illegible]	[illegible]
[illegible]	.74	.84	[illegible]	1.13	----	1.14	.97	[illegible]	[illegible]
[illegible]	.70	.81	[illegible]	1.09	1.28	1.03	[illegible]	[illegible]	---
6---	.67	.75	[illegible]	1.05	1.25	----	----	[illegible]	---
[illegible]	-		[illegible]	1.00	1.23	---	----	----	---
[illegible]	----	----	----	--	1.23	--	----	----	---
[illegible]	----	.74	[illegible]	1.02	[illegible]	----	----	----	---
[illegible]	.63	.73	[illegible]	1.02	1.24	----	----	[illegible]	----
[illegible]	[illegible]	[illegible]	[illegible]	1.09	1.26	----	---	[illegible]	[illegible]
[illegible]	[illegible]	(.74)	[illegible]	----	----	----	----	----	----
[illegible]	.69	.79	[illegible]	1.11	1.33	1.14	[illegible]	[illegible]	----
[illegible]	.68	----	[illegible]	[illegible]	1.28	1.03	----	----	----
[illegible]	.66	.78	[illegible]	1.07	1.25	----	----	----	---
[illegible]	[illegible]	[illegible]	[illegible]	1.05	1.32	1.06	[illegible]	----	-
19---	[illegible]	[illegible]	[illegible]	---	1.30	1.03	[illegible]	----	----
22---	[illegible]	[illegible]	[illegible]	----	1.26	----	----	----	[illegible]
23---	[illegible]	[illegible]	[illegible]	[illegible]	1.24	1.02	.82	[illegible]	[illegible]
[illegible]	[illegible]	.89	(.99)	1.13	1.34	1.19	1.04	[illegible]	[illegible]
[illegible]	.88	.99	1.11	1.21	1.39	1.21	1.04	[illegible]	.85
[illegible]	.84	.96	1.07	1.20	1.37	1.15	1.00	.88	(.74)
[illegible]	.70	.79	.86	[illegible]	1.26	(1.01)	(.89)	----	--
[illegible]	.67	.75	.89	1.09	1.33	1.14	1.00	[illegible]	[illegible]
29---	[illegible]	.96	1.01	1.20	1.39	1.21	1.05	[illegible]	[illegible]
30---	[illegible]	1.00	1.10	1.25	1.42	1.27	1.11	[illegible]	[illegible]
[illegible]	[illegible]	.87	1.01	1.14	1.36	1.13	.96	[illegible]	[illegible]
Averages	[illegible]	[illegible]	[illegible]	1.16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

MADISON, WISCONSIN

[illegible]

	[illegible]	[illegible]	[illegible]	[illegible]	*	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible] I	[illegible] I	.81 I	[illegible] I	1.19	[illegible] S	.86 S	.71 S	[illegible]
4---	[illegible]	[illegible]	[illegible] S	[illegible] S	1.22	----	----	----	----
[illegible]	[illegible]	[illegible]	.93	[illegible] S	1.31 M	1.12 M	[illegible] M	.82 M	.65
[illegible]	[illegible]	[illegible]	.83	[illegible] S	1.29 M	[illegible] M	[illegible] M	.81 M	.67
8---	[illegible]	[illegible]	.93	[illegible]	[illegible]	.90	[illegible]	[illegible]	.42
11---	[illegible]	----	----	----	----	----	---	----	----
Averages	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

MAUNA LOA OBSERVATORY, HAWAII

[illegible]

	[illegible]	2.69	[illegible]	1.34	*	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1.19	1.27	1.36	1.47	----	----	----	----	----
[illegible]	1.13	1.22	1.31	1.43	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1.17	1.25	----	1.45	1.59	----	--	----	----
[illegible]	1.13	1.22	1.31	1.41	----	--	---	----	---
[illegible]	1.16	1.24	1.31	1.43	---	-	----	----	---
[illegible]	1.19	1.26	1.34	1.45	1.58	[illegible]	1.30	1.22	1.15
[illegible]	----	----	-	---	1.60	[illegible]	1.36	1.32	1.20
[illegible]	1.21	[illegible]	[illegible]	1.47	---	----	---	----	--
[illegible]	1.22	----	----	1.46	----	----	----	----	----
[illegible]	1.17	1.26	1.35	1.46	----	[illegible]	1.29	1.18	1.10
[illegible]	----	---	----	1.46	1.61	[illegible]	1.31	1.21	1.14
[illegible]	1.20	1.28	1.38	1.48	1.61	[illegible]	1.35	1.25	1.15
[illegible]	1.23	1.30	1.39	1.50	[illegible]	[illegible]	1.37	1.28	1.19
[illegible]	1.21	1.30	1.38	1.43	1.62	[illegible]	1.36	1.26	1.18
[illegible]	1.20	1.30	1.38	1.49	1.61	[illegible]	1.29	1.23	1.14
[illegible]	[illegible]	1.24	1.33	[illegible]	1.60	---	----	- -	---
[illegible]	1.17	1.26	[illegible]	1.48	1.61	1.41	1.30	1.19	1.12
[illegible]	1.19	1.27	1.37	1.49	1.63	1.46	1.37	1.28	1.22
[illegible]	[illegible]	1.31	1.40	1.51	1.63	[illegible]	1.38	1.28	1.21
[illegible]	1.20	1.29	1.39	1.50	----	---	----	---	-
[illegible]	1.17	1.27	1.36	1.48	----	---	----	----	----
Averages	1.18	[illegible]	1.36	[illegible]	1.61	1.44	[illegible]	1.24	[illegible]

BLUE HILL OBSERVATORY, MASS.

[illegible]

[illegible]

[illegible]

[illegible]

	[illegible]	[illegible]	[illegible]	[illegible]	*	[illegible]	[illegible]	[illegible]	4.78
[illegible]	----	----	-	[illegible]	1.29	[illegible]	[illegible]	[illegible]	.62
1---	----	----	----	[illegible]	1.22	----	----	----	----
[illegible]	----	----	----	----	1.29	[illegible]	[illegible]	[illegible]	.62
[illegible]	----	----	----	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.31
[illegible]	----	[illegible]	[illegible]	[illegible]	.95	[illegible]	----	----	----
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.99	[illegible]	----	----	----
[illegible]	----	----	----	----	1.01	----	----	----	----
[illegible]	----	----	----	----	.91	----	----	-	----
[illegible]	----	----	----	----	----	[illegible]	----	----	[illegible]
[illegible]	----	----	----	[illegible]	----	1.10	[illegible]	----	----
[illegible]	----	----	----	----	1.24	----	----	----	----
[illegible]	----	----	----	----	1.16	1.10	[illegible]	[illegible]	[illegible]
20---	----	----	----	----	1.18	[illegible]	.84	[illegible]	----
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.21	----	.90	[illegible]	.21
[illegible]	----	----	----	----	----	[illegible]	.77	[illegible]	.62
[illegible]	----	----	----	----	----	----	[illegible]	----	----
[illegible]	----	----	[illegible]	[illegible]	[illegible]	----	----	----	----
[illegible]	----	----	----	----	----	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	.80	[illegible]	----	----	----	----	[illegible]	[illegible]
[illegible]	----	----	----	----	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Averages	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

TUCSON, ARIZONA

[illegible]

	[illegible]	[illegible]	[illegible]	[illegible]	*	[illegible]	[illegible]	3.71	[illegible]
1----	[illegible]	.79	[illegible]	[illegible]	1.31	1.09	.96	.83	.74
2----	[illegible]	.82	[illegible]	[illegible]	[illegible]	[illegible]	.92	[illegible]	.70
3----	----	.75	[illegible]	[illegible]	1.31	[illegible]	.85	[illegible]	[illegible]
4----	.61	.69	.83	---	1.23	.92	.71	[illegible]	[illegible]
[illegible]	.56	[illegible]	.79	[illegible]	1.19	--	--	----	----
6----	[illegible]	[illegible]	[illegible]	[illegible]	1.30	1.04	.89	.73	.63
7----	[illegible]	[illegible]	[illegible]	[illegible]	1.34	.97	.77	.64	.55
8----	[illegible]	[illegible]	[illegible]	[illegible]	1.04	----	----	----	----
9----	[illegible]	[illegible]	[illegible]	[illegible]	1.10	----	[illegible]	[illegible]	[illegible]
10----	----	----	----	[illegible]	1.10	----	----	----	-
11----	----	----	----	[illegible]	1.15	----	----	----	----
12----	----	----	-	----	----	---	.85	[illegible]	[illegible]
[illegible]	[illegible]	.76	[illegible]	1.09	1.34	[illegible]	.90	[illegible]	[illegible]
[illegible]	----	----	.88	1.04	1.31	----	---	-	[illegible]
15----	[illegible]	----	----	.86	1.17	----	.81	[illegible]	----
[illegible]	[illegible]	.48	.66	.89	1.22	1.05	.89	[illegible]	.70
17----	[illegible]	[illegible]	.88	1.06	1.31	1.25	1.11	[illegible]	.92
[illegible]	--	----	----	1.21	----	---	----	----	----
21----	[illegible]	[illegible]	[illegible]	1.09	1.31	----	----	---	----
22----	-	----	[illegible]	1.04	1.29	[illegible]	[illegible]	[illegible]	[illegible]
23----	.69	[illegible]	[illegible]	1.11	1.31	--	---	--	---
24----	----	----	----	----	1.34	1.15	.98	[illegible]	[illegible]
[illegible]	.76	[illegible]	1.00	[illegible]	1.39	1.19	1.02	[illegible]	[illegible]
26----	[illegible]	[illegible]	[illegible]	[illegible]	1.29	----	---	[illegible]	[illegible]
27----	----	----	----	[illegible]	-	1.05	.90	.75	[illegible]
28----	---	[illegible]	[illegible]	[illegible]	1.30	1.08	.89	.74	[illegible]
29----	[illegible]	[illegible]	[illegible]	1.05	1.31	[illegible]	.90	.77	[illegible]
30----	[illegible]	[illegible]	[illegible]	1.00	[illegible]	1.05	.84	[illegible]	[illegible]
31----	---	----	---	.94	[illegible]	1.04	.80	-	----
Averages	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SOLAR RADIATION TOTALS

Daily totals and monthly averages of solar radiation (direct and diffuse) received on a horizontal surface, tabulated in langleys.

AUGUST 1975

Station	Day of month																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Avg
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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NET RADIATION

Net radiation in langleys per day [illegible]

Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Avg.
Langleys	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SOLAR ULTRA-VIOLET RADIATION DATA

[illegible]

Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Avg.
Langleys	NO DATA RECEIVED																															

TOTAL OZONE DATA

[illegible] data are obtained from measurements [illegible] August 1962 WMO circular entitled "PUBLICATION OF DATA FOR METEOROLOGICAL [illegible] OZONE DATA."

[illegible]

Station	Day of month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	[illegible]
	NO DATA RECEIVED																															

REFERENCE NOTES

OBSERVED EXTREMES OF TEMPERATURE AND PRECIPITATION -- BY STATES: Dates in the table apply to the period 24 hours prior to time of observation. In some cases the actual occurrence is on the calendar date preceding that shown. (See individual Climatological Data for times of observations).

+ And also on an earlier date or dates.
D Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch of water equivalent to every 10 inches of snowfall.

CLIMATOLOGICAL DATA - METRIC UNITS: Data from airport unless otherwise specified.

Precipitation data in column headed "Greatest in 24 hours" are computed on a 24-hour basis without regard to calendar day - data may include precipitation with a measurable amount from the last day of the previous month or the first day of the following month.

Wind directions under resultant direction are in tens of degrees.

Value entered in column "Fastest Mile" is the highest observed 1-minute wind speed when the direction is in tens of degrees. These stations are not equipped with a recording anemometer from which "Fastest Mile data can be evaluated.

B Number of days maximum 21.1°C. or above for Alaskan Stations.
Y Peak Gust.
+ And also on an earlier date or dates.
U Indicates Urban site.
R Indicates Rural site.
Ø Station pressures apply to elevations shown in the "Elevations" table of the annual issue of this publication.

Conversion formulae to English Units are as follows:

1 foot = 0.3048 meters
°F = $\frac{9}{5} \times °C + 32$
1 inch = 25.4 millimeters
1 mile per hour = 0.447 meters per second

HEATING DEGREE DAYS: Data from airport unless otherwise specified.

U Indicates Urban site.
R Indicates Rural site.

COOLING DEGREE DAYS: Data from airport unless otherwise specified.

U Indicates Urban site.
R Indicates Rural site.

STORM SUMMARY:

° Includes crop damage.
C Crop damage.
* No occurrence of storms or unusual weather phenomena reported.
! Includes heavy sleet storm
Freezing drizzle and freezing rain, commonly known as glaze.
Ø For breakdown of "All Others," and for detailed listing of other storms, see the Environmental Data Service, NOAA, monthly publication STORM DATA.
‡ No Storm Data Report received for this State.
<> Report Incomplete.
† Storm damages are placed in categories varying from 1 to 9 as follows:

1	Less than $50
2	$50 to $500
3	$500 to $5,000
4	$5,000 to $50,000
5	$50,000 to $500,000
6	$500,000 to $5 Million
7	$5 Million to $50 Million
8	$50 Million to $500 Million
9	$500 Million to $5 Billion.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS:

1/ Flooding continued at the end of the month.
NA Not available.

FLOOD STAGE DATA:

# Highest Stage Observed
1/ Continued at end of month
___ Highest Stage of Record
E Estimated
P Provisional (Flood Stage)
U Unknown

RAWINSONDE DATA (Average Monthly Values):

All observations scheduled at 1200, G.C.T. Pressures shown under station names are the average monthly station pressures for the month of record, corrected to the height of the floors of the instrument shelters used for rawinsonde purposes. "Number of observations" refers to those of dynamic height only. Although the number of temperature observations at any given pressure surface is usually the same as for height, it is possible for temperature to be missing for one or more pressure surfaces of some observations. Dew Point averages are limited to those observations with temperatures warmer than -40°C. Observations of wind speed and direction are sometimes lost due to limiting angles, i.e., elevation angles less than 6° above the horizon, or any obstruction above the horizon. The temperature and wind values are based on 15 or more observations at the surface or 5 observations at a standard pressure level for temperature and 10 for wind. Dew Point data are not published for standard pressure surfaces for which less than 5 observations are available. Dew Point data are computed and expressed on the basis of vapor pressure over water. Unless otherwise indicated, they are obtained from carbon hygristors. These average values for standard pressure surfaces were obtained by rawinsondes; dynamic height (geopotential) in units of .98 dynamic meter, temperature and dew point in degrees Celsius, and resultant winds in tens of degrees and meters per second.

* Rawinsondes at this station were equipped with hypsometers to permit more accurate evaluations of pressure, and consequently height, at pressures lower than 50 mb. These rawinsondes were carried aloft by special high altitude balloons, in an effort to consistently reach higher altitudes.
+ Observations for these stations are scheduled at 0000 G.C.T.
† Dew Point temperatures are based on a minimum of 5 observations. Therefore, due to the lesser number of Dew Point observations at the higher levels comparison with dry-bulb temperatures should be made with care. Dew Point temperatures replaced Relative Humidity January 1967.

REFERENCE NOTES

SOLAR RADIATION INTENSITIES: Langley is the unit used to denote one gram calorie per square centimeter. An explanation of the formula used in computing the air mass values for each station appears in the February 1957 issue, Vol. 8, No. 2, page 63, of this publication.

( )	Clouds Present	DM	Moderate Dust	HM	Moderate Haze	KS	Slight Smoke
*	Values corresponding to true solar noon	DS	Slight Dust	HS	Slight Haze	M	Moderate Haze-indeterminable
BD	Blowing Dust	F	Fog	I	Intense Haze-indeterminable		
BN	Blowing Sand	GF	Ground Fog	K	Smoke	N	Sand
D	Dust	H	Haze	KI	Intense Smoke	S	Slight Haze-indeterminable
DI	Intense Dust	HI	Intense Haze	KM	Moderate Smoke		

SOLAR RADIATION TOTALS: Langley is the unit used to denote one gram calorie per square centimeter.

* Values with an asterisk are interpolated.
Data are only for those stations equipped with Eppley Model II sensors.

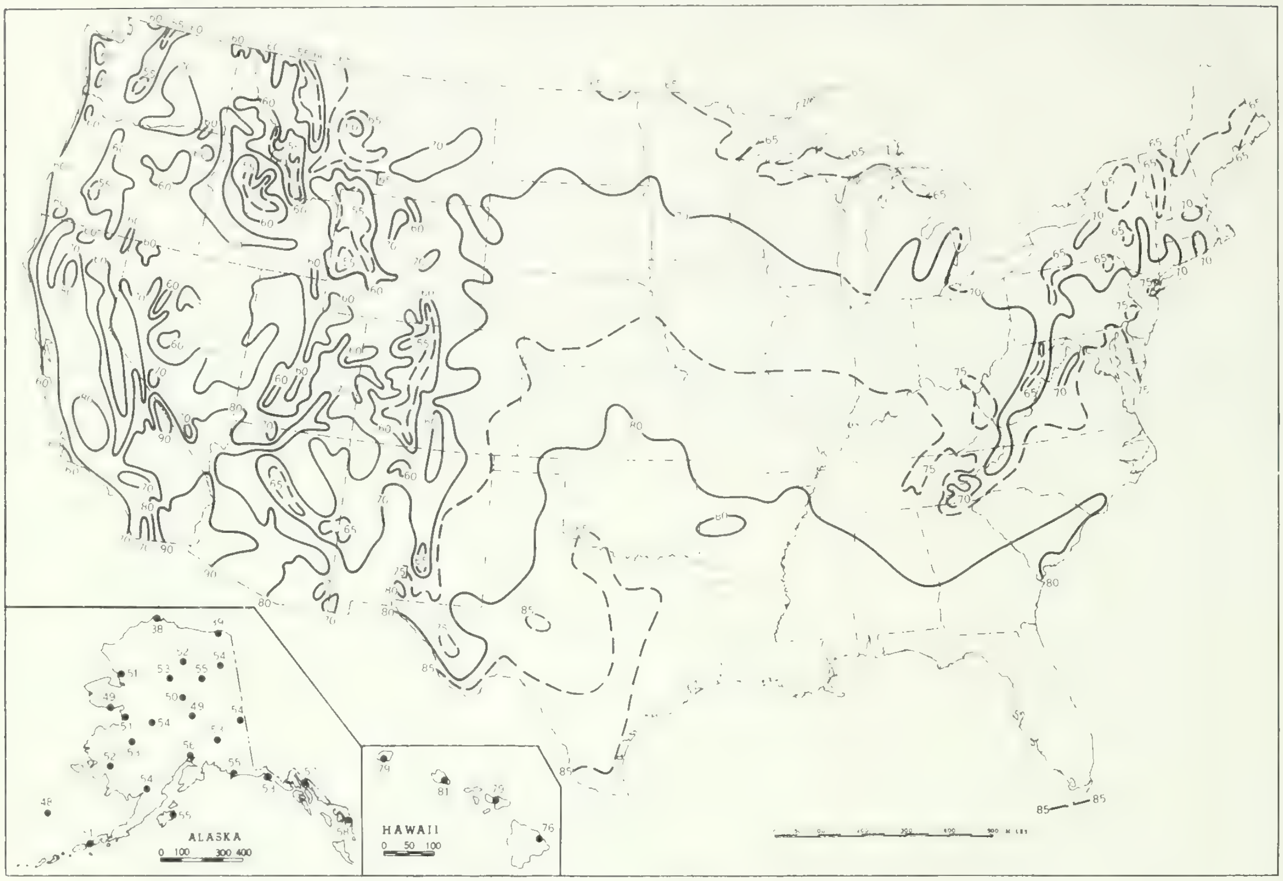
NET RADIATION: The measurement is made with a CSIRO FUNK net exchange radiometer over a plot of sod. The value represents the total incoming minus the total outgoing radiation of all wave lengths.

These data are of an experimental nature and are published as received from the Palmer Exp. Station. The instrument with which they were measured has not been checked by the NOAA, National Weather Service.

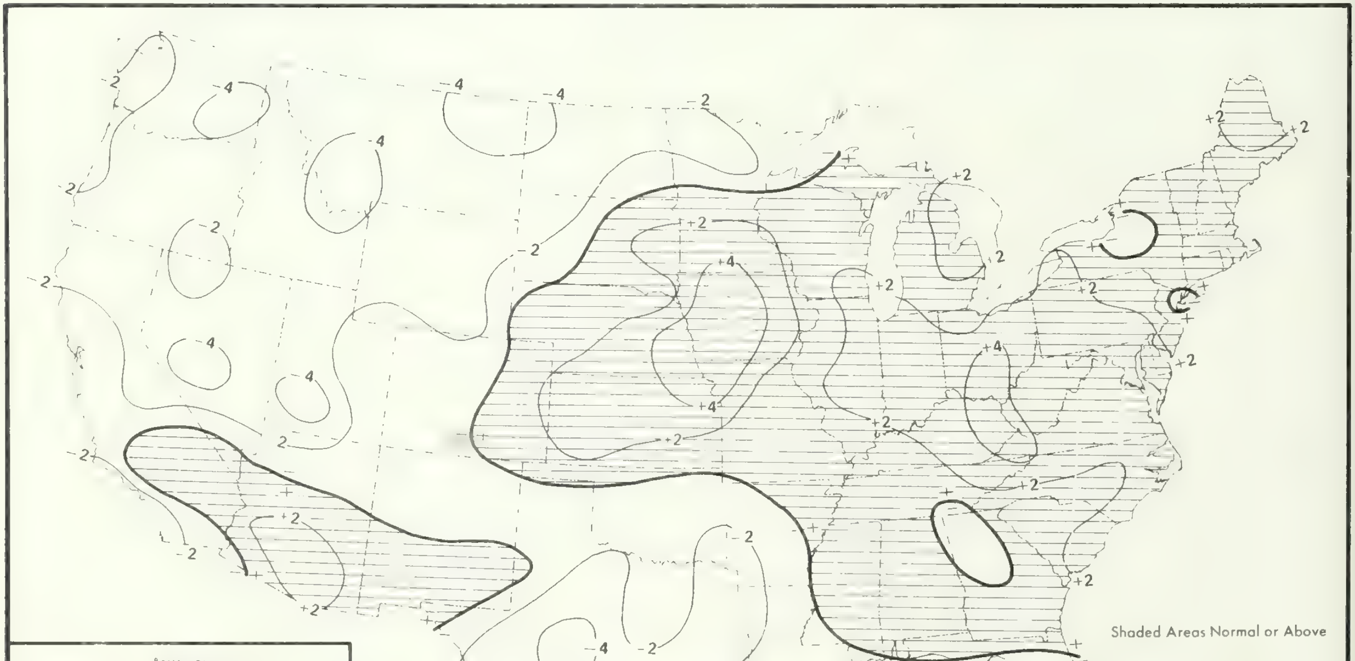
SOLAR ULTRA-VIOLET RADIATION DATA: These data are from an U-V Eppley total ultra violet sensor and Speedomax H (Leeds Northrup) Recorder. This instrument has not been checked by the NOAA, National Weather Service.

TOTAL OZONE DATA: The spectrophotometer measures the total amount of ozone in the atmosphere, i.e., the amount contained in a vertical column of air extending from ground level to the top of the atmosphere in the vicinity of the station. The amount of ozone in this column (coded $\Omega\ \Omega\ \Omega$) is expressed in terms of a thickness of a layer it would occupy at standard temperature and pressure, e.g., 350 milli-atmo-cm ozone implies an ozone layer 0.350 centimeter thick. The code λs designates the type of measurement made.

Chart 1. A. Normal Daily Average Temperature (°F. 1941-70), August.


ALASKA
0 100 300 400
HAWAII
0 50 100
79
81
79
76
38
54
52
54
51
53
55
49
50
49
51
54
56
55
48
85
85

B. Temperature Departure from 30 - Year Mean (°F 1941-70), August 1975

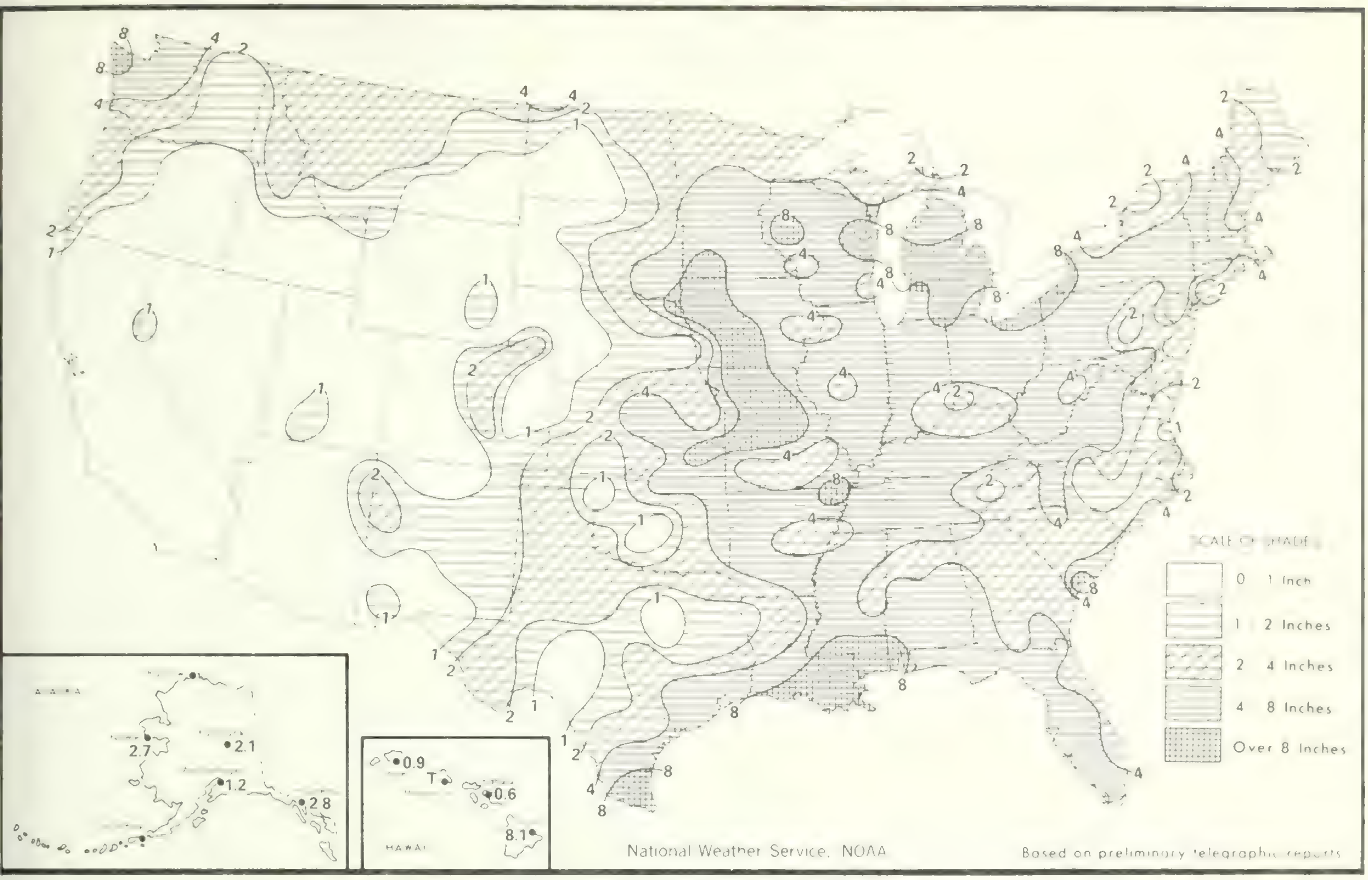

ALASKA
Barrow
Nome 0
Fairbanks +1
Anchorage +1
Juneau 0
Cold Bay
HAWAII
Lihue 1
Honolulu
Kahului -2
Hilo 0
+2
-2
+4
-4

Shaded Areas Normal or Above

National Weather Service, NOAA

Based on preliminary telegraphic reports

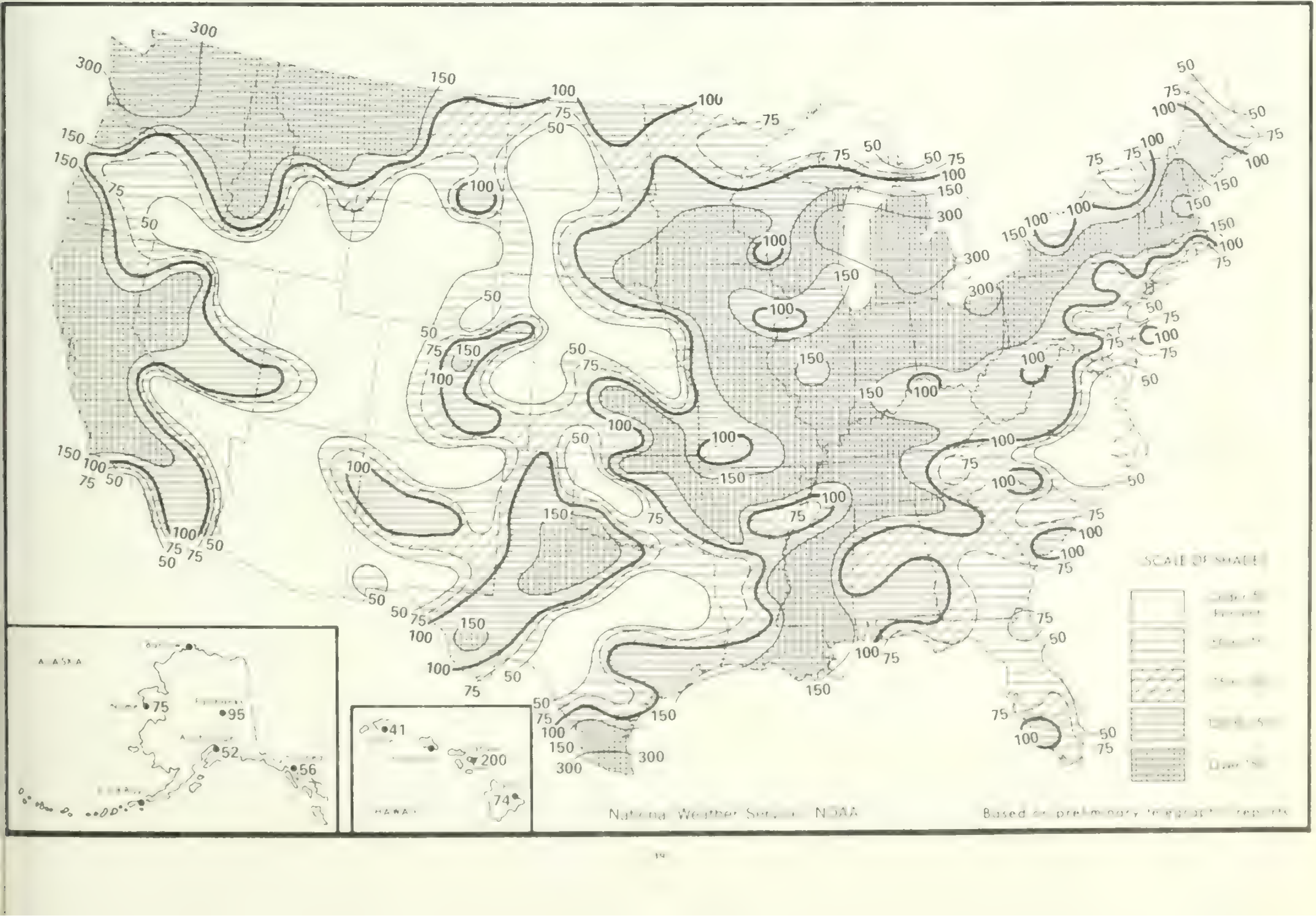
Chart II. A Total Precipitation (Inches), August 1975


SCALE OF SHADE
0 – 1 Inch
1 – 2 Inches
2 – 4 Inches
4 – 8 Inches
Over 8 Inches
ALASKA
2.7
2.1
1.2
2.8
HAWAII
0.9
T
0.6
8.1

National Weather Service, NOAA

Based on preliminary telegraphic reports

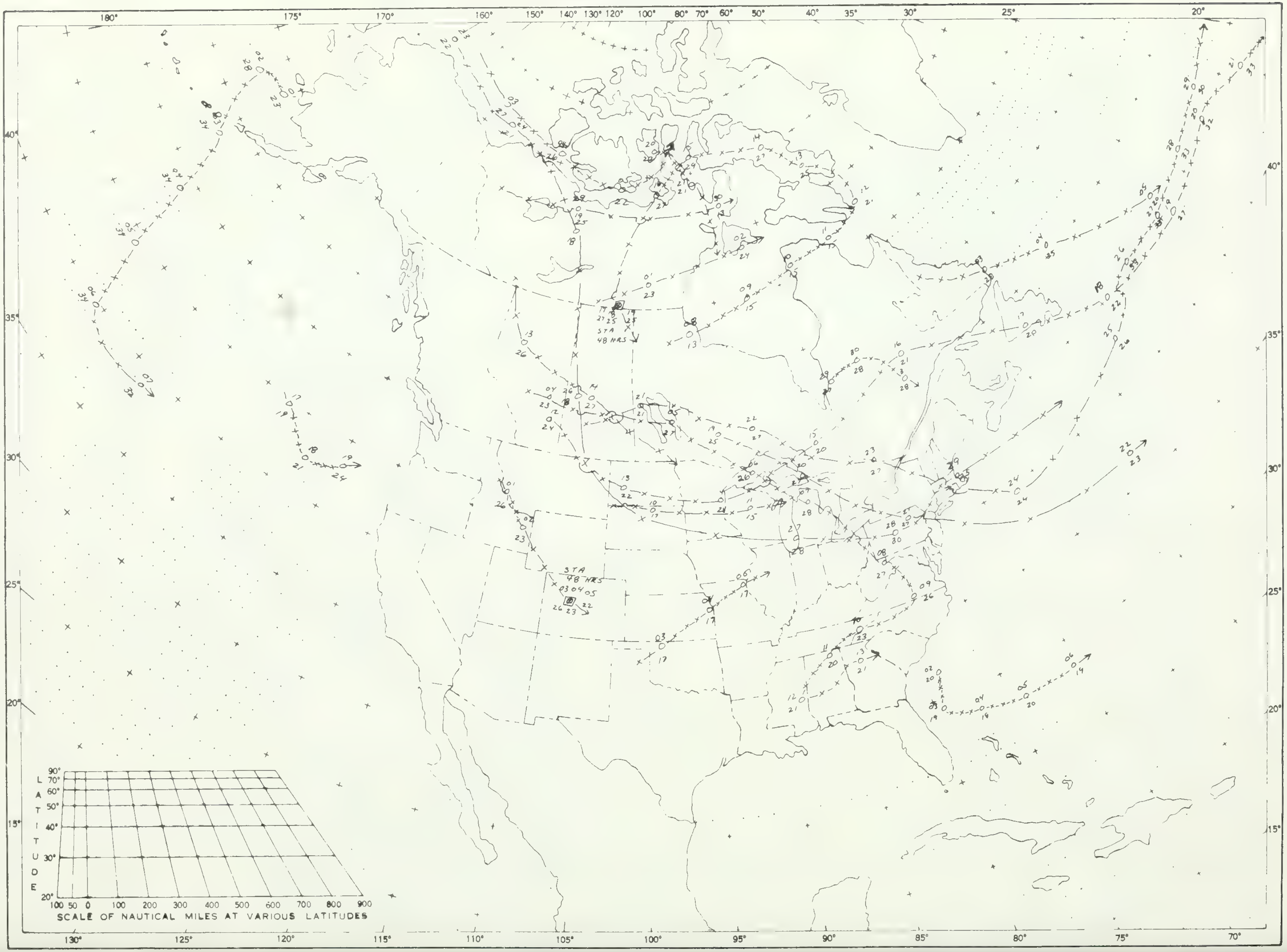
B. Percentage of Normal Precipitation, August 1975


SCALE OF SHADE
ALASKA
75
95
52
56
HAWAII
41
200
74

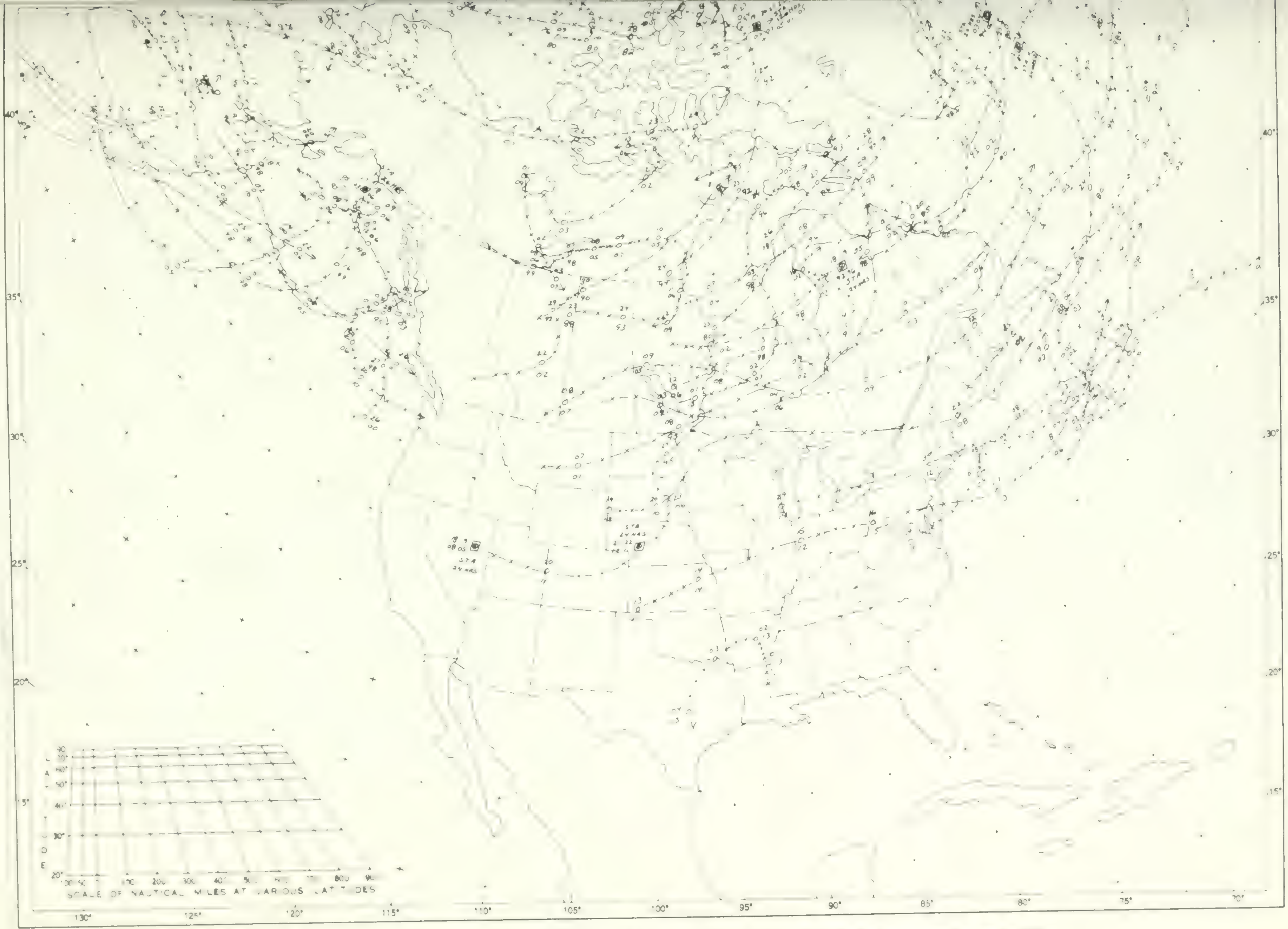
National Weather Service, NOAA

Based on preliminary telegraphic reports

Chart III. Tracks of Centers of Anticyclones at Sea Level, August 1975


STA 48 HRS
SCALE OF NAUTICAL MILES AT VARIOUS LATITUDES
LATITUDE
90°
70°
60°
50°
40°
30°
20°
100 50 0 100 200 300 400 500 600 700 800 900
180°
175°
170°
160°
150°
140°
130°
120°
100°
80°
70°
60°
50°
40°
35°
30°
25°
20°
130°
125°
120°
115°
110°
105°
100°
95°
90°
85°
80°
75°
70°
15°
20°
25°
30°
35°
40°

Circle indicates position of center at 7:00 a.m. E.S.T. Figure above circle indicates date, figure below, pressure to nearest


40°
35°
30°
25°
20°
15°
130°
125°
120°
115°
110°
105°
100°
95°
90°
85°
80°
75°
70°
STA
24 HRS
SCALE OF NAUTICAL MILES AT VARIOUS LATITUDES
LATITUDE
100
200
300
400
500
800
900

Circle indicates position of center at 7:00 a.m. E.S.T. Figure above circle indicates date, figure below, pressure to nearest millibar. X's indicate intervening 6 hourly positions. Squares indicate position of stationary center for period shown. Dashed line in track indicates reformation at new position. Only those centers which could be identified for 24 hours or more are included.

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AMERICAN REVOLUTION BICENTENNIAL
1776-1976

SEPTEMBER 1975 VOLUME 26 NUMBER 9

CLIMATOLOGICAL DATA

NATIONAL SUMMARY

DEPARTMENT OF COMMERCE * UNITED STATES OF AMERICA *

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Thomas D. Potter
DIRECTOR
NATIONAL CLIMATIC CENTER

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NOTE: Late reports and corrections will be carried in the June and December issues of this publication. An explanatory page "Description of Charts" will be carried in the January and July issues.

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CLIMATOLOGICAL DATA

NATIONAL SUMMARY

SEPTEMBER 1975

GENERAL SUMMARY OF WEATHER CONDITIONS

Dr. Richard E. Felch, Climatologist

HIGHLIGHTS: Cooler than normal temperatures prevailed across most of the Nation in Septemper. Exceptions to this trend, areas west of the Rockies and the extreme Southeast averaged above normal readings. Throughout most of the Nation monthly precipitation totals were generally well above or well below normal. The eastern quadrant got the heaviest soaking when remnants of Hurricane Eloise poured 8 to 14 inches on that area during the last week of the month. Total September rainfall measured generally below normal in the Great Plains, Corn Belt, and extreme Northwest.

September marked a seasonal change for the Northwest and Northeast when cold air moved southward from Canada at the beginning of the month. Across much of the Plains, nighttime temperatures signaled fall's arrival and dipped into the 40°'s and 50°'s. Frost turned up for the first time in the Colorado Rockies and Montana on the 2d--the same day that Omaha, NE, read a new record high of 100°. In portions of the West, temperatures ranged up to 20° above normal.

Most precipitation amounts during the first week were light, although a few severe thunderstorms produced tornadoes, strong winds, and hail in parts of the Ohio and Mississippi Valleys.

Cold temperatures broadened their coverage during the 8th-14th, when a mass of cool air left behind record lows and some frost as it made its way towards the Atlantic. On the morning of the 12th, new record lows were chalked up for Sheridan, WY, 30° and Kansas City, MO, 45°. In the Great Lakes region temperatures slipped as low as 20° below normal during the second week of the month. West of the Divide, warm air and clear skies pushed the mercury into the 80°'s and 90°'s. Thunderstorms during the week caused some damage in parts of the Midwest and isolated activity dotted the Gulf and southern Atlantic Coasts.

As a result of a cold front, unseasonably cool temperatures persisted into the third week of September and on the 15th more record lows were added to the list: Albany, NY, 33°; Raleigh, NC, 45°; and Richmond, VA, 44°. Showers and thundershowers associated with the front spread from the Great Plains into the Ohio and Mississippi Valleys. Locally heavy rains drenched parts of the Southwest and south central Plains. Meanwhile a high pressure system kept weather warm and dry in the Pacific Northwest. On the 16th tropical storm Eloise came to life in the southern Atlantic.

The last week of the month registered a number of weather extremes across the Nation. On the 23d, a week after Eloise first showed up in the Atlantic, the eye of the hurricane moved inland, delivering rains that caused flooding in many eastern areas. Pennsylvania and New York States were especially hard hit. By the 30th precipitation in the East diminished but damaging floods served as a reminder of the storm. In contrast, in the Northwest, Septemper ended as a record dry month for Washington and Oregon. Final tallies showed that Seattle, WA, received only a trace of rain during September compared to its monthly normal of almost 2 inches. In Astoria, OR, where normal for the month is 2.83 inches, only .04 inches of rain fell.

HURRICANE ELOISE

SEPTEMBER 13 - 24, 1975

National Hurricane Center, NOAA
Miami, Florida

METEOROLOGICAL HISTORY

The disturbance which spawned Eloise left the African west coast on September 6 as a rather unimpressive system on satellite pictures, although the Dakar, Senegal, upper air sounding gave evidence of a fairly strong cyclonic circulation at lower levels. The disturbance moved westward at an average speed of 13 knots during the next six days with satellite pictures and ship reports giving evidence of a very gradual increase in convection and organization.

The first sign that a weak depression had formed came early on the 13th when the Netherlands tanker GULF HANSA (PELP) reported northerly winds of 20 kt and seas up to 10 feet. Later that morning an Air Force reconnaissance aircraft located the center about 600 miles east of the Virgin Islands. Satellite pictures, ship, and reconnaissance reports during the next 48 hours confirmed a trend of slow intensification. A reconnaissance aircraft found that winds had reached tropical storm strength during the early morning hours of the 16th, and the first advisory on Eloise was issued by the San Juan Hurricane Warning Office at 6 AM AST. Previously, bulletins had been issued since the 13th warning the northern Leewards, Virgin Islands, and Puerto Rico of heavy rains and gusty winds to gale force.

Eloise strengthened rapidly and NOAA aircraft reported winds reached minimal hurricane force prior to its striking the northeast coast of the Dominican Republic late on the 16th. For the next 36 hours the center and much of the circulation was over land. Falling pressures to the northwest of Eloise were expected to keep the center north of the Dominican Republic and Cuba. However, the center tracked westward across extreme southeastern Cuba into the northwestern Caribbean Sea north of Jamaica.

The mountainous terrain of Hispaniola and Cuba caused Eloise to weaken to a minimal tropical storm with a marked decrease in associated rainfall by the time the center finally emerged over open water.

A favorable upper level flow pattern continued over the storm, as it had since the 13th, with anticyclonic outflow enhanced by a cold low traveling westward about 500 miles in advance. The lower level circulation had been distorted by the encounter with land and was also somewhat adversely affected by an approaching trough from the west. Even though the center was over the open, warm waters of the Caribbean Sea and rising pressure to the north were contributing to more favorable low level conditions, Eloise remained poorly organized until it approached the northeast coast of Yucatan late on the 20th with winds of gale force mainly in squalls northeast of the center. From the time the center approached the Dominican Republic until it moved into the central Gulf of Mexico, it varied from 40 to 60 miles in diameter. Reconnaissance reports and upper air soundings suggested a fairly large slope of the center with height from the surface prior to its reaching the Gulf of Mexico, and satellite pictures continually showed the heaviest convection well south and east of the center. Lack of reconnaissance and surface reports while the broad center was over the Dominican Republic, Cuba, and adjacent waters has led to more than normal uncertainty in the locations and intensities on the best track from the 17th at 00Z to 12Z of the 21st.

An approaching upper level trough in the westerlies caused Eloise to turn to the north after crossing the Yucatan peninsula just north of Cozumel, Mexico. This enhanced an already favorable outflow pattern aloft, while rising pressures around the storm had made low level conditions more favorable for intensification. Eloise began a steady strengthening north of the Yucatan peninsula, regaining hurricane force in the central Gulf of Mexico about 350 miles south of New Orleans on the morning of the 22d. The hurricane continued strengthening until landfall about midway between Fort Walton Beach and Panama City shortly after 8 AM EDT on the 23d. At that time it was moving north northeast at better than 20 knots, and had been monitored continuously by Air Force reconnaissance aircraft and National Weather Service radar at Pensacola, Apalachicola, and Slidell (New Orleans) during the last 12 hours prior to landfall.

The hurricane weakened rapidly after landfall as drier, colder air was drawn into its circulation. It was downgraded to a tropical storm by noon while over east central Alabama, a tropical depression by early evening while over eastern Tennessee, and lost all tropical characteristics by the time it reached extreme western Virginia on the morning of the 24th.

A low pressure center identifiable as the remnant of Eloise was no longer discernable by late on the 24th. However, the moisture brought northward by the hurricane combined with an old frontal system over the northeastern United States to produce heavy rainfall and serious flooding until skies cleared on the 27th.

METEOROLOGICAL DATA
DEATHS, DAMAGE ESTIMATES

1. Northern Leeward Islands, Virgin Islands, Puerto Rico, Dominican Republic, and Haiti.

The primary effects of Eloise in these areas was flooding resulting from torrential rains and consequent deaths and damages. Total storm rainfall amounts ranged from 5-10 inches from St. Kitts and St. Martin westward across St. Croix to Puerto Rico with amounts of 10-20 inches common over eastern and southwestern Puerto Rico. The greatest total reported was 26.7 inches near Sabana Grande in southwest Puerto Rico. Lesser amounts of 1-3 inches fell at St. Thomas and other northern Leeward Islands. No storm totals are available from Hispaniola but incomplete rainfall observations and satellite pictures indicate torrential rains occurred over the eastern and southern portions of the Dominican Republic and southern Haiti.

River and flash floods and landslides caused most of the deaths in this area. Press accounts report 18 deaths in southern Haiti and 7 deaths in the Dominican Republic. There were 34 confirmed deaths in Puerto Rico. Property damage in Puerto Rico is estimated in excess of $60 million with no estimates elsewhere.

The strongest winds were north of the center and remained offshore from Puerto Rico and the Dominican Republic. St. Croix had a gust to 45 knots. Ponce and Mayaguez in Puerto Rico, had gusts to 35 kt. The maximum sustained wind of 45 knots was reported from Cape Engano on the northeastern tip of the Dominican Republic.

2. Extreme southeastern Bahamas, Cuba, Jamaica, Cayman Islands, northeast Yucatan.

Eloise weakened throughout most of the period it was affecting these areas. In addition, satellite pictures indicated most of the heavier rainfall missed the land areas. A squall of 45 knots occurred on Cayman Brac during the afternoon of the 19th. Sustained winds of 40 knots were reported along the southeast coast of Cuba on the 18th. There were no other reports of high winds, and no deaths or significant damage reports from this region.

3. United States.

a. Southeast.

Eloise strengthened until reaching the coast with the minimum pressure of 955 mb observed at Destin, FL. The maximum sustained surface winds during Eloise's lifetime were estimated to be 110 knots, also at landfall, although flight level winds reported by reconnaissance aircraft at 700 mb were somewhat higher.

The highest sustained winds along the coast were not measured as most wind measuring equipment failed. However, a gust to 135 knots was observed on a 98-foot tower located 13 miles offshore from Panama City. Winds of hurricane force were reported from Fort Walton Beach to Panama City and northward into extreme southeastern Alabama. Gales were reported from the southeastern Louisiana delta to Cedar Key, FL, and northward over most of Alabama and western Georgia to extreme southeastern Tennessee.

Preliminary measurements indicate hurricane tides of 12-16 feet above normal occurred from just east of Fort Walton Beach to south of Panama City. Tides of 6-12 feet were reported eastward to Port St. Joe with 3-5 feet elsewhere in the gale warning area, and 2-3 feet along the Florida west coast from Naples northward to Cedar Key.

Preliminary reports indicate 10 or more tornadoes occurred from northwestern Florida to western North Carolina, causing no deaths and only minor damage.

Rainfall amounts ranged from 4 to 8 inches from extreme southeastern Louisiana to the Panama City area and northeastward to the western Carolinas. The greatest total reported was 14.9 inches at Eglin Air Force Base, FL.

There were four storm related deaths, although none occurred as a direct result of the winds or storm surge during the passage of Eloise. Most of the estimated $100-150 million damage occurred along the 25-mile Panama City Beach Strip, mainly as a result of the high tides undermining the beachfront structures.

Approximately 100,000 residents from southeastern Louisiana to northwestern Florida evaucated before Eloise reached the coast.

b. Northeast.

A low pressure center identifiable as the remnants of Eloise was no longer apparent late on the 24th. However, the combination of the moisture brought northward by Eloise and a stagnant frontal zone produced rainfall amounts of 4-10 inches over a large area from northern Virginia and Maryland through Delaware and New Jersey, into the eastern half of Pennsylvania, and southeastern and south central New York state.

Major flooding took place on the Chemung, Susquehanna, Potomac, and Shenandoah rivers with flash floods along smaller rivers and streams.

The 17 deaths in the area were mostly drownings. Damages are estimated at 300 million dollars with the bulk of it occurring as crop and road damage.

FORECASTS AND WARNINGS

Warnings of flooding from heavy rains were given for Puerto Rico and the Virgin Islands 24 hours or more in advance. Hurricane warnings for the Dominican Republic were issued less than 12 hours in advance because of the rapid intensification of Eloise.

Although hurricane warnings were issued 24 hours in advance for the Gulf coast area devastated by Eloise, and the forecast error for landfall was about the average for landfalling U.S. storms/hurricanes, the rather early mention of a landfall point led to some mis-interpretation of the warnings, and a subsequent delay in action on evacuation.

Eloise generated hurricane tides somewhat higher than previous numerical and empirical techniques had indicated for a hurricane of this strength. The peak surge rose rapidly, lasting about 30 minutes. The presence of sand dunes in the landfall area may have contributed to some of these effects, but further study is needed before any definite conclusions can be made. There is little doubt, however, that the erosion of the sand dunes led to much of the destruction along the beaches.

HURRICANE ELOISE

SEPTEMBER 13 - 24, 1975

Preliminary Best Track

	TIME	POSITION		WIND	PRESSURE	
DATE	GMT	LATITUDE	LONGITUDE	(KT)	(MB)	STAGE
9/13	0600Z	17.5	54.1	25		Tropical Depression
	1200Z	17.6	55.2		1009	
	1800Z	17.7	56.3			
9/14	0000Z	17.8	57.3			
	0600Z	17.9	58.3			
	1200Z	18.0	59.4		1009	
	1800Z	18.1	60.5			
9/15	0000Z	18.3	61.7			
	0600Z	18.5	62.8			
	1200Z	18.8	63.8	30	1007	
	1800Z	18.9	64.8			
9/16	0000Z	19.0	65.6	35		Tropical Storm
	0600Z	19.2	66.7	45		
	1200Z	19.4	67.5	55	1002	
	1800Z	19.5	68.4	65		Hurricane
9/17	0000Z	19.6	69.2		997	
	0600Z	19.7	70.2	60	1000	Tropical Storm
	1200Z	19.7	71.2	55		
	1800Z	19.8	72.2	50		
9/18	0000Z	19.9	73.3	45		
	0600Z	19.9	74.5			
	1200Z	19.9	75.7	40		
	1800Z	20.0	77.0			
9/19	0000Z	20.0	78.2	35		
	0600Z	19.9	79.1			
	1200Z	19.9	79.8			
	1800Z	19.8	81.0			
9/20	0000Z	19.8	82.2			
	0600Z	19.8	83.4			
	1200Z	19.9	84.6		1006	
	1800Z	20.0	85.5			
9/21	0000Z	20.2	86.4	40	1001	
	0600Z	20.8	87.1	45		
	1200Z	21.4	87.8	50		
	1800Z	22.4	88.5	55	995	
9/22	0000Z	23.6	88.9	60		
	0600Z	24.8	89.4	65	993	Hurricane
	1200Z	25.8	89.5	75	986	
	1800Z	26.5	89.4	85	980	
9/23	0000Z	27.3	88.5	95	968	
	0600Z	28.4	87.3	105	958	
	1200Z	30.2	86.3	110	955	
	1800Z	33.0	85.7	55	982	Tropical Storm
9/24	0000Z	35.5	84.3	30	999	Tropical Depression
	0600Z	36.5	83.5	20	1004	Extratropical
	1200Z	37.0	82.5			
	1800Z	37.5	81.5			

LANDFALL 30.4N 86.2W at 23/1215Z

HURRICANE FAYE

SEPTEMBER 18 - 29, 1975

National Hurricane Center, NOAA
Miami, Florida

A tropical disturbance moved westward off the African coast on September 14th and during the next few days gradually developed the characteristics of a tropical depression. The center of the depression was first located by satellite pictures 500 miles west of the Cape Verde Islands on the 18th.

On the 19th satellite classification indicated the system had attained winds of tropical storm strength, and it was designated Faye. Tropical Storm Faye moved steadily westward until the 23d when strong wind shear associated with an upper level trough began to weaken the storms circulation and Faye was downgraded to a depression about 500 miles northeast of the Leeward Islands.

The depression turned northward temporarily on the 24th and began to move into a more favorable circulation pattern. Faye regained tropical storm and then hurricane strength during the 25th and began a northwesterly movement that would continue until the 27th, with the center passing just east of Bermuda on the evening of the 26th.

Faye turned toward the north shortly after passing Bermuda and by the afternoon of the 27th came under the influence of strong westerly flow which dominated the North Atlantic north of latitude 40N. Thereafter, Faye developed an east northeast to east course with rapid acceleration. The storm gradually lost all tropical characteristics as it moved eastward at 40 knots some 200 miles north of the Azores.

Damage to Bermuda was minor since the island remained on the weak side of the storm. Faye was not a severe hurricane with reconnaissance aircraft indicating the highest winds were 90 knots and lowest pressure 977 mb.

HURRICANE FAYE

SEPTEMBER 18 - 29, 1975

Preliminary Best Track

DATE	TIME (GMT)	POSITION LATITUDE	POSITION LONGITUDE	MAXIMUM WINDS (KTS)	LOWEST PRESSURE (MBS)	STAGE
9/18	0600Z	17.5	33.5	25		Tropical Depression
	1200Z	17.8	34.4			
	1800Z	18.3	35.3			
9/19	0000Z	19.0	36.4			
	0600Z	19.6	37.6	30		
	1200Z	20.0	39.0	35		Tropical Storm
	1800Z	20.4	40.2	40		
9/20	0000Z	20.5	41.3			
	0600Z	20.5	42.7			
	1200Z	20.3	44.0			
	1800Z	20.2	45.3			
9/21	0000Z	20.3	46.2			
	0600Z	20.3	47.0			
	1200Z	20.3	47.8			
	1800Z	20.4	48.5	35		
9/22	0000Z	20.5	49.3			
	0600Z	20.5	50.0			
	1200Z	20.4	50.8			
	1800Z	20.4	51.5			
9/23	0000Z	20.4	52.2			
	0600Z	20.3	53.4			
	1200Z	20.4	54.6	30		Tropical Depression
	1800Z	20.6	55.8			
9/24	0000Z	20.8	56.5			
	0600Z	21.5	57.1	25		
	1200Z	22.4	57.0			
	1800Z	23.0	56.9		1005	
9/25	0000Z	23.8	57.2	30		
	0600Z	24.2	58.1	35		Tropical Storm
	1200Z	24.8	58.8	45	999	
	1800Z	25.5	59.4	60	993	
9/26	0000Z	26.5	60.0	65	990	Hurricane
	0600Z	27.9	60.9	70	988	
	1200Z	29.6	62.0	75	985	
	1800Z	31.0	63.1	85		
9/27	0000Z	32.7	64.2	90		
	0600Z	34.4	65.2		979	
	1200Z	36.1	65.7		982	
	1800Z	37.4	65.0		985	
9/28	0000Z	38.4	63.7	85		
	0600Z	39.8	60.5	80		
	1200Z	41.0	57.1	75	979	
	1800Z	42.3	52.0		977	
9/29	0000Z	42.8	46.0	70		
	0600Z	42.9	40.0			
	1200Z	43.0	34.0	60		Extratropical

HURRICANE GLADYS

SEPTEMBER 22 - OCTOBER 3, 1975

National Hurricane Center, NOAA
Miami, Florida

The disturbance from which Gladys evolved followed the one which formed Faye by about four days as it crossed the eastern part of the tropical Atlantic. Faye took a more northern course near latitude 20N while the predecessor of Gladys followed to the southeast near latitude 11N.

No reconnaissance data nor ship reports were available from the immediate vicinity of the system from the time it was a tropical disturbance until two days after it became a hurricane. Therefore, estimates of the maximum wind and central pressure during this period are based on satellite photographs. These pictures suggest that a depression formed on September 22 and reached tropical storm intensity about 48 hours later. An eye became apparent on satellite pictures on the 25th and Gladys was upgraded to a hurricane.

Shortly after Gladys became a hurricane, it came under the influence of strong vertical wind shear which prevented further intensification. Gladys barely maintained hurricane strength for the next four days and winds may even have dropped below the hurricane threshold on the 28th as the central pressure rose to 1000 millibars.

However, as Gladys tracked west northwestward on the 29th, and the cold low which was east of the Bahamas receded to the southwest, the influence of the strong westerly shear ended and the hurricane deepened rapidly.

During the next two days, the forecast problem centered on the degree of persistence of the ridge to the north and its effect on the recurvature of the hurricane. Even though Gladys turned toward the north northwest on October 1, and was expected to turn toward the north on the following day, the threat to the Outer Banks of North Carolina was sufficient to warrant a hurricane watch, which was issued for the area from Cape Lookout to Kitty Hawk at 6 PM EDT, on the 1st. Because of rising tides and increasing swells of eight feet, local officials closed the Cape Hatteras National Seashore road and campground.

As the hurricane center passed about 300 miles east of Cape Hatteras, it reached its lowest pressure of 939 millibars with highest winds estimated 120 kts. This is one of the lowest recorded pressures in a hurricane that far north.

Gladys turned to the northeast and accelerated on the 2d. It became apparent that the center would miss the North American continent but it still posed a threat to the island of Newfoundland. The hurricane attained a forward speed of more than 50 mph and two reconnaissance planes were unable to penetrate the center due to severe turbulence. The center passed about 70 miles off Cape Race, Newfoundland, about daybreak on the 3d and gradually became extratropical as it sped northeastward and merged with a cold front during the day.

No reports of casualties or damage due to Gladys have been received.

HURRICANE GLADYS

SEPTEMBER 22 - OCTOBER 3, 1975

Preliminary Track

DATE	TIME GMT	POSITION LATITUDE	POSITION LONGITUDE	PRESSURE (MBS)	WIND (KTS)	STAGE
9/22	1800Z	10.3	34.8	1012	25	Tropical Depression
9/23	0000Z	10.6	35.8			
	0600Z	11.0	36.7			
	1200Z	11.4	37.4			
	1800Z	11.7	38.2	1010	30	
9/24	0000Z	12.1	38.8			
	0600Z	12.4	39.6			
	1200Z	12.9	40.0			
	1800Z	13.5	40.4	1005	35	Tropical Storm
9/25	0000Z	14.2	41.0		40	
	0600Z	14.8	42.0	1000	50	
	1200Z	15.4	43.0		60	
	1800Z	15.8	44.0	990	65	Hurricane
9/26	0000Z	16.2	45.0			
	0600Z	16.4	46.1			
	1200Z	16.6	47.7			
	1800Z	16.8	49.3			
9/27	0000Z	17.1	50.7			
	0600Z	17.6	52.2			
	1200Z	18.2	53.7			
	1800Z	18.8	55.1			
9/28	0000Z	19.4	56.4	992		
	0600Z	19.6	57.4			
	1200Z	19.8	58.2	1000		
	1800Z	20.3	59.3	998		
9/29	0000Z	21.2	60.3	995		
	0600Z	22.1	61.4	990	70	
	1200Z	23.0	62.6			
	1800Z	23.6	63.9	985	75	
9/30	0000Z	24.1	65.2	975	80	
	0600Z	24.6	66.5			
	1200Z	25.1	67.9			
	1800Z	25.6	69.3			
10/1	0000Z	26.1	70.6			
	0600Z	26.8	71.7			
	1200Z	27.9	72.4			
	1800Z	29.4	73.0	969	90	
10/2	0000Z	31.0	73.0	954	100	
	0600Z	32.9	72.1	942	110	
	1200Z	35.3	69.8	939	120	
	1800Z	37.8	67.0			
10/3	0000Z	40.8	62.6	950	110	
	0600Z	43.7	57.0	960	85	
	1200Z	46.6	50.6			
	1800Z	50.5	45.5	975	75	Extratropical
10/4	0000Z	55.0	40.0	980	65	

OBSERVED EXTREMES OF TEMPERATURE AND PRECIPITATION -- BY STATES

SEPTEMBER 1975

STATE	Temperature						Precipitation			
	Monthly extremes						Monthly extremes			
	Station	Highest	Date	Station	Lowest	Date	Station	Greatest	Station	Least
		°F			°F			In.		In.
Alabama	Centre 5 SW	100	5	Haleyville 3 NE	34	27	Robertdale	13.71	Greensboro	1.98
Alaska	Annette WSO AP	75	22	Galbraith	-10	26	Mac Leod Harbor	35.65	Fairbanks WSFO AP	.20
Arizona	Sacaton	112	1	Hawley Lake	23	23	Blue	5.83	Dateland Whitewng Ranch	.00
Arkansas	2 Stations	103	4+	2 Stations	32	26	Hector	8.83	Stuttgart 9 ESE	1.12
California	Death Valley	116	6+	Bodie	23	2	Warner Springs	2.93	125 Stations	.00
Colorado	Wray	103	1	Spicer	9	22	Great Sand Dunes Nat. Mon.	3.42	2 Stations	.00
Connecticut	Norwalk Gas Plant	82	1	Wigwam Reservoir	26	15	Danbury	12.54	New Haven Airport	5.88
Delaware	2 Stations	87	25+	Milford 2 WSW	38	15	Georgetown 5 SW	8.62	Wilmgton Porter Reservoir	5.32
Florida	2 Stations	97	5+	Smith Creek	42	27	Loxahatchee	15.54	Live Oak	2.46
Georgia	Cartersville	100	5+	La Grange	39	28	Ringgold	13.97	Abbeville	1.49
Hawaii	Keaau 92	93	4	Mauna Loa Slope Obs.	32	27	Honomu Mauka 138	7.96	9 Stations	.00
Idaho	4 Stations	98	15+	Idaho Falls 16 SE	15	21	Fenn Ranger Station	1.24	30 Stations	.00
Illinois	2 Stations	98	4+	Mount Carroll	28	26	Bluffs	6.86	Antioch 2 NW	.76
Indiana	Madison Sewage Plant	97	3	2 Stations	32	14	Madison Sewage Plant	4.86	Lagrange Sewage Plant	1.08
Iowa	2 Stations	102	1	Independence 2 SW	25	26	Blockton 2 S	6.86	Osage	.24
Kansas	Webster Dam	108	1	2 Stations	26	26+	Oswego 1 N	7.36	2 Stations	.00
Kentucky	Pikeville	100	5	Gray Hawk	35	15+	Ravenna Lock 12	10.36	Owensboro 2 W	2.32
Louisiana	Logansport 4 ENE	100	3+	2 Stations	40	26	Quarantine	12.95	Hosston	T
Maine	Saco	80	22	Middle Dam	25	16+	Belfast	5.20	Woodland	2.74
Maryland	Salisbury	92	6	Oakland 1 SE	31	14	Westminster 2 SSE	18.11	McHenry 2 NW	3.97
Massachusetts	3 Stations	83	6+	Chester 2	24	15	Westfield	11.18	Nantucket FAA AP	1.79
Michigan	2 Stations	83	3	Champion Van Riper Park	21	25	Grand Marais 1 SSE	6.00	Montague 4 NW	.52
Minnesota	Redwood Falls FAA AP	93	2	Roseau 1 E	17	13	Isle 8 N	4.68	Rochester WSO AP	.38
Mississippi	Columbia	100	1	2 Stations	37	28+	Vancleave	11.16	Germania	.98
Missouri	4 Stations	103	4+	Steelville 2 N	29	26	Springfield WSO AP	11.36	Butler	1.45
Montana	3 Stations	92	16+	Cooke City	14	30+	Bozeman 12 NE	2.94	2 Stations	.00
Nebraska	3 Stations	105	2+	Agate 3 E	20	21	Falls City	7.50	Merriman	.12
Nevada	Sunrise Manr Las Vegas	110	4	2 Stations	17	22+	Silverpeak	3.55	2 Stations	.00
New Hampshire	Epping	81	21	Mount Washington	23	14+	Mount Washington	12.32	Hanover	3.96
New Jersey	Millville FAA AP	86	4	2 Stations	32	16+	New Brunswick	11.85	Atlantic City	3.82
New Mexico	Rodeo	100	1	Eagle Nest	17	28	Winston	8.63	Corona	.99
New York	4 Stations	84	11+	Old Forge	25	15+	Bedford Hills	12.99	Buffalo WSO AP	2.44
North Carolina	Waterville 2	99	5	Transou	31	14	Lake Toxaway 2 SW	19.57	Bodie Island	3.79
North Dakota	Alexander 18 SW	94	17	Breien	25	13	Lostwood 12 N	5.26	Bowman 11 SE	.02
Ohio	2 Stations	96	6+	Carpenter 1 S	28	14	Caldwell 6 NW	8.85	Napoleon Water Works	2.09
Oklahoma	Alva	104	1	Hooker 2 SW	30	25	Pryor 5 SSE	10.92	2 Stations	T
Oregon	2 Stations	103	6+	Seneca	15	22+	Lost Creek Dam	1.17	79 Stations	.00
Pennsylvania	3 Stations	85	8+	Clermont 4 NW	26	10	Spring Grove	15.03	Erie WSO AP	2.52
Puerto Rico	Trujillo Alto 2 SSW	96	14	Cerro Maravilla	56	17	Dos Bocas	35.32	Ponce City	4.44
Rhode Island	2 Stations	78	21+	Kingston	31	15	North Foster 1 E	7.21	Block Island WSO AP	5.06
South Carolina	2 Stations	100	6+	Caesars Head	40	14	Hogback Mountain	19.72	Blackville 3 W	2.48
South Dakota	Interior 3 NE	104	1	Deerfield 4 NW	10	12	Pierre FAA AP	4.44	Wasta	.00
Tennessee	Norris	102	1	Mountain City 2	32	14	Conasauga 1 NNW	10.42	Milan	2.42
Texas	Breckenridge	104	1	Lipscomb	31	25	Port Isabel	13.64	Boquillas Ranger Station	.09
Utah	2 Stations	101	5+	Woodruff	17	28+	Cedar Point	2.25	3 Stations	.00
Vermont	2 Stations	80	12+	2 Stations	27	15	Northfield 3 SSE	7.45	Burlington WSO AP	4.12
Virginia	Pennington Gap	97	5+	Burkes Garden	28	14	Williamsburg 2 N	18.43	John W. Flannagan Lake	3.89
Virgin Islands	Truman Field FAA AP	96	2	Alex Hamilton Field FAA	58	16	Fountain	14.78	Frenchmans Bay	5.91
Washington	2 Stations	96	10+	Newport	25	21	Tolt South Fork Reservoir	.80	51 Stations	.00
West Virginia	Logan 2 ESE	98	6	Canaan Valley	26	14	Wheeling Warwood Dam 12	10.86	Lewisburg 2 SSW	3.24
Wisconson	Prairie Du Chien	87	1	3 Stations	24	26+	Tomahawk Spirit Reservoir	6.63	Baraboo	.37
Wyoming	Yoder	98	1	Lamar Ranger Station	8	27	Rawlins FAA AP	1.16	10 Stations	.00

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation, ground	Pressure		Temperature											Average relative humidity	Precipitation							Wind					No of days (sunrise to sunset)			Sky cover, tenths (sunrise to sunset)	Possible sunshine
												No of days							No of days		Snow, Ice pellets				Fastest mile (1.6 kilometers)							
		Station	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min 0 C or lower	Average dew point		Total	Departure from normal	Greatest in 24 hours	25 mm or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10		
ALABAMA	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
BIRMINGHAM	189	995.6	1017.9	26.5	15.9	21.2	-2.1	35.6	4	6.1	27	5	0	16.7	81	94	1	64	8	5	0	0	0.6	1	11.6	NW	23	5	11	14	6.5	53
HUNTSVILLE	190	995.5	1018.5	25.3	14.8	20.1	-2.6	34.4	4	4.4	28	5	0	16.1	82	130	46	65	13	4	0	0	0.9	3	12.5	35	23	6	10	14	6.5	
MOBILE	64	1008.5	1016.5	28.8	19.3	24.1	-1.2	34.4	3+	10.0	27+	9	0	18.9	77	187	20	50	16	9	0	0	1.8	4	10.7	36	23+	9	9	12	5.9	
MONTGOMERY	59	1010.2	1017.2	28.4	18.7	23.6	-0.8	35.6	4	9.4	27	10	0	18.3	78	217	105	130	11	6	0	0	1.0	5	18.8	NW	23	8	8	14	6.2	6[illegible]
ALASKA												8																				
ANCHORAGE	35	1006.1	1010.9	12.5	6.7	9.6	0.7	17.2	3	0.0	30	0	1	5.6	75	115	55	45	18	0	0	0	1.4	16	10.3	17	18	1	4	25	8.9	42
ANNETTE	34	1017.3	1021.2	15.6	8.6	12.1	-0.1	23.9	22	5.0	18	4	0	8.9	86	252	-2	61	17	0	0	0	1.2	17	9.4	16	25	8	4	18	7.1	
BARROW	9	1014.6	1015.1	-2.4	-6.6	-4.5	-3.6	4.4	13	-17.2	28	0	28	-5.6	93	13	-2	4	11	0	81	25	0.6	29	10.3	20	20	2	4	24	8.8	
BARTER ISLAND	12	1013.2	1015.0	-0.4	-6.2	-3.3	-3.1	9.4	13	-15.6	24	0	30	-4.4	92	14	-9	4	9	0	175	102	0.7	4	15.6	27	25+	0	5	25	8.9	
BETHEL	38	1002.0	1007.8	9.1	2.9	6.0	-1.2	13.9	1	-2.2	9	0	7	3.9	88	85	23	15	17	0	0	0	1.3	1	12.5	5	9+	0	3	27	9.2	
BETTLES	196			7.3	-0.1	3.6	-0.8	16.1	1	-10.6	27	0	16			60	15	12	14		T	T			11.2	24	19	5	5	20	7.5	
BIG DELTA	386			12.0	2.9	7.5	1.1	17.8	18	-2.2	27	0	9			39	8	13	10		T	T										
COLD BAY	29	1003.7	1007.3	10.2	5.7	8.0	-0.5	13.9	4	0.6	7	0	0	6.7	91	107	7	22	26	0	0	0	2.3	26	18.8	17	13	0	0	30	9.9	
FAIRBANKS	133	994.2	1011.3	12.3	3.1	7.7	0.8	18.3	18	-4.4	27	0	7	1.7	70	5	-22	2	11	0	T	T	1.1	1	13.4	22	16	3	6	21	7.7	
GULKANA	479			12.7	3.1	7.9	1.4	16.7	4	-2.8	30+	0	7			33	-11	8	12		T	0										
HOMER	15	1007.1		12.6	5.1	8.8		15.6	26+	0.6	30	0	0			88	16	28	18	0	0	0	1.0	13	10.3	13	17	1	5	24	8.6	
JUNEAU	4	1017.6	1018.4	13.6	7.9	10.8	1.2	18.3	13	3.3	25+	0	0	7.8	85	184	9	30	23	0	0	0	3.5	11	13.4	12	30	1	1	28	9.5	21
KING SALMON	15	1005.1	1007.2	11.7	5.1	8.4	-0.1	14.4	17	0.6	13	0	0	5.6	84	99	21	24	22	0	0	0	1.9	16	15.6	15	17	0	4	26	9.1	
KODIAK	4	1005.4	1009.7	11.7	5.8	8.8	-1.2	15.6	13	1.7	12	0	0	6.1	86	144	-12	31	19	0	0	0	0.6	15	12.5	7	23	1	5	24	8.8	
KOTZEBUE	3	1011.2	1011.7	5.6	-0.1	2.7	-2.3	11.7	1	-6.7	20	0	18			22	-14	11	8	0	79	25	2.2	2	14.3	36	17	6	6	18	7.1	
MC GRATH	105	997.0	1009.8	9.5	2.1	5.8	-0.7	14.4	13+	-5.6	28	0	10	2.2	81	80	25	20	19	0	0	0	0.2	11	11.2	19	18	1	6	23	8.4	
NOME	4	1009.5	1010.2	6.4	-0.4	3.1	-2.6	12.8	1	-8.3	20	0	19	-1.1	74	40	-21	15	8	0	T	T	1.5	3	13.9	4	17	6	9	15	6.8	31
ST. PAUL ISLAND	7	1009.8	1010.5	7.8	3.8	5.8	-1.1	10.6	5	-2.2	8	0	3	3.3	87	37	-40	10	19	0	10	0	4.0	35	21.0	2	9	0	5	25	9.3	
SUMMIT	731			7.4	1.4	4.4	0.1	12.8	13	-2.2	30	0	8			127	55	20	22	0	94	T			12.5	24	18	2	3	25	8.8	
TALKEETNA	105			12.7	3.9	8.3	0.5	18.3	23	-1.7	30+	0	2			164	49	38	24	0	0	0			6.7	17	30+					
UNALAKLEET	5			9.0	2.2	5.6		13.3	14+	-5.6	21	0	11			78		19	15		0	0			11.2	9	28					
VALDEZ	7			10.6	5.4	8.1	0.0	15.6	1	1.7	30	0	0			326	129		25		0				7.6	28	18					
YAKUTAT	9	1014.6	1015.7	12.2	7.3	9.8	0.7	18.3	23	2.2	22	0	0	8.9	93	742	350	105	25	0	0	0	2.8	10	10.3	12	30+	1	0	29	9.6	
ARIZONA																																
FLAGSTAFF	2135	792.1	1018.1	22.8	5.9	14.4	0.2	27.8	2+	0.0	24	0	1	4.4	60	48	5	17	11	9	0	0	0.4	4	9.8	NE	21	16	11	3	4.[illegible]	71
PHOENIX	340	972.5	1010.5	37.3	22.8	30.1	1.3	40.6	16	18.3	29+	29	0	10.6	34	21	3	20	2	4	0	0	1.7	11	24.6Y	[illegible]	4	23	4	3	2.0	87
TUCSON	788	924.8	1010.8	33.2	20.2	26.7	-0.1	35.6	20+	15.0	29	22	0	9.4	39	32	-3	19	6	7	0	0	2.5	14	15.6	SW	1	21	5	4	2.7	9[illegible]
WINSLOW	1492	854.4	1016.3	27.5	11.7	19.6	-1.2	33.3	1	5.0	23	1	0	8.3	55	65	43	22	10	9	0	0	0.7	13	11.2	13	18	12	13	5	4.1	
YUMA	55	1002.4	1009.6	38.1	24.0	31.1	0.4	41.7	4	18.9	26	29	0	13.9	40	4	-2	2	2	2	0	0	0.7	16	13.0	NE	6	24	6	0	1.5	92
ARKANSAS																																
FORT SMITH	136	1002.0	1018.5	26.4	14.2	20.3	-3.0	35.0	3	4.4	26	6	0	14.4	74	63	-21	32	8	4	0	0	1.1	6	11.6	N	11	13	6	11	4.7	67
LITTLE ROCK	79	1009.1	1018.7	26.8	14.4	20.7	-2.3	36.7	2	5.0	27+	5	0	15.6	76	47	-43	15	7	4	0	0	0.8	3	9.8	NW	19+	11	7	12	5.2	6[illegible]
CALIFORNIA																																
BAKERSFIELD	149	994.9	1012.1	35.1	21.1	28.1	3.3	39.4	25+	18.9	29+	28	0	12.2	41	T	-2	T	0	0	0	0	1.1	32	7.6	32	8	27	2	1	1.1	
BISHOP	1252	875.4		31.6	10.1	20.9	1.2	36.7	5	6.7	30	11	0			30	27	15	4		0	0			19.7Y		9	23	7	0	2.0	
BLUE CANYON	1609	841.2		24.6	14.2	19.4	2.3	30.0	5	8.3	1	0	0			1	-13	1	1		0	0	0.3	19	5.3	21	15					
EUREKA C	13			15.3	10.4	12.9	-0.8	24.4	4	7.8	18	0	0			T	-16	T	1		0	0			9.4	SW	5	4	8	18	7.4	32
FRESNO	100	1001.[illegible]	1012.5	33.1	15.5	24.3	1.1	37.2	5	11.7	29	18	0	12.2	52	6	4	6	1	1	0	0	0.9	28	8.0	NW	10	25	2	3	1.8	93
LONG BEACH	8	1011.9	1013.1	28.9	17.9	23.4	1.3	40.6	24+	15.0	2	6	0	15.6	71	T	-2	T	0	0	0	0	1.[illegible]	26	8.[illegible]	29	24	17	7	6	3.5	
LOS ANGELES	30	1009.5	1013.1	25.0	17.4	21.2	0.8	40.0	23	14.4	3	3	0	15.6	77	T	-2	T	0	0	0	0	2.2	26	10.3Y	W	2	13	11	6	6.2	
LOS ANGELES C	82			28.4	18.2	23.3	0.7	38.9	24+	15.0	3	6	0			0	-4	0	0		0	0			5.8	SW	30	16	7	5	3.6	
MT SHASTA R	1080	894.3	1017.[illegible]	28.7	7.9	18.3	2.1	33.9	5	5.0	29+	4	0	4.4	45	T	-18	T	0		0	0	0.7	3								
OAKLAND	2	1014.9	1015.3	20.5	13.2	16.8	-1.2	30.0	24	10.6	26	0	0	12.2	80	T	-5	T	0	0	0	0	3.2	29	10.7	31	9	13	14	3	4.2	
RED BLUFF	104	1000.3	1012.7	35.5	16.3	25.9	1.9	42.8	8	11.7	28	26	0			T	-8	T	0	0	0	0	0.2	28	13.9	S	8	26	2	2	1.4	95
SACRAMENTO	5	1011.9	1012.7	34.4	15.9	25.2	3.3	41.1	5	12.8	29+	23	0	11.7	51	T	-5	T	0	1	0	0	1.9	[illegible]	11.2	W	6	24	4	2	1.5	[illegible]
SANDBERG R	1377	863.9		28.0	16.8	22.4	1.9	34.4	5	12.8	11+	3	0			1	-5	1	1		0	0			13.0	10	21					
SAN DIEGO	4	1012.2	1013.2	25.3	18.6	21.9	0.9	39.4	23	15.6	27	3	0	15.0	69	T	-3	T	0	0	0	0	2.3	[illegible]	7.6	NW	23+	13	10	7	4.5	67
SAN FRANCISCO	2	1014.2	1015.[illegible]	21.1	11.6	16.3	-1.5	31.7	24	8.3	29	0	0	10.0	74	T	-4	T	0	0	0	0	4.2	[illegible]	10.3	30	20+	16	9	5	3.7	
SAN FRANCISCO C	16			18.3	12.2	15.3	-1.5	31.7	24	10.6	26	0	0			0	-4	0	0			0										
SANTA MARIA	72			22.3	11.3	16.8	-0.2	37.2	24	8.3	15	2	0			T	-3	T	0		0	0						14	9	7	4.6	
STOCKTON	7	1012.2	1013.1	32.2	14.9	23.6	1.3	38.3	5	10.6	28	14	0	11.7	55	T	-4	T	1	0	0	0	2.7	32	9.4	32	9	24	3	3	1.8	
COLORADO																																
ALAMOSA	2297	776.8		21.5	3.1	12.3	-0.6	28.3	1	-3.9	29	0	9			37	19	14	6		0	0						16	6	8	4.2	

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure: Station	Pressure: Sea level	Temperature: Average maximum	Temperature: Average minimum	Temperature: Average	Temperature: Departure from normal	Temperature: Highest	Temperature: Date	Temperature: Lowest	Temperature: Date	Temperature: No of days: Max 32.2 °C or above	Temperature: No of days: Min. 0 C or lower	Average dew point	Average relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	Precipitation: No of days: 25 mm or more	Precipitation: No of days: With thunderstorms	Snow, Ice pellets: Total	Snow, Ice pellets: Maximum depth on ground	Wind: Resultant speed	Wind: Resultant direction	Wind: Fastest mile (1.6 kilometers): Speed	Wind: Fastest mile: Direction	Wind: Fastest mile: Date	No of days (sunrise to sunset): Clear, 0-3	No of days: Partly cloudy, 4-7	No of days: Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m s		m s							%
COLORADO																																
COLORADO SPRINGS	1873	816.1	1018.6	22.8	7.6	15.2	-0.8	32.2	1	2.2	21	1	0	0.6	43	4	-24	3	6	5	0	0	1.5	4	13.0	34	26	18	1	11	4.1	
DENVER	1610	841.2	1018.0	24.1	6.5	15.3	-1.8	30.6	6	-0.6	23+	0	2	1.1	44	6	-23	3	5	2	0	0	0.4	11	13.4	NE	26	17	4	9	4.0	76
GRAND JUNCTION	1476	855.1	1015.7	27.9	11.1	19.5	-0.1	33.9	1	5.0	20	4	0	0.0	31	4	-17	3	4	6	0	0	0.4	10	18.8	E	12	18	9	3	2.7	84
PUEBLO	1428	859.1	1016.7	26.6	8.9	17.8	-1.2	35.0	1	1.1	23	9	0	3.3	44	2	-19	1	3	0	0	0	0.9	8	18.8	N	27	18	2	10	4.2	87
CONNECTICUT																																
BRIDGEPORT	2	1019.3	1019.6	22.2	13.9	18.1	-1.1	26.1	4	7.8	15	0	0	15.0	82	157	84	41	11	0	0	0	0.6	33	12.1	36	12+	9	4	17	6.7	
HARTFORD	52	1013.2	1019.7	22.3	10.7	16.5	-0.6	27.2	8+	1.7	15	0	0	12.2	78	229	139	84	14	4	0	0	0.7	28	10.7	NW	9	6	7	17	7.2	45
DELAWARE																																
WILMINGTON	23	1016.6	1019.6	23.4	13.6	18.6	-1.4	28.3	26+	6.1	14	0	0	13.3	73	157	70	63	15	3	0	0	0.4	36	13.0	35	12	9	3	18	6.8	
DIST.OF COLUMBIA																																
WASHINGTON DULLES	88	1007.8	1019.7	22.9	13.1	18.0	-1.4	30.6	20	4.4	14	0	0	14.4	84	286	202	80	16	4	0	0	0.3	35	8.9	33	12	5	10	15	6.9	
WASHINGTON NATIONAL	3	1017.3	1019.6	24.4	16.1	20.3	-1.2	30.0	4	8.9	14	0	0	15.0	73	314	236	135	12	5	0	0	0.8	36	11.6	NW	12	9	4	17	6.7	48
FLORIDA																																
APALACHICOLA U	6	1015.6	1016.0	29.1	20.4	24.8	-1.1	32.8	2	11.1	27+	2	0	21.1	81	133	-96	42	13	14	0	0	1.5	11	14.3	SW	23	6	10	14	6.2	
DAYTONA BEACH	9	1015.2	1016.5	30.6	22.9	26.4	0.1	32.8	18	20.0	3	3	0	22.2	80	168	-12	93	11	13	0	0	1.5	10	12.5	18	23	6	11	13	6.5	
FORT MYERS	5	1015.2	1015.7	31.4	23.2	27.3	-0.3	33.3	1	21.1	27+	15	0	22.2	79	320	99	71	14	17	0	0	1.8	8	12.1	9	7	3	17	10	6.3	
JACKSONVILLE	8	1016.3	1017.1	31.0	20.5	25.8	0.1	33.9	12+	13.9	26	14	0	21.1	79	133	-66	66	12	12	0	0	0.7	8	11.2	S	12+	5	11	14	6.6	60
KEY WEST	1	1014.2	1014.8	31.0	25.4	28.2	-0.2	32.2	5+	23.9	27+	2	0	23.3	75	181	-6	42	23	19	0	0	3.6	12	14.8	E	7	1	17	12	6.5	83
LAKELAND U	65			31.0	21.7	26.3	-0.4	32.8	17+	18.9	27	10	0			78	-76	28	17		0	0						1	16	13	6.7	78
MIAMI	2	1015.6	1015.8	30.8	24.7	27.8	0.2	33.3	16	22.8	15	6	0	23.3	80	119	-103	28	16	16	0	0	2.7	9	13.4	9	18	2	18	10	6.7	
ORLANDO/MC COY AFB	29	1012.9	1016.7	32.2	21.9	27.1	0.3	34.4	6+	20.0	26	21	0	21.1	78	126	-57	44	15	19	0	0	1.1	7	10.3	18	23	0	18	12	7.0	
PENSACOLA	34	1012.2	1016.4	28.9	20.1	24.5	-1.2	36.1	2	10.0	27+	9	0	17.8	69	293	86	89	9	9	0	0	1.6	4	14.3	33	23	8	9	13	6.2	
TALLAHASSEE	17	1014.6	1016.8	29.8	19.6	24.7	-0.9	34.4	5	10.0	27+	8	0	20.6	84	124	-45	55	12	13	0	0	1.2	5	15.6	19	23	5	11	14	6.6	
TAMPA	6	1015.6	1015.9	31.9	23.4	27.7	0.6	34.4	8+	20.0	26	20	0	22.2	76	284	124	75	17	23	0	0	1.5	9	11.2	10	11	2	13	15	7.0	65
WEST PALM BEACH	5	1015.2	1016.0	30.9	22.9	26.9	-0.6	32.2	17	20.6	2	1	0	22.8	82	294	44	110	18	15	0	0	2.3	11	10.7	18	23+	1	19	10	6.4	
GEORGIA																																
ATHENS	244	988.8	1017.6	26.8	17.7	22.2	-0.3	35.0	4	10.6	27+	3	0	17.8	82	159	61	62	10	6	0	0	0.5	6	9.4	31	20+	8	7	15	6.2	
ATLANTA	308	981.0	1017.5	26.0	16.6	21.3	-1.1	35.6	4	9.4	27	3	0	16.7	81	76	-4	44	10	3	0	0	0.7	4	18.8	SE	23	9	7	14	6.3	56
AUGUSTA	41	1012.2	1017.4	29.1	18.1	23.6	0.2	36.7	5+	11.1	27+	10	0	17.2	74	242	159	116	11	7	0	0	0.7	5	10.3	14	23+	7	10	13	6.4	
COLUMBUS	117	1003.4		28.1	17.8	23.0	-1.2	34.4	5+	8.9	27	10	0	17.2	76	72	-21	29	8	2	0	0	1.1	4	15.6	11	23	10	8	12	5.8	
MACON	108	1005.1	1017.8	28.4	17.2	22.8	-1.5	35.6	4	8.9	27	7	0	17.8	80	120	41	51	8	4	0	0	0.6	6	14.3	SE	23	9	7	14	6.3	51
ROME	194			26.6	15.7	21.2	-1.2	37.2	4	9.4	28	4	0			287	187	87	12		0	0										
SAVANNAH	14	1015.9	1017.9	29.2	20.2	24.7	0.2	33.3	6+	12.8	27	5	0	20.6	81	203	62	89	12	12	0	0	0.7	6	12.1	SE	23	5	7	18	7.1	45
HAWAII																																
HILO	8	1016.3	1017.6	28.5	19.8	24.2	-0.1	30.0	3	17.8	30	0	0	18.3	74	69	-120	16	19	0	0	0	0.4	21	8.0	E	23	6	14	10	6.2	56
HONOLULU	2	1016.6	1016.9	30.7	21.9	26.3	-0.6	32.2	2	18.9	29+	1	0	18.3	65	3	-14	2	4	0	0	0	5.0	6	11.6	E	9	8	17	5	5.2	72
KAHULUI	15	1014.2	1016.4	29.7	19.4	24.6	-1.2	31.1	10+	15.6	27+	0	0			3	-4	3	3	0	0	0	5.4	5	13.0	NE	14+	19	9	2	3.5	82
LIHUE	31	1012.9	1018.1	28.1	22.8	25.4	-0.6	28.9	9	20.6	21+	0	0	20.0	71	11	-36	5	8	0	0	0	4.7	7	9.8	E	16+	4	24	2	4.9	78
IDAHO																																
BOISE	865	918.1	1017.3	28.0	9.2	18.6	1.3	34.4	6	3.3	18	4	0	0.0	31	T	-10	T	1	0	0	0	0.2	12	10.7	NW	1	26	3	1	1.5	93
LEWISTON	431			27.9	10.0	19.0	1.6	32.8	14+	6.1	21+	4	0			T	-22	T	0		0	0			18.3Y		16	24	5	1	1.7	
POCATELLO	1358	866.6	1018.1	26.1	4.9	15.6	0.3	33.3	7	-2.2	21	3	4	-0.6	37	1	-15	1	1	1	0	0	1.0	26	16.1	SW	17	24	5	1	2.1	92
ILLINOIS																																
CAIRO U	96			24.1	15.6	19.9	-2.3	35.6	2	8.3	27	3	0			129	41	73	7		0	0			11.2	SW	11					52
CHICAGO O HARE	201	994.6	1018.8	21.4	11.3	16.3	-1.3	29.4	3+	4.4	28+	0	0	10.0	69	20	-56	13	4	0	0	0	0.6	25	13.0	3	24	6	13	11	6.0	
CHICAGO MIDWAY	185	996.6	1019.3	21.1	11.6	16.3	-2.5	30.0	3	3.9	27	0	0	10.0	67	28	-49	10	9	3	0	0	0.3	23	13.0	NE	24	9	9	12	5.9	60
MOLINE	177	997.6	1019.2	22.0	10.1	16.1	-2.1	30.6	2+	1.1	26	0	0	10.0	70	51	-47	31	7	3	0	0	0.4	27	13.0	NW	23	11	4	15	5.8	49
PEORIA	199	995.3	1019.4	21.8	10.2	16.1	-2.6	32.2	3	3.3	27	1	0	10.6	73	70	-21	27	8	5	0	0	0.3	28	10.7	NW	11	9	8	13	5.8	58
ROCKFORD	221	992.2	1019.3	21.1	7.8	14.4	-2.9	28.9	1	0.0	27+	0	3	8.3	70	23	-78	13	5	0	0	0	0.6	27	13.4	35	11	9	10	11	6.0	
SPRINGFIELD	179	997.0	1019.1	23.4	11.8	17.7	-1.9	33.9	3	3.3	27	3	0	12.2	73	72	-11	42	8	5	0	0	0.1	35	13.4	N	24	9	8	13	6.0	55
INDIANA																																
EVANSVILLE	116	1004.7	1018.8	24.6	13.7	19.2	-1.4	33.9	3	6.7	13	3	0	13.9	73	66	-5	34	9	3	0	0	0.4	34	13.0	SW	11	5	12	13	6.7	51
FORT WAYNE	241	989.2	1019.3	20.8	10.6	15.7	-2.3	30.0	3	2.2	14	0	0	10.6	76	88	23	43	10	2	0	0	0.8	28	16.5	N	5	8	7	15	6.3	57

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure: Station	Pressure: Sea level	Temperature: Average maximum	Temperature: Average minimum	Temperature: Average	Temperature: Departure from normal	Temperature: Highest	Date	Temperature: Lowest	Date	No. of days: Max 32.2 °C or above	No. of days: Min 0 C or lower	Average dew point	Average relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	No. of days: 25 mm or more	No. of days: With thunderstorms	Snow, Ice pellets: Total	Snow, Ice pellets: Maximum depth on ground	Wind: Resultant speed	Wind: Resultant direction	Fastest mile (1.6 kilometers): Speed	Fastest mile: Direction	Fastest mile: Date	No. of days sunrise to sunset: Clear 0-3	Partly cloudy 4-7	Cloudy 8-10	Sky cover tenths sunrise to sunset	Possible sunshine
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
INDIANA																																
INDIANAPOLIS	241	990.2	1019.2	22.4	11.5	17.0	-2.1	32.2	3	3.9	13	1	0	12.8	80	59	-14	36	8	3	0	0	0.3	[illegible]	12.5	NE	24	8	9	13	6.4	52
SOUTH BEND	236	990.9	1018.8	20.9	10.3	15.6	-2.1	30.6	3	2.8	27	0	0	11.7	80	29	-49	11	6	2	0	0	0.8	26	10.3	22	7	7	8	15	6.7	
IOWA																																
BURLINGTON	211			21.7	11.2	16.5	-2.1	32.2	1	3.3	26	1	0	11.7	76	64	-31	22	9	5	0	0	0.4	31	11.2	36	23	1[illegible]	[illegible]	12	5.7	
DES MOINES	284	984.8	1019.3	21.9	11.2	16.6	-1.4	33.9	2+	3.9	26+	2	0	10.6	70	43	-35	18	8	4	0	0	0.3	23	11.6	[illegible]	19	12	5	13	5.5	6[illegible]
DUBUQUE	322	98[illegible]		19.4	8.7	14.1	-2.4	27.8	1	1.7	27+	0	0			49	-69	31	7		0	0										
SIOUX CITY	334	979.3	1019.1	21.9	8.7	15.3	-2.1	34.4	2	-0.6	25	1	1	10.0	73	30	-42	14	6	2	0	0	0.1	22	14.3	[illegible]	19	10	10	10	5.0	67
WATERLOO	265	987.5	1019.4	20.2	7.6	13.9	-2.5	30.0	2	-1.7	26	0	5	7.2	67	20	-72	6	7	3	0	0	0.5	26	[illegible]	32	12	11	7	12	6.0	
KANSAS																																
CONCORDIA	448	965.5	1018.5	24.5	11.2	17.8	-1.9	38.3	1	2.0	25	3	0	9.4	64	44	-36	14	13	6	0	0	[illegible]	16	21.0	[illegible]	4	11	5	13	5.5	[illegible]
DODGE CITY	787	927.9	1017.7	26.7	12.3	19.5	-1.0	38.3	1	3.3	25+	8	0	6.7	49	4	-34	2	4	2	0	0	1.6	15	16.[illegible]	[illegible]	30	10	10	10	5.2	7[illegible]
GOODLAND	1114	891.6	1017.6	25.7	9.9	17.8	-0.2	37.2	1	2.5	30+	7	0			5	-29	2	5	3	0	0	0.5	19	14.[illegible]	30	11	17	4	9	6.3	
TOPEKA	267	967.5	1019.2	25.2	10.3	17.8	-2.3	39.4	1	0.[illegible]	26	5	1	11.7	71	110	27	46	9	7	0	0	[illegible]	22	11.6	[illegible]	4	11	5	14	5.8	59
WICHITA	403	970.9	1018.5	25.7	11.9	18.8	-2.7	37.2	1	4.4	26	7	0	1[illegible].6	63	30	-64	15	5	4	0	0	0.8	18	16.[illegible]	[illegible]	11	11	6	1[illegible]	5.1	65
KENTUCKY																																
COVINGTON	265	987.8	1019.2	22.6	11.2	16.9	-3.0	33.3	5+	3.9	28	3	0	12.8	81	92	26	49	11	3	0	0	0.1	32	14.7	24	5	7	8	15	6.6	
LEXINGTON	294	984.1	1019.4	22.6	12.3	17.4	-2.9	33.9	5	3.9	28	3	0	12.8	78	164	97	55	16	2	0	0	0.3	11	11.2	21	11+	7	5	18	6.8	
LOUISVILLE	145	1001.[illegible]	1018.5	24.2	13.8	19.0	-1.6	34.4	3	5.6	13	5	0	13.9	78	67	-8	17	13	2	0	0	0.4	2	17.9	[illegible]	5	5	7	18	7.1	53
LOUISIANA																																
ALEXANDRIA	28	1013.2	1017.4	29.5	17.2	23.3	-0.8	36.7	2	7.2	27+	12	0	17.2	74	34	-52	2[illegible]	5	1	0	0	1.3	4	8.[illegible]	36	23+	12	8	10	4.9	
BATON ROUGE	20	1014.6	1017.1	29.3	18.1	23.7	-1.6	34.4	3+	8.9	28	7	0	17.8	75	[illegible]	-6	26	12	5	0	0	1.7	4	[illegible]	[illegible]	11	11	1[illegible]	[illegible]	5.1	
LAKE CHARLES	3	1015.6	1016.6	29.6	18.3	23.9	-1.6	34.4	2	10.6	27+	6	0	18.9	79	134	31	1[illegible]	7	7	0	0	2.[illegible]	5	11.[illegible]	1	22+	12	1[illegible]	8	4.7	
NEW ORLEANS	1	1015.6	1016.3	28.6	19.2	23.9	-1.7	33.9	2+	10.[illegible]	26	5	0	20.0	81	101	-41	31	13	9	0	0	1.7	3	11.6	36	22	13	8	9	4.9	65
SHREVEPORT	77	1008.5	1017.6	30.1	16.3	23.2	-2.1	36.7	3	7.8	26	10	0	15.6	68	[illegible]	-53	15	5	3	0	0	1.0	7	[illegible]	30	12	10	10	10	5.4	75
MAINE																																
CARIBOU	190	994.2		17.5	7.4	12.5	[illegible].2	23.3	21	0.0	15	0	1			76	-3	24	16		0	0						3	9	18	7.3	
PORTLAND	13	1014.6	1019.[illegible]	19.2	8.8	14.0	-[illegible].8	25.[illegible]	21	1.1	15	0	0	11.1	84	11[illegible]	32	39	15	1	0	0	0.9	24	[illegible]	SW	12+	5	7	15	6.5	54
MARYLAND																																
BALTIMORE	45	1014.2	1019.9	23.4	14.4	18.9	-1.4	28.9	20	5.6	14	0	0	14.4	79	219	14[illegible]	83	12	4	0	0	0.6	32	13.[illegible]	[illegible]	12	8	7	15	6.4	6[illegible]
MASSACHUSETTS																																
BLUE HILL OBS R	192			20.1	10.9	15.5	-1.4	25.[illegible]	5	4.4	14	0	0			180	86	4[illegible]	11		0	0			1[illegible]	[illegible]	12					52
BOSTON	5	1018.6	1019.6	21.8	13.6	17.7	-0.3	27.2	5	7.8	15	0	0	11.7	72	139	54	44	12	[illegible]	0	0	1.2	[illegible]	12.1	[illegible]	12	1[illegible]	2	18	6.6	5[illegible]
WORCESTER	301	962.7		18.6	9.8	14.1	-2.1	22.8	21+	3.3	15+	0	0			183	94	53	11	2	0	0	1.6	[illegible]	9.[illegible]	[illegible]	24	4	[illegible]	18	7.1	
MICHIGAN																																
ALPENA	21[illegible]	992.9	1018.3	17.9	6.1	12.0	-1.5	23.3	11	-0.6	14	0	2	7.8	79	[illegible]	-33	21	15	2	0	0	1.3	[illegible]	1[illegible]	[illegible]	13+	3	8	14	6.4	4[illegible]
DETROIT	189																								[illegible].8	[illegible]	24+					
DETROIT METRO	193	994.6	1018.7	19.9	10.2	15.1	-2.5	26.7	2	2.6	14	0	0	10.[illegible]	74	81	26	24	11	2	0	0	1.[illegible]	[illegible]	13.[illegible]	[illegible]	24	7	11	12	6.4	53
FLINT	238	990.5	1018.5	19.1	9.1	14.1	-2.0	23.9	10+	1.7	14	0	[illegible]	7.4	76	68	24	32	10	2	T	[illegible]	1.1	25	9.[illegible]	25	21+	5	12	13	6.7	
GRAND RAPIDS	239	989.4	1019.[illegible]	19.6	8.1	13.9	-3.0	25.6	10+	0.6	14	0	0	6.9	76	51	-33	1[illegible]	7	4	[illegible]	[illegible]	[illegible]	24	[illegible]	[illegible]	7	5	[illegible]	13	6.4	47
HOUGHTON LAKE	35[illegible]	976.6	1018.6	17.4	6.7	12.1	-1.8	23.3	[illegible]	-1.1	14	0	1	[illegible]	79	39	-42	9	15	2	T	T	1.2	26	9.[illegible]	[illegible]	11+	4	11	15	6.9	
LANSING	256	987.1	1018.9	19.5	7.3	13.4	-3.1	25.[illegible]	11+	-0.6	14	0	1	7.8	78	42	-25	13	7	3	0	0	1.1	24	11.[illegible]	[illegible]	13	3	1[illegible]	14	7.0	49
MARQUETTE	[illegible]			16.6	8.1	12.3	-1.8	23.9	1	2.2	25	0	0			71	-[illegible]	1[illegible]	14		T	T			13.[illegible]	[illegible]	[illegible]	7	[illegible]	15	6.8	53
MUSKEGON	191	995.9	1019.1	18.8	8.7	13.8	-2.6	24.4	2	1.7	14	0	0	10.[illegible]	74	36	-52	15	8	[illegible]	0	0	0.9	26	1[illegible]	[illegible]	15	6	[illegible]	16	6.6	
SAULT STE MARIE	22[illegible]	99[illegible].9	1017.4	16.7	5.9	11.3	-1.6	23.[illegible]	1	0.0	24+	0	[illegible]	[illegible]	84	130	32	32	[illegible]	2	T	0	[illegible].7	[illegible]	1[illegible]	[illegible]	15+	1	[illegible]	[illegible]	7.4	4[illegible]
MINNESOTA																																
DULUTH	433	95[illegible].1	1017.[illegible]	15.[illegible]	6.0	10.5	-1.9	22.2	14	-1.1	1[illegible]	0	[illegible]	5.1	76	59	-[illegible]	26	1[illegible]	2	[illegible]	0	[illegible]	24	14.[illegible]	[illegible]	11	6	1[illegible]	14	6.[illegible]	4[illegible]
INTERNATIONAL FALLS	359	973.6	1017.[illegible]	16.3	4.3	10.3	-1.3	24.4	14	-3.3	13	0	4	4.1	79	42	-42	9	13	3	[illegible]	[illegible]	[illegible].7	[illegible]	1[illegible]	34	11	5	9	16	6.7	
MINNEAPOLIS	254	988.2	1018.5	19.9	8.6	14.3	-1.3	29.4	1[illegible]	1.7	24	0	0	[illegible]	7[illegible]	39	-36	[illegible]	12	4	[illegible]	0	0.8	24	13.4	[illegible]	19	6	12	12	5.9	5[illegible]
ROCHESTER	39[illegible]	971.2	1019.1	[illegible]	6.9	13.4	-1.7	31.[illegible]	1	0.[illegible]	25	0	1	7.8	71	2[illegible]	-64	[illegible]	9	4	[illegible]	0	1.[illegible]	24	13.4	[illegible]	19	7	4	14	6.3	
ST CLOUD	31[illegible]	961.[illegible]	101[illegible].7	19.2	5.9	12.6	-1.8	27.2	1[illegible]	-1.1	13	0	3			58	-[illegible]	1[illegible]	8			0						7	[illegible]	8	5.5	
MISSISSIPPI																																
JACKSON	94	10[illegible].8	1017.[illegible]	28.5	16.2	22.4	-2.1	33.9	4+	6.7	2[illegible]+	[illegible]	0	17.[illegible]	81	68	-[illegible]	4[illegible]	[illegible]	5	[illegible]	0	1.3	5	[illegible]	[illegible]	[illegible]	12	9	9	6.[illegible]	6[illegible]

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure		Temperature								No of days		Average dew point	Average relative humidity	Precipitation			No of days		Snow, Ice pellets		Wind		Fastest mile (1.6 kilometers)			No. of days (sunrise to sunset)			Sky cover, tenths (sunrise to sunset)	Possible sunshine
		Station	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min 0 C or lower			Total	Departure from normal	Greatest in 24 hours	25 mm or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy 4-7	Cloudy 8-10		
MISSISSIPPI	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
MERIDIAN	88	1006.8	1017.6	28.8	17.0	22.9	-1.2	34.4	4+	5.6	28+	10	0	17.2	74	92	9	31	10	3	0	0	1.2	35	9.8	35	23	11	7	12	5.5	
MISSOURI																																
COLUMBIA REGIONAL	270	987.5	1019.7	21.9	12.0	17.0	-3.2	33.3	1	4.4	25	3	0	11.7	74	142	31	60	11	5	0	0	0.1	27	13.4	N	11	6	7	15	6.2	67
KANSAS CITY	309	982.1	1018.6	22.9	12.1	17.5	-2.9	36.7	1	3.9	25	3	0	12.8	77	155	48	84	10	7	0	0	0.3	13	14.8	NW	4	11	6	13	5.5	59
ST JOSEPH	247			24.2	10.6	17.4	-2.4	35.6	1	0.0	24	2	1			132	34		6													
ST LOUIS	163	999.0	1019.4	23.8	12.6	18.2	-2.7	34.4	2+	5.0	27+	3	0	14.4	81	63	-10	25	7	3	0	0	0.4	31	11.2	NW	24	8	11	11	5.8	61
SPRINGFIELD	386	973.9	1019.2	23.7	11.1	17.4	-3.3	35.0	3	1.1	26	4	0	12.8	78	289	184	113	9	7	0	0	0.5	13	12.5	N	18	13	3	14	5.2	66
MONTANA																																
BILLINGS	1087	896.0	1019.5	23.3	7.2	15.3	0.3	31.1	15	2.2	12	0	0	-0.6	37	6	-29	5	3	2	0	0	1.5	28	16.1	NW	2	21	5	4	2.7	84
GLASGOW	696	937.0	1019.1	21.4	5.6	13.5	-0.5	30.0	16+	0.0	30	0	1	3.3	55	11	-11	5	4	1	0	0	1.3	36	14.3	33	18	15	9	6	3.9	
GREAT FALLS	1116	893.3	1020.4	22.2	5.9	14.1	0.0	30.0	15	0.0	30+	0	2	2.8	51	19	-11	10	5	0	T	0	2.3	25	14.8	W	16	16	8	6	3.9	86
HAVRE	788	927.2	1019.2	22.1	5.1	13.6	-0.3	31.1	15	-1.1	20	0	2	3.9	58	13	-15	5	5	2	0	0	1.5	28	13.4	SW	16	16	9	5	3.6	82
HELENA	1167	885.2	1021.6	21.1	3.4	12.3	-0.8	27.2	15+	-2.2	30	0	4	2.2	57	12	-13	6	4	0	0	0	1.2	29	13.4	W	17	19	6	5	2.8	83
KALISPELL	904	916.7	1021.7	21.6	3.4	12.5	0.7	27.8	15+	-0.6	27+	0	5	5.0	66	15	-14	9	3	0	0	0	0.1	1	12.5	3	10	20	6	4	2.7	
MILES CITY	801	925.8	1018.6	23.1	6.3	14.7	-0.8	32.8	9	-1.7	20	1	3	2.8	49	11	-19		5	0	0		1.9	33								
MISSOULA	972	909.6	1021.3	23.8	2.9	13.4	0.4	30.0	7	-1.1	21+	0	5	4.4	64	13	-14	8	4	1	0	0	0.4	33	18.3	NW	16	20	7	3	2.3	88
NEBRASKA																																
GRAND ISLAND	561	952.9	1018.8	23.4	8.8	16.1	-1.9	36.7	2	1.1	25	2	0	7.8	61	26	-38	15	7	3	0	0	0.4	22	13.0	1	11	14	8	8	4.4	
LINCOLN	359	976.3	1018.8	23.8	9.2	16.5	-2.2	38.3	1	-1.7	25	3	2	10.0	69	39	-35	28	6	3	0	0	0.3	29	13.4	SE	14+	12	10	8	4.7	65
NORFOLK	471			22.1	8.9	15.6	-1.8	35.0	2	0.0	25	2	1			18	-44	13	4		0	0						11	12	7	4.6	
NORTH PLATTE	846	921.4	1019.0	23.4	5.9	14.7	-2.1	31.7	17+	-3.3	24	0	7	5.6	59	14	-37	8	6	3	0	0	0.4	7	15.2	NE	11	12	9	9	4.8	69
OMAHA	298	983.4	1018.7	24.1	9.9	17.0	-2.1	39.4	1	1.1	25	3	0	10.6	70	55	-28	40	9	6	0	0	0.2	17	12.5	NW	20	11	9	10	5.1	61
SCOTTSBLUFF	1206	883.5	1018.6	24.8	6.0	15.4	-0.8	32.2	16+	-0.6	21+	2	2	2.2	48	7	-23	5	2	1	0	0	1.1	36	13.4	31	19	19	9	2	2.8	
VALENTINE	789			23.4	6.3	14.8	-1.5	33.3	9	-2.2	24	4	5			8	-29	6	4		0	0			18.8	NW	19+	19	6	5	3.2	80
NEVADA																																
ELKO	1539	848.3	1018.1	27.1	2.7	14.9	0.7	31.7	8	-2.2	21	0	10	-2.8	35	[illegible]	-4	4	2	2	0	0	0.1	26	10.3	18	11	22	8	0	1.5	
ELY	1906	813.1	1016.8	25.5	2.8	14.2	0.4	30.0	7	-3.3	21	0	7	-1.1	42	14	-2	10	3	3	0	0	1.2	21	13.0	SW	1	19	7	4	2.6	92
LAS VEGAS	659	937.7	1012.7	35.2	20.1	27.6	0.9	39.4	4	15.6	26	27	0	2.8	24	30	23	23	4	3	0	0	0.7	23	14.3	SW	1	25	5	0	1.8	92
RENO	1342	868.3	1016.1	29.4	6.3	17.9	2.2	33.9	7+	1.7	2	4	0	4.4	48	23	18	23	2	3	0	0	0.3	30	11.6	S	11	23	4	3	2.3	98
WINNEMUCCA	1311	871.3	1016.8	29.1	5.7	17.4	2.3	34.4	6	0.6	30	4	0	-1.7	31	[illegible]	-2	4	3	2	0	0	1.0	4	11.6	NW	17+	20	7	3	2.3	88
NEW HAMPSHIRE																																
CONCORD	104	1006.8	1019.6	20.2	6.6	13.4	-1.9	26.7	21	-2.8	15	0	2	10.0	81	131	53	62	12	2	0	0	0.7	27	8.9	NW	14	4	10	16	7.2	48
MT WASHINGTON OBS	1909			6.7	0.8	3.8	-1.3	13.3	20	-5.0	14+	0	10			319	151	55	21	1	109	51			37.6Y	SW	12	2	7	21	8.1	28
NEW JERSEY																																
ATLANTIC CITY	20	1017.3	1019.8	22.3	11.8	17.1	-2.4	27.2	12+	2.8	14	0	0	13.9	82	131	55	46	16	3	0	0	0.3	25	8.0	20	24+	7	7	16	6.8	53
ATLANTIC CITY	3			21.4	14.9	18.2	-1.9	24.4	6+	7.8	14	0	0			97	30	37	15						10.3	S	24+					
NEWARK	2	1018.6	1019.8	22.1	13.7	17.9	-1.9	27.2	8	7.2	14	0	0	12.8	74	229	141	64	11	5	0	0	0.7	30	10.7	31	3	7	5	18	6.9	
TRENTON U	17			22.3	13.4	17.9	-1.7	26.7	20+	6.7	15+	0	0			230	149	69	13		0	0			11.6	NW	12	9	3	18	6.7	42
NEW MEXICO																																
ALBUQUERQUE	1619	841.9	1016.3	26.1	12.0	19.1	-2.1	35.0	1	5.0	22	2	0	7.2	53	42	23	19	8	6	0	0	0.7	13	20.1	E	30	12	10	8	4.6	66
CLAYTON	1515			23.8	9.8	16.8	-1.6	32.8	1	3.9	25	1	0			43	-2	24	5		0	0						16	1	13	4.4	
ROSWELL	1112	893.3	1015.7	27.1	13.4	20.3	-1.1	35.0	18	6.1	22	4	0	11.7	62	72	35	53	8	3	0	0	0.8	12	10.7	N	11	15	6	9	4.3	
NEW YORK																																
ALBANY	84	1009.1	1019.7	20.8	9.6	15.2	-1.4	27.2	8	0.6	15	0	0	10.6	78	116	37	29	16	2	0	0	1.2	24	11.6	S	12+	5	9	16	6.9	42
BINGHAMTON	485	961.4	1020.4	17.9	9.2	13.6	-2.1	23.9	20+	2.2	14	0	0	10.6	85	214	137	75	17	5	0	0	1.5	22	12.5	W	13	2	11	17	7.6	44
BUFFALO	215	993.2	1019.0	18.9	10.2	14.6	-1.8	26.1	11	4.4	14+	0	0	10.0	76	62	-21	18	12	0	0	0	1.8	23	12.5	S	11	5	8	17	7.3	47
NEW YORK U	40	1016.6	1019.9	21.8	13.9	17.9	-2.3	27.2	8	7.8	14	0	0	12.2	73	237	154	73	11	3	0	0	1.1	5	8.9	E	25					66
NEW YORK KENNEDY	4	1019.3	1019.9	21.2	14.5	17.8	-1.6	24.4	27+	7.2	15	0	0	14.4	82	245	161	83	11	1	0	0	0.4	31	11.6	33	12	10	4	16	6.4	
NEW YORK LA GUARDIA	3	1019.0	1019.9	21.5	14.6	18.1	-2.0	26.7	12	8.9	14	0	0	12.2	70	245	165	82	11	2	0	0	0.5	30	14.3	NE	25	7	6	17	6.8	
ROCHESTER	167	998.6	1018.9	20.0	9.3	14.7	-2.2	28.9	11	2.8	14+	0	0	10.6	79	80	20	35	13	0	0	0	1.7	23	11.6	SW	11	4	10	16	7.5	45
SYRACUSE	125	1004.1	1019.2	18.7	9.2	13.9	-3.2	25.6	11	2.2	15	0	0	11.1	86	224	155	105	15	1	0	0	0.8	25	14.3	W	20	2	10	18	7.6	37
NORTH CAROLINA																																
ASHEVILLE	652	943.4	1019.2	24.0	12.9	18.4	-0.8	33.3	4	6.1	28	2	0	15.0	86	191	101	87	10	[illegible]	0	0	0.3	35	10.3	13	23	10	9	11	5.9	55

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure		Temperature											Average relative humidity	Precipitation							Wind					No of days (sunrise to sunset)			Sky cover, tenths (sunrise to sunset)	Possible sunshine
												No of days							No of days		Snow, Ice pellets				Fastest mile (1.6 kilometers)							
		Station	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min 0 °C or lower	Average dew point		Total	Departure from normal	Greatest in 24 hours	25 mm or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10		
NORTH CAROLINA	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
CAPE HATTERAS R	3	1018.3	1018.9	27.8	21.2	24.6	1.4	31.7	4	17.8	14	0	0	20.6	80	132	-14	36	14	5	0	0	1.0	12	8.9	3	14	4	12	14	7.0	51
CHARLOTTE	224	991.5	1018.5	25.9	17.1	21.6	-0.7	33.3	4	10.0	15+	3	0	17.2	79	165	77	66	13	7	0	0	0.9	6	9.8	W	5	5	10	15	6.8	60
GREENSBORO	273	987.8	1019.2	26.0	16.3	21.2	0.2	36.7	4	7.8	15+	4	0	17.2	83	185	95	73	11	5	0	0	0.8	5	13.0	NW	6	3	12	15	7.4	47
RALEIGH	132	1003.1	1018.7	26.8	16.7	21.7	0.3	33.9	4	7.2	15	3	0	17.2	80	147	51	37	12	5	0	0	0.7	6	9.4	29	6	4	11	15	7.0	51
WILMINGTON	9	1016.9	1018.4	29.6	20.4	25.0	1.3	36.7	4	12.2	15	6	0	21.1	83	154	11	67	15	8	0	0	1.0	8	8.0	S	23+	2	5	23	8.1	54
NORTH DAKOTA																																
BISMARCK	502	959.0	1018.0	20.8	4.7	12.8	-1.4	31.1	16	-0.6	13	0	2	4.4	60	14	-19	8	7	0	0	0	1.8	31	19.2	W	16	12	10	8	4.6	71
FARGO	273	984.4	1017.5	19.0	6.9	13.0	-1.4	28.3	10	1.1	24+	0	0	6.7	69	31	-15	22	6	1	0	0	0.9	26	14.3	W	18	10	9	11	5.5	57
WILLISTON	579	949.9	1018.7	19.7	5.8	12.8	-0.9	31.1	16	-1.1	12	0	1	5.0	64	45	14	18	6	1	0	0	2.1	31	18.8	NW	18	9	11	10	5.4	69
OHIO																																
AKRON	368	974.9	1019.6	19.4	10.4	14.9	-2.7	24.4	3+	2.8	14+	0	0	11.7	82	134	68	39	11	2	0	0	1.1	23	9.4	4	24	6	7	17	7.1	
CINCINNATI ABBE OB	232			23.6	13.1	16.4	-1.6	34.4	3	6.1	14+	4	0			98	26	51	9						8.9	SW	5					45
CLEVELAND	237	[illegible]	1019.4	19.1	10.4	14.8	-2.9	23.9	15	2.8	14	0	0	10.6	76	85	14	23	13	2	0	0	1.3	22	11.6	NE	24+	6	10	14	6.7	59
COLUMBUS	247	989.5	1019.4	21.8	12.7	17.1	-1.4	30.6	5	3.3	14	0	0	12.2	77	139	77	44	12	3	0	0	0.3	21	12.5	S	5	6	8	16	6.6	57
DAYTON	302	983.1	1019.3	21.9	11.4	16.7	-2.4	29.4	10+	3.9	14+	0	0	11.7	75	84	26	43	11	3	0	0	0.3	26	15.2	SW	5	7	10	13	6.4	42
MANSFIELD	398			19.3	10.3	14.8	-3.7	25.6	3	2.2	14	0	0			126	54	28	13	2	0	0	1.2	22	10.3	2	24+	6	7	17	7.1	
TOLEDO	204	993.9	1019.1	19.6	8.4	14.1	-3.6	26.7	2	-0.6	14	0	1	10.6	81	69	8	29	12	0	0	0	0.9	28	13.0	NE	24	8	6	16	6.6	43
YOUNGSTOWN	359	976.6	1019.5	19.7	9.9	14.8	-2.2	24.4	2	3.9	29+	0	0	11.1	79	129	61	31	14	2	0	0	1.0	22	8.9	34	12	4	8	18	7.3	
OKLAHOMA																																
OKLAHOMA CITY	392	972.2	1018.3	26.7	13.6	20.2	-2.6	35.0	3+	5.6	26	7	0	12.8	67	49	-41	20	8	3	0	0	1.0	11	14.8	[illegible]	11	14	11	5	4.2	67
TULSA	198	994.2	1015.3	27.1	14.2	20.7	-2.3	37.2	3	5.6	26	10	0	13.9	71	85	-19	43	9	6	0	0	0.8	14	11.6	SE	17	12	10	8	4.9	52
OREGON																																
ASTORIA	2	1018.6	1019.2	21.1	9.1	15.1	1.4	30.6	5	5.0	26	0	0	10.0	75	1	-71	1	1	0	0	0	0.8	31	9.8	22	6	15	8	7	4.1	
BURNS	1265			26.4	6.7	16.6	2.0	32.2	6	2.2	19	1	0			2	-10	[illegible]	2		0	0			15.6Y		15	23	7	0	1.5	
EUGENE	109	1004.1	1017.5	28.2	9.7	18.9	2.3	35.6	12+	6.1	26	5	0	11.1	68	T	-32	T	0	1	0	0	1.4	34	9.4	23	27+	18	9	3	3.1	
MEDFORD	394	969.2	1016.3	32.1	8.9	20.5	2.5	39.4	5	4.4	2+	15	0	7.2	52	17	2	17	1	2	0	0	0.5	27	8.0	24	13	23	3	4	2.0	
PENDLETON	452	965.5	1018.7	28.5	10.3	19.4	1.7	34.4	4	6.1	18	7	0	3.3	38	0	-16	0	0	0	0	0	0.2	28	10.3	29	16	26	2	2	1.3	
PORTLAND	6	1016.9	[illegible]	26.5	10.9	18.7	1.9	33.3	12+	5.6	26	4	0	9.4	62	T	-41	T	0	0	0	0	1.4	35	15.6	SE	[illegible]	19	5	5	2.8	61
SALEM	60	1011.2	1017.7	27.6	7.4	17.5	0.9	34.4	12+	3.3	18	6	0	8.9	65	[illegible]	-37	[illegible]	0	[illegible]	0	0	1.3	35	7.6	3	3	[illegible]	9	[illegible]	2.6	
SEXTON SUMMIT R	1169	886.2	1015.2	25.3	12.8	19.1	3.7	33.3	5	5.0	2	1	0			18	-8	11	2		0	0			11.2		2	26	1	3	1.8	
PACIFIC AREA																																
GUAM TAGUAC R	110			30.0	22.0	26.0	-0.2	31.7	9	19.4	26+	0	0			228	-133	44	26		0	0			[illegible]	SE	17	[illegible]	[illegible]	22	8.6	[illegible]
JOHNSTON	2	1013.5	1014.2	28.8	24.8	26.8	-0.4	29.4	22+	21.7	21	0	0	21.7	73	18	-38	9	9	0	0	0	6.6	9	14.3	E	16	6	16	8	5.5	67
KOROR R	29	1005.4		31.2	23.9	27.6	0.0	32.8	23+	22.2	28+	6	0			438	[illegible]	65	23	3	0	0	1.3	14	[illegible]	NE	26	[illegible]	[illegible]	27	9.4	[illegible]
KWAJALEIN	2			29.7	24.6	27.2	[illegible]	30.6	25+	22.8	23+	0	0			295	19	47	[illegible]	3	0	0			[illegible]	13	27	[illegible]	5	25	9.0	
MAJURO	3	1009.8		29.3	24.1	26.7	-0.8	30.6	25	23.3	30+	0	0			419	54	49	28		0	0	3.3	7	13.4	E	29+	[illegible]	6	24	8.7	[illegible]
PAGO PAGO	4	1013.5	1013.7	29.2	23.7	26.4	[illegible]	30.6	[illegible]	20.0	17	0	0	22.2	78	141	[illegible]	53	21	[illegible]	0	0	5.2	7	14.3	E	4	2	19	9	6.3	75
PONAPE R	37			30.9	22.9	26.9	-0.1	32.2	23+	20.6	6	8	0			320	-105	52	28	3	0	0			7.6	SE	15	[illegible]	5	24	8.7	[illegible]
TRUK MOEN ISLAND	2	1009.1		30.5	24.0	27.3	0.1	31.7	14+	22.2	7	0	0			305	-27	57	25	[illegible]	0	0	2.1	11	9.4	SE	16	[illegible]	[illegible]	29	9.7	[illegible]
WAKE	3	1013.2	1013.5	30.7	24.3	27.5	-0.6	32.2	20+	20.6	4	4	0	22.8	74	146	1	[illegible]	22	1	0	0	4.8	11	15.6	E	21	4	9	17	7.3	[illegible]
YAP R	13	1007.1		30.2	22.8	26.5	-0.9	31.7	20+	21.1	27+	0	0			286	-47	44	24	[illegible]	0	0	[illegible]	13	[illegible]	SE	25	[illegible]	7	23	8.8	65
PENNSYLVANIA																																
ALLENTOWN	118	1006.1	[illegible]	21.1	11.4	16.3	-1.9	27.2	[illegible]	3.3	15	0	0	11.1	74	193	102	64	13	3	0	0	[illegible]	[illegible]	[illegible]	35	16	[illegible]	4	15	[illegible]	
ERIE	223	992.6	1019.4	18.7	10.7	14.7	-1.6	[illegible]	[illegible]	5.0	29+	0	0	11.1	82	64	-25	18	15	[illegible]	0	0	1.7	21	[illegible]	5	24	5	5	16	6.9	
HARRISBURG	103	[illegible]	[illegible]	22.1	12.7	17.4	-2.1	27.2	5+	5.6	15	0	0	13.3	81	287	313	183	16	5	0	0	[illegible]	3	[illegible]	[illegible]	16	[illegible]	7	16	6.5	[illegible]
PHILADELPHIA	9	1018.5	[illegible]	23.9	14.4	19.2	-0.8	29.4	8	6.7	14	0	0	13.3	72	183	106	[illegible]	13	3	0	0	[illegible]	3	11.2	[illegible]	12	[illegible]	5	17	6.4	59
PITTSBURGH	347	[illegible]	1019.4	19.5	10.3	14.9	-2.6	[illegible]	8	2.2	14	0	0	9.9	[illegible]	129	65	57	14	2	0	0	[illegible]	26	12.5	35	5	6	7	15	5.8	48
SCRANTON	283	985.8	1019.4	20.1	11.3	15.5	-1.7	26.1	[illegible]	3.3	15+	0	0	11.1	77	155	83	57	15	3	0	0	[illegible]	[illegible]	11.5	NE	25	6	6	18	7.2	41
WILLIAMSPORT	160	[illegible]	[illegible]	20.2	10.4	15.3	-2.5	25.6	[illegible]	1.7	14	0	0	12.2	84	255	178	117	16	3	0	0	[illegible]	29	[illegible]	34	12	5	5	17	7.1	
RHODE ISLAND																																
BLOCK ISLAND	34			19.9	14.7	17.2	-0.5	22.8	24+	9.4	15	0	0			123	52	70	[illegible]		0	0										
PROVIDENCE	18	1017.3	[illegible]	20.9	11.3	16.1	-1.3	25.6	21+	3.3	15	0	0	11.7	75	156	73	56	13	2	0	0	[illegible]	34	11.6	29	21	6	6	16	6.7	[illegible]
SOUTH CAROLINA																																
CHARLESTON	12	[illegible]	[illegible]	29.2	20.4	24.7	[illegible]	33.3	5+	[illegible]	27+	7	0	[illegible]	79	131		24	[illegible]	8	0	0	[illegible]	4	[illegible]	16	23	5	6	21	7.5	[illegible]

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure		Temperature										Average dew point	Average relative humidity	Precipitation							Wind					No of days (sunrise to sunset)			Sky cover, tenths (sunrise to sunset)	Possible sunshine
												No of days							No of days		Snow, Ice pellets				Fastest mile (1.6 kilometers)							
		Station O	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min 0 C or lower			Total	Departure from normal	Greatest in 24 hours	25 mm or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10		
SOUTH CAROLINA	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m s		m s							%
CHARLESTON J	3			28.6	21.8	25.2	0.4	34.4	5	17.2	15	4	0					15				0										
COLUMBIA	65	1009.8	1017.8	29.6	18.8	24.1	0.4	36.1	5+	11.1	27	11	0	18.9	77	84	-25	42	12	9	0	0	0.8	8	10.3	17	23+	4	7	19	7.2	59
GRNVLLE-SPRTNBRG	292	984.1	1018.2	26.1	16.1	21.1	-0.9	35.6	4	8.9	15	4	0	16.7	81	296	200	72	12	7	0	0	0.8	4	9.4	SW	6	6	9	13	6.2	47
SOUTH DAKOTA																																
ABERDEEN	393	971.2	1017.9	22.1	7.8	14.9	-0.2	33.3	10	0.0	13	1	0	7.8	65	44	1	27	5	2	0	0	1.2	30	13.4	36	10	15	7	8	4.4	
HURON	390	971.2	1017.9	22.0	6.8	14.4	-1.6	33.9	10+	-1.1	30	2	2	7.8	67	21	-24	6	4	3	0	0	0.7	27	23.2	NW	17	18	3	9	3.8	75
RAPID CITY	964	908.9	1019.2	23.3	6.1	14.7	-1.1	31.7	6	0.0	21	0	1	1.7	45	1	-30	1	2	0	0	0	2.6	34	21.9	NW	19	19	6	5	3.0	91
SIOUX FALLS	432	967.5	1018.8	20.7	7.1	13.9	-2.2	33.3	2	-1.1	25	2	2	8.3	71	34	-38	10	6	3	0	0	0.8	25	11.2	28	19	14	8	8	4.8	
TENNESSEE																																
BRISTOL	459	965.1	1018.8	25.4	14.3	19.9	-0.4	35.6	5	5.6	14	3	0	15.0	78	128	54	49	9	2	0	0	0.4	2	11.6	30	12	6	10	12	5.8	
CHATTANOOGA	203	993.6	1017.9	24.9	15.4	20.2	-1.9	34.4	5+	7.8	27	3	0	16.7	83	262	168	96	10	1	0	0	0.4	3	14.3	NE	23	6	9	15	6.3	47
KNOXVILLE	299	964.1	1018.7	25.8	15.2	20.5	-1.5	35.6	5+	8.9	29+	4	0	15.6	78	83	13	36	11	1	0	0	0.8	34	9.8	22	23	8	7	15	6.3	58
MEMPHIS	79	1008.1	1018.4	26.9	16.3	21.6	-1.5	36.7	3+	7.2	27	7	0	15.0	69	67	-10	34	9	6	0	0	1.1	3	12.5	36	24	10	7	13	5.5	61
NASHVILLE	180	996.6	1018.2	24.6	15.3	19.9	-2.3	34.4	3	6.1	28	4	0	16.1	81	138	59	56	13	4	0	0	0.4	33	10.3	28	19	9	3	18	6.5	49
OAK RIDGE R	276			24.7	13.1	18.9	-2.3	35.6	3	6.7	26	4	0			147	62	50	10		0	0			14.8Y		23	6	8	16	6.7	
TEXAS																																
ABILENE	544	955.0	1016.9	28.1	15.1	21.6	-2.9	35.6	18	4.4	25	9	0	12.8	63	58	0	24	6	1	0	0	1.2	15	13.0	S	16+	17	3	10	4.2	71
AMARILLO	1098	894.3	1016.5	25.9	11.4	18.8	-2.2	33.3	17+	3.9	25	5	0	7.2	52	19	-30	14	5	1	0	0	1.5	17	13.4	1	27+	14	6	8	4.0	69
AUSTIN	182	994.9	1016.6	30.0	18.6	24.3	-1.7	35.0	18+	11.1	26	11	0	17.2	69	92	-2	51	9	4	0	0	0.8	7	13.4	N	21	14	11	5	4.2	72
BROWNSVILLE	6	1014.6	1015.2	30.4	21.0	25.7	-1.8	32.8	20+	13.3	24	8	0	21.1	78	121	-12	42	9	4	0	0	1.3	8	10.7	NW	22	12	10	8	5.0	71
CORPUS CHRISTI	12	1014.2	1015.7	31.0	21.2	26.1	-1.1	33.3	18	12.8	24	10	0	21.1	78	170	46	76	10	8	0	0	2.0	7	11.2	NW	22	14	7	9	4.7	71
DALLAS - FORT WORTH	168	996.3	1017.2	30.3	18.1	24.2	-1.2	37.8	18	10.0	26+	11	0	15.0	59	22	-58	20	4	1	0	0	0.6	13	9.4	36	23+	16	9	5	3.9	
DEL RIO	313	979.7	1015.3	31.1	18.1	24.6	-2.2	37.2	18	10.6	20	17	0	16.1	65	31	-46	18	10	2	0	0	2.2	10	9.4	30	12	11	10	9	4.7	
EL PASO	1194	884.2	1014.0	30.6	14.1	22.3	-1.1	36.1	9+	5.0	23	14	0	10.0	51	55	26	51	7	4	0	0	1.1	9	10.7	7	21	16	7	7	3.8	60
GALVESTON	2			27.8	22.6	25.2	-1.4	33.3	3	17.2	25	4	0			117	-25	57	11		0	0			11.6	NE	22					52
HOUSTON INTERCON	29	1012.9	1016.7	30.6	17.0	23.8	-2.4	35.6	3	8.9	24	10	0	17.8	76	20	-98	6	6	5	0	0	1.2	6	13.0	13	3	11	9	10	4.7	67
LUBBOCK	992	906.9	1016.8	26.9	12.5	19.7	-1.9	34.4	17	5.6	25	5	0	11.1	63	66	11	35	6	3	0	0	1.1	10	14.3	36	11	15	9	6	3.8	72
MIDLAND	868	918.7	1015.8	28.2	14.7	21.4	-2.7	35.0	18	8.3	26+	9	0	12.2	62	87	48	56	5	3	0	0	1.7	11	13.9	6	11	15	6	9	4.2	
PORT ARTHUR	5	1016.3		29.9	18.8	24.4	-1.7	35.0	2	11.1	24	7	0	19.4	81	71	-65	35	6	5	0	0	1.6	6	12.1	NE	22	12	6	12	5.1	63
SAN ANGELO	580	950.6	1016.4	28.4	15.6	22.0	-2.9	35.6	18	6.7	26+	6	0	13.3	64	57	-12	24	7	2	0	0	1.4	16	13.0	4	21	13	9	8	4.4	
SAN ANTONIO	240	988.8	1016.4	30.1	18.8	24.4	-1.8	33.9	18+	8.3	26	7	0	16.1	66	13	-81	6	5	2	0	0	1.3	8	13.0	N	21	11	9	10	5.0	65
VICTORIA	32	1012.2	1016.2	31.2	20.0	25.6	-1.1	35.0	3	10.6	20	12	0	20.0	78	49	-68	15	9	9	0	0	1.7	7	17.4Y	N	22	9	10	11	5.2	
WACO	153	999.0	1016.8	31.7	18.5	25.1	-0.9	38.3	3	8.9	26+	16	0	17.2	67	58	-23	49	7	5	0	0	1.1	13	12.1	36	15	13	11	6	4.9	
WICHITA FALLS	303	981.4	1017.5	28.4	14.8	21.7	-3.3	36.7	11	7.2	25	12	0	15.0	70	93	17	60	6	2	0	0	0.8	11	14.3	1	11	16	8	6	3.8	
UTAH																																
MILFORD	1533	849.3	1016.6	27.7	6.4	17.1	-0.2	32.2	6	-0.6	22+	1	2			1	-15	1	1		0	0			18.8	SW	1	23	3	4	2.5	62
SALT LAKE CITY	1286	874.7	1017.1	27.1	9.9	18.6	0.3	35.0	1	3.9	21	2	0	2.8	40	2	-15	1	2	4	0	0	1.1	15	14.3	S	1	23	4	3	2.2	90
WENDOVER	1291	873.7	1017.5	26.4	12.4	19.4	0.4	31.1	7	5.6	22	0	0	-1.1	28	2	-5	2	1		0	0										
VERMONT																																
BURLINGTON	101	1006.4	1019.0	19.2	9.7	14.4	-0.7	25.0	11	1.1	15	0	0	10.6	78	105	27	27	18	3	0	0	1.4	19	11.0	S	12	2	8	20	7.8	39
VIRGINIA																																
LYNCHBURG	279	986.1		23.8	14.2	19.0	-1.1	32.8	4	6.1	14	1	0			188	105	47	14		0	0			8.9	NE	23	10	5	15	6.2	51
NORFOLK	7	1018.0	1019.0	26.1	18.7	22.4	0.3	32.8	6	11.7	29	1	0	18.3	80	122	16	52	14	8	0	0	0.8	9	11.6	36	6	4	10	16	6.6	
RICHMOND	50	1012.9	1019.3	25.9	15.5	20.7	-0.4	31.7	4	6.7	15	0	0	17.2	83	279	188	64	13	5	0	0	0.4	36	7.6	NE	12	7	4	19	6.9	43
ROANOKE	350	977.7	1019.5	24.3	14.1	19.2	-0.8	33.3	3	4.4	14	1	0	13.9	75	164	77	70	13	6	0	0	0.3	2	11.2	31	20	10	7	13	6.1	
WALLOPS ISLAND	3			24.4	17.8	21.2	0.1	28.9	12	10.6	15	0	0			173	91	83	14		0	0			17.0	NNE	2					
WASHINGTON																																
OLYMPIA	59	1011.9	1019.0	23.0	5.7	14.3	-0.4	30.0	22	1.1	19	0	0	10.0	77	T	-54	T	0	0	0	0	0.4	5	7.2	19	28+	14	11	5	3.9	
QUILLAYUTE	55	1012.2	1019.8	21.2	7.3	14.3	0.5	29.4	12	3.9	27+	0	0	9.4	77	9	-122	6	5	0	0	0	0.1	35	6.7	NE	11	14	7	9	4.4	62
SEATTLE U	6			22.0	11.6	16.8	0.9	28.3	21	8.9	26	0	0			1	-44	1	1		0	0			8.0Y		29					
SEATTLE-TACOMA	122	1003.4	1019.7	22.9	11.4	17.2	1.9	30.0	22+	8.3	26	0	0	11.1	71	T	-51	T	0	0	0	0	1.7	36	8.0	NW	18+	16	6	6	4.1	60
SPOKANE	718	935.7	1019.0	24.6	7.6	16.1	0.8	31.1	15	2.8	20	0	0	3.9	48	1	-20	1	1	0	0	0	0.7	9	8.4	W	1	25	4	1	1.8	89
STAMPEDE PASS R	1206	884.5		16.9	7.6	12.3	1.6	25.0	6	2.8	2	0	0			9	-108	7	4		0	0										
WALLA WALLA U	289			27.3	11.1	19.2	0.5	34.4	6	6.7	19+	4	0			0	-22	0	0		0	0			8.0	SW	16	27	1	2	1.4	94
YAKIMA	321	980.7	1019.0	27.3	6.1	16.7	0.4	32.2	7	1.7	20	1	0	5.6	55	T	-8	T	0	0	0	0	2.3	30	12.5	31	16	25	4	1	1.5	

CLIMATOLOGICAL DATA
METRIC UNITS

State and Station	Elevation (ground)	Pressure		Temperature											Average relative humidity	Precipitation							Wind					No. of days (sunrise to sunset)			Sky cover, tenths (sunrise to sunset)	Possible sunshine
												No. of days							No. of days		Snow, Ice pellets				Fastest mile (1.6 kilometers)							
		Station ○	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min. 0 C or lower	Average dew point		Total	Departure from normal	Greatest in 24 hours	25 mm or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear 0-3	Partly cloudy, 4-7	Cloudy, 8-10		
	m	mb	mb	C	C	C	C	°C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
WEST INDIES																																
SAN JUAN P.R.	4	1012.2	1014.6	30.5	25.2	27.8	0.6	32.8	30	23.3	16	1	0	21.7	79	234	82	87	18	9	0	0	2.5	9	13.9	S	2	1	17	14	6.9	49
WEST VIRGINIA																																
BECKLEY	763	931.9	1019.5	21.2	11.1	16.2	-0.9	30.6	5	0.6	14	0	0	12.3	83	117	31	49	10	2	0	0	1.0	16	10.3	14	18+	5	10	15	7.1	
CHARLESTON	286	985.4	1019.5	22.9	12.5	17.7	-2.0	34.4	5	5.0	14	1	0	13.3	81	127	52	36	11	2	0	0	0.0	26	8.3	30	3	2	12	16	7.2	
ELKINS	594	949.5		21.7	9.8	15.7	-0.7	30.0	5	1.1	14	0	0			94	13	34	12		0	0						3	11	16	7.4	
HUNTINGTON	252	989.2	1019.0	23.3	13.4	18.4	-1.4	35.6	5	6.1	29+	1	0	13.9	80	123	50	46	12	3	0	0	0.1	6	7.5	22	15+	2	9	19	7.7	
PARKERSBURG	187			21.8	12.2	17.0	-2.7	30.6	5	4.4	14	0	0			138	67	47	13		0	0			11.2	[illegible]	12					
WISCONSIN																																
GREEN BAY	209	992.6	1018.4	18.3	6.8	12.6	-2.4	25.6	3+	0.6	26	0	0	8.3	77	81	-2	33	10	6	0	0	1.5	26	11.2	SE	10	5	7	17	6.6	47
LA CROSSE	198	994.9	1019.7	19.9	8.3	14.1	-2.4	29.4	10	2.2	13	0	0	10.0	79	33	-53		7	3	0		0.7	24								
MADISON	262	987.5	1018.9	20.8	7.5	14.2	-1.2	29.4	10	-2.2	26	0	2	8.3	72	21	-64	12	7	1	0	0	1.1	26	9.8	NW	23+	9	9	12	5.6	54
MILWAUKEE	205	993.9	1019.0	19.3	10.2	14.7	-1.4	27.2	10+	3.9	13	0	0	10.0	76	28	-51	11	7	0	0	0	1.3	26	12.1	SW	30	5	10	14	6.4	45
WYOMING																																
CASPER	1627	842.2	1019.0	23.6	3.8	13.7	-1.1	32.2	1	-3.3	20	1	2	-1.7	41	3	-19	2	4	0	T	T	1.5	27	13.4	22	17	22	6	2	2.5	
CHEYENNE	1867	816.5	1018.2	21.4	5.2	13.3	-1.2	29.4	6	-1.1	20	0	1	-1.7	42	13	-13	5	6	1	15	1	1.9	32	14.3	[illegible]	17	14	10	6	3.9	74
LANDER	1696	834.1	1018.9	22.7	6.7	14.4	-0.2	30.6	1	-0.6	20	0	1	-1.7	37	10	-17	6	5	0	0	0	0.7	24	21.	SW	1	20	7	3	2.7	74
SHERIDAN	1209	883.2	1019.8	23.4	4.1	13.8	-0.6	31.1	9	-1.1	12	0	5	0.6	44	8	-28	4	4	1	0	0	2.0	32	15.6	NW	2	21	3	6	2.9	67

HEATING DEGREE DAYS

(Base 65°F.)

SEPTEMBER 1975

State and Station	Current season		Normals
	This month	Period July through this month	July through this month
ALABAMA			
BIRMINGHAM	49	49	6
HUNTSVILLE	65	65	11
MOBILE	9	9	0
MONTGOMERY	19	19	0
ALASKA			
ANCHORAGE	463	907	1009
ANNETTE	328	875	772
BARROW	1226	3007	2705
BARTER ISLAND	1157	2837	2584
BETHEL	658	1237	1313
BETTLES	790	1261	1387
BIG DELTA	577	1071	1145
COLD BAY	553	1376	1418
FAIRBANKS	570	873	1070
GULKANA	555	1163	1262
HOMER	504	1258	1325
JUNEAU	402	1020	1094
KING SALMON	526	1184	1204
KODIAK	507	1327	1101
KOTZEBUE	834	1700	1535
MC GRATH	668	1175	1212
NOME	818	1708	1639
ST. PAUL ISLAND	670	1862	1759
SUMMIT	745	1629	1664
TALKEETNA	535	1053	1109
UNALAKLEET	680	1238	1392
VALDEZ	548	1157	1321
YAKUTAT	455	1209	1233
ARIZONA			
FLAGSTAFF	207	296	376
PHOENIX	0	0	0
TUCSON	0	0	0
WINSLOW	28	28	19
YUMA	0	0	0
ARKANSAS			
FORT SMITH	62	62	0
LITTLE ROCK	48	48	5
CALIFORNIA			
BAKERSFIELD	0	0	0
BISHOP	0	1	49
BLUE CANYON	16	186	193
EUREKA U	286	820	770
FRESNO	0	0	0
LONG BEACH	0	0	7
LOS ANGELES	0	0	57
LOS ANGELES U	0	0	5
MT SHASTA R	35	174	246
OAKLAND	97	254	213
RED BLUFF	0	0	0
SACRAMENTO	0	0	5
SANDBERG R	0	25	50
SAN DIEGO	0	0	22
SAN FRANCISCO	120	304	243
SAN FRANCISCO U	177	532	481
SANTA MARIA	96	262	308
STOCKTON	0	1	0
COLORADO			
ALAMOSA	319	447	445
COLORADO SPRINGS	200	210	177
DENVER	195	199	120
GRAND JUNCTION	35	35	60
PUEBLO	119	119	55
CONNECTICUT			
BRIDGEPORT	59	59	42
HARTFORD	121	132	118
DELAWARE			
WILMINGTON	56	56	32
DIST.OF COLUMBIA			
WASHINGTON DULLES	83	83	43
WASHINGTON NATIONAL	20	20	14
FLORIDA			
APPALACHICOLA U	3	3	0
DAYTONA BEACH	0	0	0
FORT MYERS	0	0	0
JACKSONVILLE	0	0	0
KEY WEST	0	0	0
LAKELAND U	0	0	0
MIAMI	0	0	0
ORLANDO	0	0	0
PENSACOLA	12	12	0
TALLAHASSEE	5	5	0
TAMPA	0	0	0
WEST PALM BEACH	0	[illegible]	0
GEORGIA			
ATHENS	14	14	6
ATLANTA	28	28	8
AUGUSTA	2	2	0
COLUMBUS	20	20	0
MACON	10	10	0
ROME	32	32	11
SAVANNAH	0	[illegible]	0
IDAHO			
BOISE	74	101	139
LEWISTON	48	66	141
POCATELLO	168	219	212
ILLINOIS			
CAIRO U	68	68	11
CHICAGO O HARE	147	148	115
CHICAGO MIDWAY	155	157	65
MOLINE	162	171	90
PEORIA	171	185	78
ROCKFORD	225	237	121
SPRINGFIELD	125	135	56
INDIANA			
EVANSVILLE	75	75	34
FORT WAYNE	173	185	102
INDIANAPOLIS	137	145	68
SOUTH BEND	175	189	128
IOWA			
BURLINGTON	151	157	78
DES MOINES	148	148	107
DUBUQUE	245	249	172
SIOUX CITY	204	205	123
WATERLOO	262	284	170
KANSAS			
CONCORDIA	135	135	73
DODGE CITY	92	92	41
GOODLAND	129	133	108
TOPEKA	137	139	55
WICHITA	98	98	32
KENTUCKY			
COVINGTON	142	147	44
LEXINGTON	128	128	40
LOUISVILLE	73	73	35
LOUISIANA			
ALEXANDRIA	12	12	0
BATON ROUGE	6	6	0
LAKE CHARLES	0	0	0
NEW ORLEANS	6	6	0
SHREVEPORT	4	4	0
MAINE			
CARIBOU	310	422	533
PORTLAND	230	302	282
MARYLAND			
BALTIMORE	50	50	27
MASSACHUSETTS			
BLUE HILL OBS R	156	190	131
BOSTON	70	78	84
WORCHESTER	223	272	178
MICHIGAN			
ALPENA	334	449	450
DETROIT			
DETROIT METRO	178	182	116
FLINT	225	235	197
GRAND RAPIDS	242	263	149
HOUGHTON LAKE	333	445	401
LANSING	266	290	169
MARQUETTE U	317	411	374
MUSKEGON	249	270	189
SAULT STE MARIE	373	507	512
MINNESOTA			
DULUTH	418	593	489
INTERNATIONAL FALLS	426	585	542
MINNEAPOLIS	231	253	205
ROCHESTER	273	299	241
ST CLOUD	312	358	283
MISSISSIPPI			
JACKSON	26	26	0
MERIDIAN	22	22	0
MISSOURI			
COLUMBIA REGIONAL	149	151	42
KANSAS CITY	142	142	42
ST JOSEPH	134	134	54
ST LOUIS	110	112	35
SPRINGFIELD	152	152	41
MONTANA			
BILLINGS	185	217	246
GLASGOW	260	333	308
GREAT FALLS	235	307	320
HAVRE	257	313	322
HELENA	322	455	394
KALISPELL	306	454	558
MILES CITY	211	231	242
MISSOULA	263	388	411
NEBRASKA			
GRAND ISLAND	178	178	113
LINCOLN	168	168	83
NORFORK	207	209	140
NORTH PLATTE	228	234	156
OMAHA	141	141	77
SCOTTSBLUFF	193	204	168
VALENTINE	231	241	172
NEVADA			
ELKO	180	265	335
ELY	217	317	350
LAS VEGAS	0	0	0
RENO	51	142	235
WINNEMUCCA	69	123	247
NEW HAMPSHIRE			
CONCORD	260	348	243
MT WASHINGTON OBS	780	1708	1774
NEW JERSEY			
ATLANTIC CITY	108	110	35
ATLANTIC CITY U	49	49	23
NEWARK	59	60	34
TRENTON U	67	71	39
NEW MEXICO			
ALBUQUERQUE	47	47	7
CLAYTON	158	158	73
ROSWELL	48	48	17
NEW YORK			
ALBANY	173	192	166
BINGHAMTON	250	289	233
BUFFALO	197	215	183
NEW YORK U	62	65	29
NEW YORK KENNEDY	60	63	42
NEW YORK LA GUARDIA	56	60	30
ROCHESTER	194	212	161
SYRACUSE	230	265	149
NORTH CAROLINA			
ASHEVILLE	77	77	50
CAPE HATTERAS R	0	0	0
CHARLOTTE	13	13	10
GREENSBORO	31	31	24
RALEIGH	17	17	12
WILMINGTON	0	0	0
NORTH DAKOTA			
BISMARCK	295	343	305
FARGO	284	320	280
WILLISTON	299	360	331
OHIO			
AKRON	183	186	126
CINCINNATI ABBE OB	92	92	37
CLEVELAND	187	196	121
COLUMBUS	110	110	84
DAYTON U	130	132	70
MANSFIELD	188	194	89
TOLEDO	227	240	122
YOUNGSTOWN	189	205	149
OKLAHOMA			
OKLAHOMA CITY	64	64	12
TULSA	57	57	10
OREGON			
ASTORIA	183	471	515
BURNS U	123	269	324
EUGENE	40	114	211
MEDFORD	14	50	121
PENDLETON	43	55	116
PORTLAND	48	113	223
SALEM	79	200	216
SEXTON SUMMIT R	71	346	391
PENNSYLVANIA			
ALLENTOWN	122	129	91
ERIE	197	214	208
HARRISBURG	87	87	51
PHILADELPHIA	45	45	38
PITTSBURGH	192	192	121
PITTSBURGH U	121	121	64
SCRANTON	158	166	141
WILLIAMSPORT	168	178	110
RHODE ISLAND			
BLOCK ISLAND	76	82	99
PROVIDENCE	132	145	103
SOUTH CAROLINA			
CHARLESTON	0	0	0
CHARLESTON U	0	0	0
COLUMBIA	0	0	0
GRNVLLE-SPRTNBRG	24	24	9
SOUTH DAKOTA			
ABERDEEN	208	216	235
HURON	236	243	191
RAPID CITY	206	225	221
SIOUX FALLS	271	279	193
TENNESSEE			
BRISTOL	46	46	37
CHATTANOOGA	53	53	9
KNOXVILLE	42	42	10
MEMPHIS	40	40	7
NASHVILLE	68	68	10
OAK RIDGE	79	79	20
TEXAS			
ABILENE	55	55	0
AMARILLO	104	104	20
AUSTIN	1	1	0
BROWNSVILLE	0	0	0
CORPUS CHRISTI	0	0	0
DALLAS FT WORTH	4	4	0
DEL RIO	0	0	0
EL PASO	20	20	[illegible]
GALVESTON	0	0	0
HOUSTON INTERCON	0	0	0
LUBBOCK	76	76	8
MIDLAND	40	40	0
PORT ARTHUR	0	0	0
SAN ANGELO	32	32	0
SAN ANTONIO	1	1	0
VICTORIA	0	0	0
WACO	2	2	0
WICHITA FALLS	52	52	0
UTAH			
MILFORD	100	107	127
SALT LAKE CITY	62	63	110
WENDOVER	33	33	86
VERMONT			
BURLINGTON	208	253	260
VIRGINIA			
LYNCHBURG	60	60	33
NORFORK	6	6	9
RICHMOND	27	27	21
ROANOKE	59	59	32
WALLOPS ISLAND	13	13	15
WASHINGTON			
OLYMPIA	210	421	390
QUILLAYUTE	214	622	635
SEATTLE	93	202	269
SEATTLE-TACOMA	93	189	332
SPOKANE	136	233	264
STAMPEDE PASS R	323	1039	988
WALLA WALLA U	47	66	85
YAKIMA	100	137	204
WEST VIRGINIA			
BECKLEY	146	148	145
CHARLESTON	106	106	46
ELKINS	160	169	195
HUNTINGTON	91	91	46
PARKERSBURG U	118	118	46
WISCONSIN			
GREEN BAY	307	363	267
LA CROSSE	236	258	157
MADISON	236	265	226
MILWAUKEE	203	224	191
WYOMING			
CASPER	247	266	259
CHEYENNE	274	324	278
LANDER	219	257	248
SHERIDAN	246	290	304

COOLING DEGREE DAYS

(Base 65° F.)

SEPTEMBER 1975

State and station	Current season		
	This month	Period January through this month	Normals January through this month
ALABAMA			
BIRMINGHAM	211	1761	1844
HUNTSVILLE	170	1498	1736
MOBILE	325	2453	2391
MONTGOMERY	311	2106	2114
ALASKA			
ANCHORAGE	0	2	0
ANNETTE	0	8	14
BARROW	0	0	0
BARTER ISLAND	0	[illegible]	0
BETHEL	0	1	0
BETTLES	0	59	17
BIG DELTA	0	21	34
COLD BAY	[illegible]	0	0
FAIRBANKS	0	175	52
GULKANA	0	22	9
HOMER	0	0	0
JUNEAU	0	7	0
KING SALMON	0	0	0
KODIAK	0	0	0
KOTZEBUE	0	0	0
MC GRATH	0	18	14
NOME	0	1	0
ST. PAUL ISLAND		0	0
SUMMIT	0	0	0
TALKEETNA	0	10	6
UNALAKLEET	0	4	0
VALDEZ	0	0	0
YAKUTAT	0	0	0
ARIZONA			
FLAGSTAFF	0	88	140
PHOENIX	540	3474	3242
TUCSON	458	2383	2601
WINSLOW	106	1043	1189
YUMA	694	3452	3783
ARKANSAS			
FORT SMITH	175	1625	1943
LITTLE ROCK	178	1852	1862
CALIFORNIA			
BAKERSFIELD	538	2518	2059
BISHOP	146	1043	1022
BLUE CANYON	80	371	302
EUREKA U	0	0	0
FRESNO	329	1553	1605
LONG BEACH	282	863	859
LOS ANGELES	163	426	509
LOS ANGELES U	277	819	1001
MT SHASTA R	42	270	286
OAKLAND	23	103	114
RED BLUFF	416	1828	1822
SACRAMENTO	375	1573	1111
SANDBERG R	225	721	780
SAN DIEGO	201	486	631
SAN FRANCISCO	19	78	95
SAN FRANCISCO U	15	50	23
SANTA MARIA	19	24	67
STOCKTON	288	1340	1217
COLORADO			
ALAMOSA	0	28	88
COLORADO SPRINGS	41	475	455
DENVER	39	549	620
GRAND JUNCTION	106	995	1129
PUEBLO	97	1005	971
CONNECTICUT			
BRIDGEPORT	46	789	729
HARTFORD	27	857	984
DELAWARE			
WILMINGTON	73	1069	980
DIST. OF COLUMBIA			
WASHINGTON DULLES	73	991	931
WASHINGTON NATIONAL	132	1589	1386
FLORIDA			
APPALACHICOLA U	357	2288	2406
DAYTONA BEACH	445	2722	2512
FORT MYERS	490	3516	3076
JACKSONVILLE	406	2445	2340
KEY WEST	538	4275	3912
LAKELAND U	440	3025	2821
MIAMI	517	3687	3253
ORLANDO	479	3036	2753
PENSACOLA	350	2543	2472
TALLAHASSEE	352	2323	2368
TAMPA	512	3367	2876
WEST PALM BEACH	472	3232	3072
GEORGIA			
ATHENS	232	1725	1664
ATLANTA	193	1516	1532
AUGUSTA	293	1817	1914
COLUMBUS	279	2027	2044
MACON	251	1924	2181
ROME	188	1597	1965
SAVANNAH	351	2320	2170
HAWAII			
HILO	323	2340	2296
HONOLULU	438	3095	3175
KAHULUI	344	2575	2806
LIHUE	394	2885	2799
IDAHO			
BOISE	96	778	708
LEWISTON	92	756	657
POCATELLO	23	436	437
ILLINOIS			
CAIRO U	160	1818	1751
CHICAGO O HARE	46	1015	652
CHICAGO MIDWAY	52	1095	906
MOLINE	44	1015	877
PEORIA	55	974	951
ROCKFORD	22	829	703
SPRINGFIELD	94	1164	1095
INDIANA			
EVANSVILLE	129	1470	1339
FORT WAYNE	37	823	739
INDIANAPOLIS	71	1032	961
SOUTH BEND	32	827	687
IOWA			
BURLINGTON	58	1028	974
DES MOINES	58	1205	910
DUBUQUE	19	680	596
SIOUX CITY	50	985	923
WATERLOO	30	888	665
KANSAS			
CONCORDIA	115	1351	1275
DODGE CITY	162	1446	1384
GOODLAND	104	866	916
TOPEKA	116	1410	1331
WICHITA	128	1449	1629
KENTUCKY			
COVINGTON	72	1139	1063
LEXINGTON	86	1245	1174
LOUISVILLE	116	1465	1241
LOUISIANA			
ALEXANDRIA	289	2365	2069
BATON ROUGE	302	2352	2400
LAKE CHARLES	311	2352	2508
NEW ORLEANS	314	2336	2474
SHREVEPORT	271	2041	2376
MAINE			
CARIBOU	0	271	128
PORTLAND	2	351	252
MARYLAND			
BALTIMORE	85	1208	1494
MASSACHUSETTS			
BLUE HILL OBS R	10	560	457
BOSTON	44	849	661
WORCHESTER	0	452	387
MICHIGAN			
ALPENA	1	380	208
DETROIT			
DETROIT METRO	7	725	646
FLINT	1	542	432
GRAND RAPIDS	8	604	569
HOUGHTON LAKE	2	367	250
LANSING	5	597	529
MARQUETTE U	1	413	216
MUSKEGON	6	572	463
SAULT STE MARIE	2	243	139
MINNESOTA			
DULUTH	0	229	176
INTERNATIONAL FALLS	0	326	176
MINNEAPOLIS	18	834	578
ROCHESTER	18	700	467
ST CLOUD	7	541	426
MISSISSIPPI			
JACKSON	255	2133	2190
MERIDIAN	274	2137	2119
MISSOURI			
COLUMBIA REGIONAL	83	1094	1239
KANSAS CITY	105	1490	1383
ST JOSEPH	92	0	
ST LOUIS	110	1376	1434
SPRINGFIELD	109	1296	1341
MONTANA			
BILLINGS	26	468	498
GLASCOW	6	378	438
GREAT FALLS	12	315	332
HAVRE	8	353	395
HELENA	0	167	256
KALISPELL	0	207	117
MILES CITY	18	[illegible]	746
MISSOULA	0	258	188
NEBRASKA			
GRAND ISLAND	66	1032	1025
LINCOLN	74	1245	[illegible]
NORFORK	60	1056	915
NORTH PLATTE	39	720	802
OMAHA	76	1345	1154
SCOTTSBLUFF	43	788	666
VALENTINE	47	883	731
NEVADA			
ELKO	0	283	342
ELY	0	168	207
LAS VEGAS	508	2854	2801
RENO	33	345	329
WINNEMUCCA	25	485	407
NEW HAMPSHIRE			
CONCORD	0	553	349
MT WASHINGTON OBS	0	[illegible]	0
NEW JERSEY			
ATLANTIC CITY	48	873	864
ATLANTIC CITY U	50	805	825
NEWARK	46	1070	1013
TRENTON U	49	1036	958
NEW MEXICO			
ALBUQUERQUE	96	1100	1309
CLAYTON	82	718	759
ROSWELL	159	1401	1533
NEW YORK			
ALBANY	12	595	574
BINGHAMTON	1	551	369
BUFFALO	3	631	437
NEW YORK U	43	988	1054
NEW YORK KENNEDY	41	856	853
NEW YORK LA GUARDIA	46	924	1038
ROCHESTER	5	650	531
SYRACUSE	1	554	551
NORTH CAROLINA			
ASHEVILLE	89	795	857
CAPE HATTERAS R	345	1766	1461
CHARLOTTE	196	1523	1546
GREENSBORO	192	1532	1312
RALEIGH	209	1402	1357
WILMINGTON	369	2183	1869
NORTH DAKOTA			
BISMARCK	2	433	487
FARGO	1	538	473
WILLISTON	5	376	422
OHIO			
AKRON	5	768	628
CINCINNATI ABBE OB	101	1334	1166
CLEVELAND	6	715	606
COLUMBUS	48	1136	801
DAYTON U	46	954	923
MANSFIELD	8	737	808
TOLEDO	7	685	678
YOUNGSTOWN	8	647	518
OKLAHOMA			
OKLAHOMA CITY	170	1528	1808
TULSA	192	1820	1871
OREGON			
ASTORIA	17	23	13
BURNS U	35	347	289
EUGENE	82	292	239
MEDFORD	140	600	562
PENDLETON	109	826	656
PORTLAND	75	340	300
SALEM	41	197	232
SEXTON SUMMIT R	118	274	137
PACIFIC AREA			
GUAM TAGUAC R	422	3777	3735
JOHNSTON	461	3622	3782
KOROR R	504	4559	4472
KWAJALEIN	482	4617	4609
MAJURO	458	4220	4414
PAGO PAGO	444	4138	3967
PONAPE R	471	4401	4238
TRUK MOEN ISLAND	489	4547	4359
WAKE	505	3969	4056
YAP R	448	4233	4417
PENNSYLVANIA			
ALLENTOWN	18	777	766
ERIE	9	582	373
HARRISBURG	44	1012	1017
PHILADELPHIA	98	1189	1091
PITTSBURGH	12	714	640
SCRANTON	13	735	601
WILLIAMSPORT	10	600	692
RHODE ISLAND			
BLOCK ISLAND	18	487	359
PROVIDENCE	16	689	532
SOUTH CAROLINA			
CHARLESTON	[illegible]	2179	[illegible]
CHARLESTON U	376	[illegible]	[illegible]
COLUMBIA	317	2064	1995
GRNVLLE-SPRTNBRG	180	1490	1530
SOUTH DAKOTA			
ABERDEEN	34	864	566
HURON	33	898	711
RAPID CITY	19	571	652
SIOUX FALLS	36	894	713
TENNESSEE			
BRISTOL	130	[illegible]	1078
CHATTANOOGA	162	1337	1584
KNOXVILLE	168	1504	1521
MEMPHIS	224	[illegible]	1949
NASHVILLE	164	1617	1641
OAK RIDGE	114	1145	1333
TEXAS			
ABILENE	236	1906	2334
AMARILLO	134	1189	1397
AUSTIN	329	2357	2678
BROWNSVILLE	408	3297	3332
CORPUS CHRISTI	422	3224	3076
DALLAS FT WORTH	331	2372	2435
DEL RIO	345	2634	3115
EL PASO	[illegible]	1908	2037
GALVESTON	378	2642	2664
HOUSTON INTERCON	303	2390	2633
LUBBOCK	155	1418	1609
MIDLAND	217	1836	2140
PORT ARTHUR	335	2385	2563
SAN ANGELO	238	1950	2548
SAN ANTONIO	337	2325	2765
VICTORIA	[illegible]	2966	2835
WACO	376	2330	2669
WICHITA FALLS	237	2061	2482
UTAH			
MILFORD	37	475	688
SALT LAKE CITY	80	886	916
WENDOVER	[illegible]	1099	1132
VERMONT			
BURLINGTON	5	698	396
VIRGINIA			
LYNCHBURG	103	1073	1083
NORFORK	233	1672	1403
RICHMOND	165	1364	1326
ROANOKE	114	1120	1018
WALLOPS ISLAND	170	1227	1081
WASHINGTON			
OLYMPIA	[illegible]	59	101
QUILLAYUTE	[illegible]	6	8
SEATTLE	17	120	183
SEATTLE-TACOMA	39	197	129
SPOKANE	20	340	388
STAMPEDE PASS R	[illegible]	36	16
WALLA WALLA U	103	795	856
YAKIMA	26	484	479
WEST INDIES			
SAN JUAN P.R.	[illegible]	4273	3721
WEST VIRGINIA			
BECKLEY	37	547	484
CHARLESTON	82	1063	1036
ELKINS	27	397	389
HUNTINGTON	[illegible]	1255	1078
PARKERSBURG U	53	1038	1025
WISCONSIN			
GREEN BAY	3	512	386
LA CROSSE	16	799	683
MADISON	18	721	454
MILWAUKEE	16	577	444
WYOMING			
CASPER	5	394	458
CHEYENNE	[illegible]	193	327
LANDER	14	332	383
SHERIDAN	[illegible]	293	446

STORM SUMMARY

STATE	TORNADOES					HAILSTORMS				WINDSTORMS				LIGHTNING				@HEAVY SNOWSTORMS AND BLIZZARDS				# ICE STORMS				ϕ ALL OTHER		
	NUMBER	DAYS	DEATHS	INJURIES	† DAMAGE	DEATHS	INJURIES	†DAMAGE PROPERTY	†DAMAGE CORPS	DEATHS	INJURIES	†DAMAGE PROPERTY	†DAMAGE CORPS	DEATHS	INJURIES	†DAMAGE PROPERTY	†DAMAGE CORPS	DEATHS	INJURIES	†DAMAGE PROPERTY	†DAMAGE CORPS	DEATHS	INJURIES	†DAMAGE PROPERTY	†DAMAGE CORPS	DEATHS	INJURIES	†DAMAGE PROPERTY
Alabama												7	8															
Alaska *																												
Arizona										2	18	5																5
Arkansas																4												
California																										1	2	3
Colorado *																												
Connecticut									3			3				3										2		6
Delaware *																												
Florida	9	6			5					1	2	4		2	33	5											1	8
Georgia	1	1		8	4							6	6															
Hawaii																												
Idaho																4												
Illinois *																												
Indiana												5		1		4												
Iowa														1		2												
Kansas	3	1			5			4	4			5	4			4												
Kentucky									4		3	5	4															
Louisiana												4	2		1													
Maine *																												
Maryland & DC												3	3															7
Massachusetts																4											1	4
Michigan												4																°4
Minnesota	2	1			4				3			4				4												
Mississippi															1	[illegible]												5
Missouri	3	3		5	6			4	5			4			1	5												5
Montana *																												
Nebraska	1	1			5											5												
Nevada	1	1																								1		5
New Hampshire *																												
New Jersey																												2
New Mexico																												4
New York	1	1		3	4																					6	1	°8
North Carolina	2	2			4				5			4	5	1	2													
North Dakota												5	2															
Ohio	3	2			5										1	5												5
Oklahoma												3				5												5
Oregon	1	1										[illegible]				2												
Pacific *																												
Pennsylvania	2	1			[illegible]						1	5	2		1	2										4		8
Puerto Rico										2	1	5	C													41	274	°8
Rhode Island *																												
South Carolina	1	1			5			4	4			4			2	5										1	3	6
South Dakota								5	5			2				4												
Tennessee											2	4		1		4												5
Texas	3	3			4							4																2
Utah *																												
Vermont *																												
Virginia	1	1			3																					2		7
Virgin Islands												5																4
Washington *																												
West Virginia																										1		4
Wisconsin								[illegible]	2			4															2	°6
Wyoming												5																

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

SEPTEMBER 1975

Herbert J. Thompson, Office of Hydrology

The major flood event of the month was that caused by the heavy rains associated with Hurricane Eloise. Preliminary estimates indicate total losses in excess of $475 million with 50 people dead. Hardest hit areas were Puerto Rico with 34 known dead and losses of $60 million, the Susquehanna River Basin with 9 dead and losses approaching $300 million, and the lower Hudson River Basin with 2 dead and losses of more than $64 million. Serious flood losses also resulted from Eloise in the Lake Ontario drainage, Connecticut, Maryland, and Virginia.

The serious flooding in the Great Lakes drainage in Michigan continued from August with record stages on the Little Muskegon and White Rivers.

Urban and flash flooding were widespread in the areas affected by Eloise and took 2 lives and caused significant property losses in some other areas. Most seriously affected were Rock Hill and Greenville County, SC, Pryor, OK, Raymondsville, TX, several communities in New Mexico and Arizona, and the Mojave Desert area of California.

These and other hydrologic events of unusual significance or involving loss of life or property damage are discussed in more detail below.

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ST. LAWRENCE DRAINAGE		
Great Lakes Drainage in Michigan	Heavy rainfall during the period August 29 to September 1, discussed in the August report, caused significant flooding over much of lower Michigan which continued into the first week of September. Major flooding occurred in the Muskegon and White Basins with record crest stages on the Little Muskegon and White Rivers. Damage in these two basins was estimated at $5.4 million by the Corps of Engineers. Significant flooding was reported on many streams in the Saginaw River Basin, including the Shiawassee, Tobacco, Chippewa, and Tittabawassee Rivers. Flood stages have not been determined on many of these streams. Minor flooding was reported in the upper Grand River Basin.	0	6,054
Lake Ontario Drainage	Heavy rainfall in excess of 5 inches associated with the remnants of Hurricane Eloise caused severe small stream flooding in portions of Cayuga, Onandaga and Oswego Counties. One reporting station on the Genessee River at Wellsville, NY, slightly exceeded flood stage on the 26th. Estimates of losses were: Cayuga, $2.9 million to agriculture, $500,000 to public property, and $500,000 to private property; Onadaga, $300,000 private, $200,000 public, and $150,000 agricultural; and Oswego, $1 million agricultural.	0	5,550
	ATLANTIC SLOPE DRAINAGE		
Connecticut and Housatonic River Basins	Heavy rainfall associated with the remnants of Hurricane Eloise occurred over portions of these basins during the 22d-27th. The axis of heaviest rainfall extended northeastward from New York City across western Connecticut into southern New Hampshire. Storm totals of nearly 10 inches fell over the Housatonic and Farmington River Basins. Flooding was generally light on the larger rivers.	2	9,360

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

SEPTEMBER 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ATLANTIC SLOPE DRAINAGE-Cont'd		
	On the Farmington River, a major tributary of the Connecticut, a crest 2.5 feet over flood stage occurred at Simsbury, CT, and 1 to 2 feet of flooding was reported on the lower Connecticut River. However, a crest 5.7 feet over flood stage was reported on the lower Housatonic River at Stevenson, CT. The major damage resulted from severe urban and flash flooding with a total of 42 communities affected. Damage estimates are: private property in 18 communities, $5,928,000; public property in 40 communities, $2,915,000; highway damage, $277,000; and agricultural damage (mostly to the apple crop), $240,000. Damage was confined to the state of Connecticut. The most seriously affected communities were Danbury, $4,750,000; New Milford, $1 million. Watertown, $750,000; Shelton, $300,000; Torrington, $250,000; Middlebury, $250,000; Barkhamsted, $225,000; Woodbury, $200,000; Vernon, $142,000; Bristol, $125,000; Winsted, $125,000; and Ridgefield, $100,000. The worst flooding since 1955 was reported along the Naugatuck River. There were two flood-related deaths in Connecticut.		
Hudson River Basin (New York)	Heavy rains associated with the remnants of Hurricane Eloise totaled from 8 to 10 inches over the extreme lower portion of the Hudson River Basin. While no river reporting stations went over flood stage severe urban and flash flooding occurred with major damage in the area. The hardest hit area was Westchester County where preliminary estimates of losses totaled $41.5 million, of which $30 million was to private property, $10 million to public property, and $1.5 million to agriculture. In New York City most of the damage occurred in Queens where losses totaled $11.1 million of which $10 million was to private property and $1.1 million to public. In Rockland County private losses totaled $13 million and public losses $100,000. There were two flood-related deaths in Westchester County.	2	65,700
New Jersey Coastal and Delaware Basin Streams	Several periods of intense rainfall deposited amounts of 5 to 11 inches over New Jersey during the 5 days of the 22d-26th. This unusual meteorological activity has been described by the Philadelphia WSFO as follows: "A cold front moved through the district on the 21st and became stationary along the coast of New Jersey on the 22d. The portion of the front in the Gulf States began to move slowly northward on the 23d. A large area of precipitation north of the front remained over the district the next several days as weak low pressure areas moved along the front. The remnants of Hurricane Eloise were picked up by the southern portion of the front which continued its slow northward movement. A complex low pressure system formed and moved northeast into New Eng-	0	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

SEPTEMBER 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ATLANTIC SLOPE DRAINAGE-Cont'd		
	land dragging the front east of the district during the early morning hours of the 27th. Measurable precipitation was observed over most of the district from the 19th through the 26th. A number of New Jersey streams went over flood stage, including the Ramapo, Rockaway, Saddle, Passaic, upper Millstone, Raritan, Assunpink, Rancocas, and Cooper Rivers. Flooding was reported along the Pompton River with 125 families evacuated in Wayne Township, but the recorder was inoperative and no data was available. Because the heavy rainfall occurred in several periods flooding was generally light and two crests were observed on a number of streams with three crests reported on the Assunpink River. A crest 6.5 feet over flood stage was determined from a high water mark on the Millstone River at Blackwell's Mills. About 2 feet of flooding occurred along the Passaic, Saddle, and Assunpink Rivers and 3.5 to 2.5 feet of flooding occurred along the Raritan River.		
Delaware River Basin (Pennsylvania)	No river flooding was reported in this basin. However, urban and small stream flooding took two lives. A 30-year old man drowned in a railroad underpass in Philadelphia and an 18-year old youth drowned while rafting on Tulpehocken Creek near Reading. Property losses are not known.	2	N.A.
Susquehanna River Basin	Record September rainfall over the Susquehanna Basin produced the greatest September flows of record. Flows were running somewhat higher than normal through the 23d when significant rainfall from the remnants of Eloise began to affect the area. Almost continuous rain from the 22d through the 26th produced totals of 5 to 7 inches over most of the basin and 10 to 15 inches over the lower and middle Susquehanna Valley. Amounts of similar magnitude were observed only during Agnes in June 1972. Small streams and creeks began to overflow their banks on the 24th, although the Susquehanna rose only moderately to one-half bankfull levels the afternoon of the 25th. Following several inches of intense rainfall over the entire basin and up to 8 inches in the Harrisburg area during the early morning hours of the 26th, however, the main stem began to rise at the rate of 8 to 12 inches an hour, reaching flood stage in most places by noon of the 26th. The river continued to rise until the afternoon of the 27th when crests of 5 to 13 feet above flood stage materialized. The 23.8 foot crest at Harrisburg was the sixth highest of record. Crests of 2 to 10 feet above flood stage were reached on the West Branch below Lock Haven on the 26th. Headwaters of the West Branch of the Susquehanna, as well as the entire reach of the Juniata, experienced no flooding as crests reached only three-fourths to near bankfull levels.	9	296,000

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

SEPTEMBER 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ATLANTIC SLOPE DRAINAGE-Cont'd		
	In the headwaters of the Susquehanna River in New York State storm totals of 3.5 to 6.5 inches caused major flooding along the Chemung River and its tributary, the Tioga River. The crest of 24.0 feet at Chemung, NY, 12 feet over flood stage, was the second highest of record, exceeded only by the Agnes flood of June 1972 which reached a stage of 31.4 feet. The crests of 19.75 feet on the Chemung River at Elmira, NY, (flood stage 10 feet) and 22.7 feet on the Tioga River at Lindley, NY, (flood stage 17 feet) were the third highest of record. Crests along the Chenango River ranged up to about one foot over flood stage but flooding was severe enough to require the construction of an emergency dike in the Binghamton, NY, area. Serious flash flooding occurred along many of the smaller streams in the basin. Damage was extensive but far below that of the record Agnes flood of 1972. In the Pennsylvania portion of the basin preliminary estimates of losses were $241.6 million with no breakdown as to type of loss available. Five flood-related deaths were reported, nearly 20,000 people were evacuated, 2,000 National Guardsmen were activated, 51 water plants and 50 roads were affected, and 32 bridges were destroyed. In the New York State portion of the basin losses were estimated at $54.4 million, of which $23.5 million was agricultural, $13.1 million private property, and $17.8 million public property. The most seriously affected country was Chemung with losses of $32 million. Other counties affected were: Steuben, $11.3 million; Tioga, $5.3 million; Broome, $3.1 million; Madison, $2 million; and Allegheny, $700,000. Some losses were indicated in Chenango County, but no estimate is available. An estimated 3,500 people were evacuated and four flood-related deaths were reported.		
Potomac River Basin and Chesapeake Bay tributaries in Maryland	Major flooding developed in this area as a result of heavy rains associated with the remnants of hurricane Elosie augmented by surface waves accompanying an upper level trough which maintained the northerly flow of moisture-laden air. During the period of the 23d-27th storm totals of 6 to 9 inches were reported over the lower Potomac River Basin and most of northern Maryland with an 11-inch center over the Monocacy River Basin. The most severe river flooding occurred along the Monocacy River, which crested 15.8 feet over flood stage at Frederick, MD, where two water system pumping stations and a sewage treatment plant were closed. The Potomac River crested 5.5 feet over flood stage at Sheperdstown, WV; 8.4 feet over flood stage at Point of Rocks, MD, partially caused by heavy inflow from the Monocacy; and 3.4 feet over flood stage in the Washington, DC, area.	0	38,950

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ATLANTIC SLOPE DRAINAGE-Cont'd		
	Severe flooding occurred along the Patapsco River with Ellicott City, MD, particularly hard hit. Urban and flash flooding of small streams caused substantial damage in Maryland, where total losses have been estimated at $24 million, of which $9 million was in Prince Georges County. Major damage was also reported in Carroll, Baltimore, Howard, Anne Arundel, and Montgomery Counties in Maryland with 2,600 families affected, 3,500 people evacuated, 78 dwellings and 63 businesses suffered major damage, and 1,650 dwellings sustained minor damage.		
	Severe urban flooding occurred in the District of Columbia with losses estimated at $3 million, of which $2.5 million was to Metropolitan Transit Authority construction sites.		
	Major flash flood damage occurred again along Four Mile Run in Arlington County and Alexandria in Northern Virginia. Losses to small businesses and residential garden apartments were estimated at $11.9 million, with about 1,500 people evacuated. Urban flooding caused losses of $50,000 in Occoquan, Loudoun County, VA.		
James River Basin (Virginia)	Monthly rainfall was well above normal over the basin with a new record total for September at Richmond of 10.98 inches. Other monthly totals ranged from less than 5 to more than 18 inches. This rainfall was spread out over the month so that no serious flooding developed. During the period of the 20th-26st amounts of 4 to 6 inches associated with the remnants of Eloise fell over the middle and lower portions of the basin including the Rivanna and Appomattox tributaries. Significant flooding occurred on the Rivanna River with a crest 6.5 feet over flood stage at Palmyra, and along the Appomattox River with crests ranging from 5 feet over flood stage at Farmville to 2 feet over flood stage downstream at Mattoaca. Flooding also occurred on portions of the James River at Bremo Bluff and at Richmond, where crests 4 to 5 feet over flood stage were reported.	0	N.A.
Atlantic Coastal Streams in North Carolina	Locally heavy showers occurred on the 1st over eastern portions of the district with amounts of 2.5 to 5 inches. Heavier rains fell again on the 12th and the 17-18th. On the 22d a combination of a frontal zone and the remnants of Hurricane Eloise caused four days of rainfall. Storm totals were generally 2 to 4 inches with up to 5 inches over the Piedmont and nearly 9 inches over south coastal areas. Some generally minor flooding resulted on several streams. Crests of 1 to 2.5 feet over flood stage occurred along the Neuse, Rocky, and Lumber River. About 5 feet of flooding was reported along the middle reach of the Cape Fear River.	0	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

SEPTEMBER 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ATLANTIC SLOPE DRAINAGE-Cont'd		
Atlantic Coastal Streams in South Carolina	Severe flash flooding struck two areas of South Carolina during September. They were Greenville County, SC, especially the Reedy River Basin, and the city of Rock Hill, SC. About 90% of the substantial damage for the month occurred in these two areas. Elsewhere significant flooding occurred along the Pee Dee River in northeastern South Carolina. Minor flooding occurred along the upper Saluda River and lower Broad River as well as along the Congaree River below Columbia, SC.	1	908

Rainfall was generally heaviest in the 24 hours ending at 7 a.m. on the 18th and with the passing effect of Hurricane Eloise in the 48 hours ending at 7 a.m. on the 24th. A striking feature of the heavy rainfall the night of the 17th and early morning of the 18th was the line of convergence extending from south to north from Calhoun Falls, SC to Antreville, SC, Pelzer, SC, Greenville, SC, Hogback Mountain, SC, Tryon, NC, to Lake Lure, NC. Converging southwest and southeast winds aloft over a wedge of cooler air produced this heavy rainfall. Amounts of rainfall averaged 5.5 to 6 inches along this line. A trough aloft with surface low moving northeast from Mobile, AL, triggered this rainfall. The rainfall caused by remains of Hurricane Eloise was less spectacular with 2.5 to 4 inches over higher elevations within 48 hours.

Monthly rainfall ranged from 17 to 19 inches over the small mountainous area of South Carolina to 10 to 12 inches over the upper Piedmont. The lower Piedmont received 5 to 7 inches. An area of light rainfall over south central South Carolina received an average of only 3 to 5 inches.

The Greenville, SC, Duke Power Station, near the Hudson Street staff gage, recorded 5.84 inches of rainfall in the 24 hours ending at 7 a.m. on the 18th. In the same time period the Traveler's Rest automatic gage recorded 4.5 inches rainfall, and the Hunts Bridge observer, 3.24 inches. Flooding of streets and roads occurred in the city of Greenville, SC, and also Greenville County. Reedy River crested at Hudson Street at 15.0 feet at about 6:30 a.m. on the 18th. This was 6 feet over flood stage and the highest flood crest since the 15.6 feet crest on March 6, 1963. In an outlying area south of Greenville (not Reedy River Basin), a child drowned when a car plunged in a deep washout in a road. A lake dam had burst upstream. Heavy property damage occurred at Westfield Bridge, site of the telemark gage. The crest is estimated to have reached a gage reading of about 13.5 feet. Reedy River stayed within banks at Westfield Bridge, but overflow over the right bank upstream came down railroad tracks parallel to the stream bed causing extensive damage in the Citizens Building Mart Warehouse. Evac-

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)

ATLANTIC SLOPE DRAINAGE-Cont'd

uation of some residents, especially along Richland Creek, was necessary. Minor flooding occurred again on the 23d, when the stage of the Reedy River at Greenville reached 10 feet. About 75% of the Greenville County losses occurred along Reedy River and its main tributaries, Langston Creek and Richland Creek. The Bleachery at intersection of Old Buncombe Road and Highway 253 suffered a loss of $500,000. Total losses for Greenville County were estimated at $743,500.

In the Catawba-Wateree Basin, Lake Norman, largest reservoir in this system, and Lake Wylie were able to protect downstream reservoirs from flooding by storage of heavy inflow during the third week. Remains of Hurricane Eloise went up the west side of the Appalachians, removing a dangerous flood threat. A cloudburst occurred over the city of Rock Hill, SC between about 6 and 10 p.m. on the 22d. Winthrop College, in the center of Rock Hill, recorded 3.61 inches of rainfall in 2 3/4 hours and 4 inches in four hours. A few miles to the northwest, Fort Mill, SC, (Lake Wylie Dam) recorded 4.64 inches within 24 hours, with the bulk of it during the evening of the 22d. On the northeast edge of Rock Hill, the Celanese Corporation observer recorded 2 inches of rainfall from 6 p.m. to 8 p.m. on the 22d and 3.30 inches of rainfall by 11:30 p.m. with a 24-hour amount of 3.87 inches. Severe flash flooding resulted with about 300 people forced from homes, apartments, etc. Within 2 hours after the end of heavy rainfall, all except 5 families were able to return home as flood waters rapidly receded to bankfull stages. Damage estimates in a thorough Civil Defense report are estimated at $140,000 by E. F. Stutts, Director. The rapid and efficient reaction to this severe flooding by Civil Defense, city employees, and the Rescue Squad was one of the finest seen in South Carolina this year.

In the Pee Dee Basin heavy rainfall of about 10 inches within a week at Cheraw, SC, gave a crest there of 31.6 feet on the 25th. Flood stage is 30 feet. Downstream at Pee Dee, SC, flood stage of 19 feet was reached on the 26th. The crest there of 21.2 feet occurred on the 29th, and flooding continued at the end of the month. Losses were estimated at $25,000, mainly agricultural.

In the Broad River Basin heavy rainfall of 4 to 6 inches occurred over the headwaters in the 24 hours, ending at 7 a.m. on the 18th. Downstream rainfall was much less and the crest at Gaffney on the 19th was 8 feet, which lacked 1.5 feet of reaching flood stage. Downstream at Blair, SC the crest on the 21st reached 13.8 feet, lacking 0.2 feet of reaching flood stage. Additional heavy rainfall of 2.5 inches over the headwaters on the 23d-24th resulted in a crest 1.1 feet over

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

SEPTEMBER 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ATLANTIC SLOPE DRAINAGE-Cont'd		
	flood stage the evening of the 25th at Blair. In the Saluda River Basin rainfall of 2.5 inches over the headwaters and 5.35 inches at Pelzer, SC, within 24 hours gave a crest of 10 feet at Pelzer on the 18th. Flood stage is 9 feet. Lake Greenwood successfully handled flood inflow by storage and generation.		
	EAST GULF OF MEXICO DRAINAGE		
Northwest Florida and Alabama Streams	September was a normal month for rainfall and river fluctuations were normal up until the time Hurricane Eloise moved inland near Fort Walton Beach, FL, and continued north through eastern Alabama. The rapid movement of the storm prevented major flooding in Alabama and northwest Florida. However, extensive lowland flooding occurred in northwest Florida while in Alabama some rivers rose to near flood stage. Heaviest rains fell just north of Montgomery, AL, where almost 7 inches was recorded in a 30-hour period. Rainfall elsewhere in southern Alabama and northwest Florida totaled 4 to 6 inches with some locally higher amounts. On the Coosa River, Lake Logan Martin reached 467.2 feet on the 25th, 2.2 feet above flood stage. The Yellow River crested 2.3 feet above flood stage at Milligan, FL on the 26th. Residents were evacuated and some homes were flooded in the old Milligan area. Further downstream at Millers Bluff the river was 10 feet above normal, but sparse population below Milligan kept damage to a minimum. Lowland flooding occurred along the Blackwater, Shoals, and Escambia Rivers but no reporting stations went over flood stage. The lower Alabama and Choctawhatchee Rivers crested just below flood stage at Claiborne, AL, and Caryville, FL, respectively. The monthly mean flow of the Shoals River at Crestview, FL, of 3,990 c.f.s. was reported by the U. S. Geological Survey to be the highest for September since records began in 1938.	0	N.A.
	UPPER MISSISSIPPI BASIN		
Chippewa River Basin	Rural flooding occurred along Bear Creek near Durand, WI, on the 11th in response to highly localized heavy rain in the area. Durand reported 7.55 inches for the storm. No reporting stations went over flood stage. The resultant rise on the Chippewa River was 3.2 feet.	0	N.A.
	MISSOURI BASIN		
James River	Rural flooding on the James River around Stratford, SD, which had been in progress since late May, ended on the 7th.		

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

SEPTEMBER 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	MISSOURI BASIN-Cont'd		
Kansas River Basin	Flash flooding was reported in the vicinity of Russell, KS, on the 5th, caused by rains in excess of 2.5 inches with an unofficial report of 7.25 inches near Dorrance, KS. From 12 to 18 inches of water were reported over both lanes of Interstate 70, the Union Pacific Railroad, and old U. S. 40, all of which were closed to traffic for a few hours. On the 10th-11th thunderstorms produced 2.5 to 3 inches of rain over northeast Kansas causing rises on small streams in the area. Stranger Creek crested about 1.5 feet over flood stage at Easton, KS.	0	N.A.
Lower Missouri River tributaries	Locally heavy rains occurred on three occasions over portions of the area with monthly totals of 6 to 9.5 inches over some areas. On the 11th-12th amounts in excess of 3.5 inches caused some flooding on streams in west central Missouri. The Little Blue River crested 5 feet over flood stage at Lake City, the Blackwater River crested 4.5 feet over flood stage at Valley City, and 1.5 feet of flooding occurred on the Lamine River at Clifton City.	0	N.A.
Missouri River Main Stem	Flooding at Williston, ND, which began early in June from high pool elevations behind Garrison Dam ended about the 1st. Above normal releases from upstream reservoirs continued to cause lowland flooding from Ponca to Rulo, ND, during the month. On the 4th-5th rains of up to 6.5 inches over northwest Missouri caused the Missouri River to slightly exceed flood stage at St. Joseph, MO.	0	N.A.
	OHIO RIVER BASIN		
Middle Ohio River Basin	No river flooding occurred during September; however, small stream flooding was reported in the New River Basin from rains of 3 to 4.5 inches on the 17th-19th, and again on the 22d-24th from rains of 4 to 5 inches associated with the remnants of Hurricane Eloise. A small child drowned in the Meadows River near Rupert, WV, during the latter event. Rainfall amounts up to 4 inches caused minor flash flooding over portions of South Central, Central and Northeast Kentucky on the 23d-24th.	1	N.A.
Tennessee River Basin	Rainfall associated with hurricane Eloise amounted to 4-5 inches over the upper portion of the basin with the upper French Broad River and South Chickamauga Creek going over flood stage. Crests of 1 to 2 feet over flood stage were reported on the upper French Broad and a crest 5.6 feet over flood stage occurred at Chickamauga, TN.	0	N.A.
Ohio River Main Stem	Rains from Hurricane Eloise caused a pronounced rise along the Ohio River. Stages rose more than 18 feet just above Cincinnati, OH, and 5	0	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

SEPTEMBER 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	OHIO RIVER BASIN-Cont'd		
	feet at Louisville, where some small boats were lost. The lower Ohio crested about three-quarters bankfull by the end of the month.		
	WHITE BASIN		
Cache River	Flooding continued from August on the Cache River, which fluctuated above flood stage the entire month. A secondary crest 1.2 feet over flood stage occurred at Patterson, AR, on the 22d. Rainfall in excess of one inch was reported on the 13th and 20th.	0	N.A.
	ARKANSAS BASIN		
Pryor Creek	An intense slow moving thunderstorm deposited 8.56 inches of rain on Pryor, OK, during the 24-hour period ending at 7 a.m. on the 19th. The average rainfall over the surrounding area of about 90 square miles for this period was 5.9 inches. More than 30 homes suffered water damage from Pryor Creek. No stage reports are received from this stream.	0	300
Illinois River	Rainfall was well above normal during September over the headwaters of the Illinois River in northwest Arkansas. Huntsville, AR, just over the divide, had a monthly total of 11.46 inches, of which 5 inches fell in a 24-hour period. The Illinois crested 3.3 feet over flood stage at Tallequah, OK, on the 21st.	0	N.A.
	WEST GULF OF MEXICO DRAINAGE		
Rio Grande Basin	Tropical storm Caroline produced the first heavy rains over the lower Rio Grande Valley in over a year. Severe urban flooding occurred in Raymondville, TX, where a total of 11.09 inches of rain fell during the period August 30 to September 2. Residential damage occurred in 50 blocks of the city. Elsewhere in the United States portion of the basin amounts of 3 to 6 inches were reported. However, rainfall was much heavier on the Mexican side of the river. The runoff from this storm caused a strong rise on the lower Rio Grande which lasted through the end of the month with a crest about 2 feet below flood stage at Mercedes and Brackettville, TX, on the 18th. The river failed to go over flood stage due to operation of the flood bypass by the International Boundary Commission. Serious flooding also occurred in parts of New Mexico. Numerous homes and several major roads were flooded around Belen, NM, as the city received its greatest September rainfall since 1928. During the period of the 3d-13th, 4.36 inches were recorded at Belen. Urban flooding	0	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	WEST GULF OF MEXICO DRAINAGE-Cont'd		
	was reported in Santa Fe with residential damage.		
	GREAT BASIN		
Nevada	On the 8th-9th flash flooding was reported in the Tonopah area and east of Reno with Interstate 80 closed in the Fernley and Wadsworth areas. Urban flooding occurred in Reno with streets closed and garages flooded in the southwest part of the city.	0	N.A.
Mojave Desert and Owens Valley areas	Flash flooding occurred in a number of areas in Inyo, Mono, and San Bernardino Counties of California on the 10th. In this sparsely populated area the principal effect was the inundation of several major highways. These included: Highway 136 east of Lone Pine; Highway 127 east of Death Valley Junction; Highway 190 from Death Valley Junction to Furnace Creek Junction; Highway 14 between Mojave and Red Rock Canyon; and the Lenwood off-ramp from Interstate 15. A number of secondary roads in Owens Valley were also affected. A woman was killed when an 8 foot wall of water knocked her car off of Highway 14 into Red Rock Canyon.	1	N.A.
	GULF OF CALIFORNIA DRAINAGE		
Colorado River Basin in Nevada	Flash flooding occurred in Las Vegas on the 16th. A 14-year old boy was drowned in a culvert. A construction site was flooded and mud was deposited on the airport runway and on some streets and sidewalks.	1	N.A.
Little Colorado River Basin	Extensive flooding occurred in Gallup, NM, on the 8th from the Rio Puerco and a flash flood damaged 8 homes along the Zuni Canyon Road in nearby Zuni. No stage or rainfall data is available.	0	N.A.
Gila River Basin	Heavy rains over the headwaters of the basin on the 8th-9th caused flooding along the Blue and San Francisco Rivers and flash flooding in Safford, AZ. The crest of the San Francisco River was estimated to be 2.5 feet over flood stage at Clifton, AZ. Damage in Greenlee and Graham Counties was estimated at $91,000 to public property and $275,000 to private. Urban flooding was reported in the Green Valley area on the 1st and 4th and the Tucson area on the 13th.	0	367
Lower Colorado River	Flash flooding was reported in several communities along the river during September. These included Parker, AZ, on the 8th and Topcock, AZ, and Needles, CA, on the 17th.	0	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

SEPTEMBER 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ALASKA		
Susitna, Kenai, and Copper River Basins	Urban flooding occurred in Anchorage on the 4th resulting from widespread heavy rains which caused bankfull stages on small streams from the Kenai to the Copper River. More than 1.7 inches in 24 hours was reported in Anchorage with some basement flooding and damage to streets under construction. Additional heavy rains on the 18th and 22d caused some streams in the same areas to reach near bankfull stages. Willow Creek on the Parks Highway reached a stage of 7.5 feet (Flood stage 7 feet), causing damage to a commercial camper facility.	0	N.A.
	PUERTO RICO-VIRGIN ISLANDS		
	A tropical depression, first detected by ship reports on the 11th, moved along a west to west-northwest track until by late afternoon of the 14th its center was just north of the Leeward Islands. Most of the rain associated with this disturbance was located mainly to the east and south of the center. As the storm continued westward the heavy rain area also spread westward across the Leewards and Virgin Islands. St. Kitts reported 4.12 inches in 24 hours. St. Martin reported a total of 9.88 inches.		
Virgin Islands	This depression intensified to tropical storm Eloise passing about 25 miles north of St. Thomas/St. John around noon on the 15th. Two-day totals for the 15th and 16th averaged generally 3 to 5 inches on these islands with no serious flooding from runoff reported. There are no streams and rivers on either of these two islands. At St. Croix, however, rainfall was generally heavier and ranged from a little over 4 to a little over 9 inches for the two days. The heavier rains fell along the northern and eastern portions of the island and sandbagging of some streams was necessary. A number of roads were impassable or in some cases completely inundated. Only minor damage was reported and in general the rains were quite beneficial, coming at a time of long term meteorological drought when most home cisterns were nearly empty. In some cases people had already run out of water and were buying it at rather high prices.	0	Minor
Puerto Rico	Puerto Rico suffered some of its heaviest flooding in recent years, especially in the southwestern sections. The first heavy rains began early in the morning on the 15th in the eastern portions and moved into the western area by early afternoon. By late evening most island rivers were swollen and continuing to rise. High intensity rains began over the Eastern Cordilleras on the next morning with the Pico del Este recording gage showing 4 inches during the hour ending at 2 a.m. About six hours later the Western Cordilleras began to receive this same heavy rain, and 3.7 inches in one hour ending at 9 a.m. was reported	34	60,000

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)

PUERTO RICO-VIRGIN ISLANDS-Cont'd

Adjuntas. Major flooding occurred on 21 rivers on the 16th, mostly concentrated in the western portions. Over 26 inches of rain was recorded over the southwestern slopes near Sabana Grande during the three day period of the 15th-17th. The most serious flooding occurred on the Culebinas, Anasco, Guanajibo, Rosario, Loco, Guayanilla, Bucana, Cerillos, Tallaboa, Portugues, and Patillas Rivers; all in the south and western portions of the island, and Rio Grande de Arecibo in the western interior.

The crest stages on the Tallaboa, Guayanilla, Anasco and Culebrinas Rivers were estimated by the U. S. Geological Survey to have a frequency greater than 100 years and crest stages on the Patillas, Cerrillos, Bucana, Portuguese, Guayanilla, Anasco and Culebrinas Rivers were the highest observed in 10 to 15 years of records on these streams. In addition to the 34 known dead, more than 275 people were injured, and more than 10,000 people were left homeless from this flooding.

FLOOD STAGE DATA

(All dates in September unless otherwise specified)

River and station	Flood stage	Above flood stages—dates From—	Above flood stages—dates To—	Crest Stage	Crest Date
	Ft			Ft	
ST. LAWRENCE DRAINAGE					
Lake Michigan					
Maple River:					
Maple Rapids, MI	7	4	6	U	U
Grand River:					
Eaton Rapids, MI	6	Aug 30	1	U	U
Little Muskegon:					
Morley, MI	U	Aug 30	1	5.92	Aug 31
Muskegon:					
Newaygo, MI	U	Aug 30	5	12.75	2
White:					
Whitehall, MI	U	Aug 30	2	7.46	1
Lake Huron					
Shiawassee:					
Owosso, MI	7	3	5	U	U
Tobacco:					
Beaverton, MI	U	U	U	11.45	2
Chippewa:					
Mt. Pleasant, MI	8	U	U	11.18	1
Tittapawassee:					
Midland, MI	24	U	U	27.08	2
Saginaw					
Saginaw, MI	19	6	6	U	U
Rouge:					
Detroit, MI	15	Aug 31	1	U	U
Genesee:					
Wellsville, NY	10	26	26	10.2	26
ATLANTIC SLOPE DRAINAGE					
Farmington:					
Simsbury, CT	12	27	29	14.5	27
Connecticut:					
Hartford, CT	16	27	29	17.9	28
Bodkin Rock, CT	8	27	29	9.1	28
Housatonic:					
Gaylordsville, CT	8	26	28	9.4	27
Stevenson, CT	12	26	28	17.7	27
Pompton:					
Pompton Plains, NJ	12	U	U	U	U
Ramapo:					
Pompton Lakes, NJ	2	25 27	25 27	2.00 2.04	25 27
Mahwah, NJ	8	25 27	26 27	8.54 8.84	25 27
Rockaway:					
Boonton, NJ	5	25	27	5.61	25
Saddle					
Lodi, NJ	5	25 26	25 27	5.41 7.08	25 27
Passaic:					
Chatham, NJ	6	25	Oct 1	7.97	26
Little Falls, NJ	7	25	Oct 1	8.94	28
Millstone:					
Blackwells Mills, NJ	7	24	29	13.47	U
Raritan:					
Manville, NJ	12	24	27	15.50	25
Round Brook, NJ	26	24	27	28.55	25

River and station	Flood stage	Above flood stages—dates From—	Above flood stages—dates To—	Crest Stage	Crest Date
	Ft.			Ft	
ATLANTIC SLOPE DRAINAGE-Cont'd					
Assunpink:					
Trenton, NJ	7	24 25 26	25 25 27	7.65 7.68 8.80	24 25 26
Rancocas:					
Pemberton, NJ	2.7	25	27	3.06	26
Cooper:					
Haddonfield, NJ	2.8	24	25	3.01	24
Chenango:					
Sherburne, NY	8	26	26	8.43	26
Greene, NY	13	U	U	12.77	27
Chenango, NY	10	U	U	11.10	26
Tioga:					
Lindley, NY	17	26	26	22.7	26
Chemung:					
Corning, NY	12	26	27	19.3	26
Elmira, NY	10	26	27	19.75	26
Chemung, NY	12	26	28	24.0	27
W Br Susquehanna:					
Cedar Run, PA	12	U	U	13.40	26
Lock Haven, PA	21	26	27	22.9	26
Jersey Shore, PA	26	U	U	28.52	26
Williamsport, PA	20	26	27	27.2	26
Milton, PA	19	25	28	29.5	27
Lewisburg, PA	18	26	28	27.62	27
Susquehanna:					
Conklin, NY	11	25 26	25 27	11.83 12.77	25 26
Binghamton, NY	14	26	27	E16.0	26
Vestal, NY	18	25	27	22.98	26
Towanda, PA	16	26	28	27.16	27
Wilkes Barre, PA	22	26	29	35.06	27
Bloomsburg, PA	19	U	U	E27.0	27
Danville, PA	20	26	29	27.52	27
Sunbury, PA	24	26	29	30.62	27
Harrisburg, PA	17	26	29	23.81	27
Monocacy:					
Frederick, MD	15	25	27	30.8	26
Rock Creek:					
Sherill Drive, DC	7	26	26	13.15	26
Potomac:					
Shepherdstown, WV	15	26	27	20.49	27
Pt. of Rocks, MD	16	26	28	24.35	26
Little Falls, VA	10	27	28	13.39	27
Wisconsin Ave, DC	7	27	27	10.41	27
Rivanna:					
Palmyra, VA	17	25	27	23.46	26
Appomattox:					
Farmville, VA	16	25	27	20.90	26
Mattoax, VA	21	26	31	25.58	29
Mattoaca, VA	10	26	Oct 1	12.00	26
James:					
Bremo Bluff, VA	19	23	25	22.80	25
Richmond, VA (Westham)	12	25	28	16.09	26
Richmond, VA (City L)	9	25	28	13.79	26
Neuse:					
Neuse, NC	14	27	29	16.0	28

FLOOD STAGE DATA

(All dates in September unless otherwise specified)

River and station	Flood stage	Above flood stages—dates From		To	Crest Stage		Date
	Ft				Ft		
ATLANTIC SLOPE DRAINAGE-Cont'd							
Neuse-Cont'd:							
Smithfield, NC	13		26	30	13.8		30
Goldsboro, NC	14		29	1/	14.6		30
Cape Fear:							
Huske Lock & Dam, NC	42		25	28	47.2		26
Elizabethtown, NC	24		25	29	24.9		27
Rocky:							
Norwood, NC	15		23	23	17.5		23
Lumber:							
Lumberton, NC	13		28	1/	[illegible].8	Oct	1
Pee Dee:							
Cheraw, SC	30		24	25	31.6		25
Pee Dee, SC	19		26	1/	21.2		30
Broad:							
Blair, SC	14		25	26	15.1		25
Reedy:							
Greenville, SC	9		18 23	18 23	15.0 10.0		18 23
Saluda:							
Pelzer, SC	9		18	18	10.0		18
Catawba:							
Lookout Shoals Reservoir, NC	100		25	27	100.2		25,27
EAST GULF OF MEXICO DRAINAGE							
Yellow:							
Milligan, FL	12		25	30	14.3		26
Coosa:							
Lower Martin Reservoir, AL	490		U	1	[illegible]		25
Missouri Basin							
James:							
Stratford, SD	14		B	[illegible]	A16.5	Aug	1
Stranger Creek:							
Easton, KS	15		11	11	16.5		11
Little Blue River:							
Lake City, MO	18		11	12	23.0		11
Lamine River:							
Clifton City, MO	19		12	12	20.45		12
Blackwater River:							
Valley City, MO	22		11	12	26.3		12
Missouri River:							
Williston, ND	20	Jun	10	8	24.8	Jul	11
St. Joseph, MO	17		4	5	17.5		4
Tennessee Basin							
French Broad:							
Rosman, NC	8		23	24	[illegible]		23
Blantyre, NC	17		24	25	18.2		24
South Chickamauga Creek:							
Chickamauga, TN	10		23	24	15.6		24
White Basin							
Cache:							
Patterson, AR	9	Aug	31	1/	[illegible]		[illegible]
Illinois:							
Tahlequah, OK	11		[illegible]	21	[illegible]		[illegible]

River and station	Flood stage	Above flood stages dates From	To	Crest Stage	Date
	Ft			Ft	

A See Previous Monthly Reports for Additional Crest Information.

B Flooding Continued from Previous Month(s) - Date Unknown.

RAWINSONDE DATA

Average monthly values

SEPTEMBER 1975

ALBANY, NY — 1013 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	[illegible]	11.2	10.2	23	1.2
1000	29	173	12.1	9.1	24	1.6
950	30	[illegible]	11.7	6.9	25	3.2
900	30	[illegible]	9.7	4.6	26	4.8
850	30	1,523	7.6	1.0	27	4.1
800	30	[illegible]	5.9	-2.4	25	7.7
750	30	[illegible]	4.5	-5.6	26	10.2
700	30	[illegible]	2.1	-11.5	26	12.9
650	30	3,704	-.7	-15.4	26	14.5
600	30	[illegible]	-4.1	-18.3	26	15.7
550	30	5,021	-7.8	-22.3	26	[illegible]
500	30	5,756	-12.7	-26.3	25	[illegible]
450	30	[illegible]	-17.6	-30.0	25	23.3
400	30	7,424	-23.5	-36.3	25	26.1
350	30	[illegible]	-30.1	-41.7	25	[illegible]
300	30	9,468	-37.8	-47.3	25	30.8
250	30	10,701	-46.4		26	31.9
200	30	12,155	-54.6		26	31.9
175	30	[illegible]	-57.2		26	29.8
150	30	13,975	-59.0		26	25.2
125	29	15,116	-61.8		26	21.9
100	29	16,497	-61.6		25	17.9
80	29	17,886	-59.2		26	[illegible]
70	27	[illegible]	-57.9		25	[illegible]
60	27	[illegible]	-56.4		25	3.3
50	27	20,861	-55.0		26	1.5
40	24	22,293	-53.4		23	.4
30	22	24,152	-51.2		07	2.0
25	20	25,333	-49.9		07	2.8
20	18	26,797	-47.8		05	3.0
15	10	28,737	-44.6			
10	5	31,428	-42.0			
7						

ALBUQUERQUE, NM — 842 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	[illegible]	13.5	7.9	08	1.5
1000						
950						
900						
850						
800	30	2,047	14.3	3.6	14	1.4
750	30	2,590	11.3	.5	27	1.0
700	30	3,163	7.6	-3.0	30	2.4
650	30	3,769	3.2	-5.9	31	3.0
600	30	4,413	-1.4	-10.6	30	3.9
550	30	5,101	-5.5	-16.9	28	4.1
500	30	5,843	-9.9	-23.6	28	4.9
450	30	6,648	-15.3	-26.4	28	6.6
400	30	7,527	-21.6	-35.0	28	7.6
350	30	8,500	-28.5	-40.9	27	8.7
300	30	9,583	-36.6	-45.6	28	10.7
250	30	10,822	-45.9		28	13.3
200	30	12,276	-55.0		28	16.2
175	30	13,121	-59.0		28	16.7
150	30	14,079	-63.0		29	14.0
125	30	15,190	-67.3		29	11.0
100	29	16,524	-69.1		29	6.7
80	29	17,866	-65.9		34	2.7
70	29	18,682	-63.4		03	1.3
60	28	19,634	-60.7		10	1.6
50	27	20,775	-58.8		08	4.4
40	25	22,185	-56.6		08	6.9
30	24	24,023	-53.5		09	8.8
25	24	25,203	-51.2		09	9.4
20	23	26,660	-49.3		09	10.0
15	20	28,562	-46.3		08	10.5
10	13	31,284	-42.7		09	12.4
7	5	33,647	-40.8			

AMARILLO, TX — 894 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	29	1,095	13.1	7.7	22	2.0
1000						
950						
900						
850	29	1,524	15.8	5.3	23	4.0
800	29	2,038	14.0	2.5	24	3.0
750	29	2,579	10.6	-.4	27	2.4
700	29	3,150	6.7	-4.1	31	2.6
650	29	3,754	2.7	-8.4	32	2.9
600	29	4,397	-1.3	-13.9	32	2.3
550	29	5,086	-5.5	-20.3	30	2.0
500	29	5,827	-10.3	-26.5	28	3.7
450	29	6,631	-15.5	-30.5	28	5.3
400	29	7,509	-21.9	-35.8	28	8.0
350	29	8,480	-29.2	-40.8	29	10.2
300	29	9,560	-37.6	-44.7	29	12.3
250	29	10,794	-46.7		29	14.6
200	29	12,244	-55.5		29	16.6
175	29	13,088	-59.2		29	16.0
150	29	14,046	-63.1		29	13.9
125	29	15,157	-66.8		29	12.0
100	29	16,499	-68.6		29	7.8
80	28	17,843	-65.5		30	2.1
70	28	18,662	-62.7		10	.6
60	28	19,617	-60.8		09	2.6
50	28	20,756	-58.6		09	4.9
40	28	22,166	-56.5		09	7.7
30	27	24,008	-53.0		09	9.8
25	26	25,188	-50.6		09	10.2
20	25	26,649	-48.6		09	10.7
15	21	28,567	-45.6		09	11.3
10	13	31,299	-41.1		09	11.6
7						

*** ANCHORAGE, AK — 1005 MB**

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	29	45	8.9	5.6	15	1.1
1000	24	113	8.8	5.5	12	1.2
950	29	521	7.9	1.9	15	3.5
900	29	965	5.0	-.3	15	4.6
850	29	1,429	1.6	-2.2	16	5.4
800	29	1,915	-1.6	-4.4	16	6.6
750	29	2,427	-4.5	-8.3	17	6.7
700	28	2,965	-7.7	-13.4	18	6.8
650	28	3,538	-10.9	-17.9	18	6.4
600	28	4,150	-14.4	-22.8	19	6.7
550	28	4,804	-18.6	-26.9	20	7.4
500	28	5,508	-23.3	-33.0	21	8.7
450	28	6,273	-27.8	-37.5	21	10.5
400	28	7,110	-33.4	-42.4	22	13.2
350	27	8,039	-39.7	-44.5	22	13.8
300	27	9,075	-46.5		22	14.9
250	27	10,269	-51.3		23	15.7
200	27	11,721	-50.5		23	14.6
175	27	12,594	-49.7		23	13.7
150	27	13,601	-50.6		24	12.5
125	27	14,788	-51.3		24	11.4
100	27	16,236	-51.7		24	9.6
80	27	17,681	-52.3		25	8.2
70	27	18,545	-52.4		25	7.1
60	27	19,540	-52.9		25	6.6
50	26	20,714	-53.3		26	5.5
40	26	22,150	-53.4		26	6.1
30	26	24,003	-53.1		27	5.3
25	26	25,179	-52.8		28	5.3
20	26	26,622	-52.2		28	5.6
15	22	28,479	-51.2		28	6.6
10	11	31,114	-48.9		28	7.9
7						

*** ANNETTE, AK — 1017 MB**

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	27	37	9.8	8.4	16	.9
1000	27	180	10.9	8.5	17	1.1
950	27	608	9.6	5.6	19	1.6
900	27	1,055	7.6	1.8	22	2.6
850	27	1,524	5.2	-1.2	24	4.1
800	27	2,018	3.0	-5.7	24	5.5
750	27	2,539	.9	-10.1	25	6.6
700	27	3,090	-2.2	-13.6	25	7.4
650	27	3,676	-5.0	-18.8	26	8.5
600	27	4,301	-8.5	-22.3	26	9.7
550	27	4,971	-12.5	-26.6	26	11.6
500	27	5,692	-17.2	-30.9	26	12.9
450	27	6,474	-22.8	-35.2	26	14.4
400	27	7,327	-28.7	-39.3	26	17.6
350	27	8,273	-35.6	-44.1	26	18.7
300	27	9,324	-43.5		26	20.9
250	27	10,530	-51.0		27	16.4
200	27	11,966	-55.4		27	15.0
175	27	12,816	-55.8		26	14.6
150	27	13,798	-55.7		27	14.1
125	27	14,957	-56.9		27	11.5
100	27	16,368	-57.3		27	10.2
80	27	17,779	-57.2		27	7.2
70	27	18,624	-57.1		28	6.6
60	27	19,601	-56.9		28	5.3
50	27	20,757	-56.4		29	4.7
40	27	22,177	-55.3		29	4.3
30	25	24,017	-53.8		31	4.3
25	25	25,191	-52.9		31	4.0
20	24	26,630	-51.6		31	4.3
15	21	28,494	-50.6		31	4.9
10	11	31,148	-47.7			
7						

ATHENS, GA — 989 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	246	17.8	16.2	36	.8
1000						
950	30	[illegible]	18.9	14.2	08	1.2
900	30	1,056	16.6	12.0	18	1.4
850	30	1,541	14.0	7.4	[illegible]	3.7
800	30	[illegible]	12.2	.3	22	5.2
750	30	2,591	9.8	-4.2	22	5.1
700	30	3,161	6.6	-8.5	22	8.5
650	30	3,765	3.1	-10.7	23	[illegible]
600	30	[illegible]	-.6	-15.2	23	7.3
550	30	[illegible]	-4.4	-20.5	23	7.9
500	30	5,845	-8.7	-23.7	23	9.8
450	30	6,654	-13.8	-29.0	24	10.0
400	30	7,538	-19.9	-34.8	24	11.0
350	30	8,518	-26.8	-40.5	24	12.5
300	30	[illegible]	-35.4	-48.1	24	14.6
250	30	10,853	-45.0		24	16.2
200	30	12,310	-55.5		25	16.2
175	30	13,151	-60.6		25	15.9
150	30	14,100	-65.0		25	13.5
125	30	15,201	-69.0		25	10.3
100	30	16,534	-68.9		25	6.1
80	30	17,873	-66.3		25	1.5
70	30	18,689	-63.0		10	1.3
60	30	19,642	-61.2		09	4.0
50	30	20,780	-58.9		08	7.1
40	29	22,187	-56.4		09	9.7
30	27	24,026	-53.3		09	10.9
25	26	25,206	-51.1		09	11.3
20	25	26,667	-48.3		09	12.0
15	20	28,578	-46.0		09	13.7
10	8	31,327	-42.7			
7						

*** BARROW, AK — 1015 MB**

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	29	8	-4.8	-5.8	30	1.1
1000	29	123	-5.0	-7.2	31	.9
950	29	527	-4.8	-8.1	28	2.2
900	29	952	-5.5	-12.7	29	2.3
850	29	1,400	-6.7	-16.1	29	2.1
800	29	1,872	-8.5	-16.6	29	2.8
750	29	2,370	-10.9	-20.8	28	3.3
700	29	2,898	-13.6	-24.2	28	3.7
650	29	3,458	-16.5	-26.8	28	4.5
600	29	4,056	-19.8	-29.9	28	5.2
550	29	4,697	-23.5	-34.6	28	6.3
500	29	5,388	-27.8	-39.0	27	7.1
450	29	6,137	-33.0	-42.8	27	7.7
400	29	6,956	-38.8	-46.0	27	8.2
350	29	7,863	-44.8		27	8.5
300	29	8,878	-50.9		26	10.7
250	29	10,059	-52.1		26	11.1
200	29	11,517	-48.3		26	10.7
175	29	12,396	-48.2		26	10.3
150	29	[illegible]	-48.5		26	9.9
125	28	14,611	-49.2		26	9.8
100	28	16,073	-49.6		26	9.5
80	27	17,529	-50.3		26	8.8
70	27	18,399	-50.9		26	8.9
60	27	19,402	-51.3		27	8.0
50	27	20,584	-52.2		27	7.4
40	27	22,028	-52.4		27	7.5
30	23	[illegible]	-52.7		27	6.6
25	20	25,066	-52.8		27	7.8
20	12	26,519	-52.9		26	7.1
15						
10						
7						

BARTER ISLAND, AK — 1013 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	15	-4.0	-5.2	05	.4
1000	28	124	-3.6	-5.2	30	.3
950	30	523	-2.7	-7.5	27	2.1
900	30	952	-3.1	-8.6	26	3.1
850	30	1,403	-5.3	-11.1	26	4.9
800	30	1,877	-7.2	-13.8	26	6.3
750	30	2,378	-9.7	-16.9	26	7.3
700	30	2,908	-12.3	-19.7	26	7.9
650	30	3,472	-15.1	-21.7	26	8.4
600	30	4,073	-18.4	-26.8	26	9.4
550	30	4,718	-22.3	-30.7	26	10.6
500	30	5,412	-26.7	-34.4	26	12.2
450	30	6,165	-31.8	-39.9	26	13.6
400	30	6,988	-37.5	-43.5	26	15.2
350	30	7,900	-43.7		26	17.5
300	30	8,919	-49.8		26	19.6
250	30	10,103	-52.1		26	19.3
200	30	11,559	-48.8		26	15.9
175	30	12,437	-48.7		26	15.2
150	30	13,450	-48.9		26	13.6
125	30	14,647	-49.4		26	12.4
100	30	16,107	-50.1		26	11.4
80	30	17,563	-50.8		26	10.6
70	29	18,431	-51.1		27	9.4
60	29	19,433	-51.6		27	8.7
50	29	20,615	-52.2		27	8.8
40	29	22,058	-52.6		28	7.6
30	28	23,915	-52.8		28	7.1
25	27	25,089	-53.0		28	7.4
20	26	26,540	-52.7		28	7.4
15	23	28,437	-51.3		29	6.6
10	14	31,083	-49.2		28	9.4
7	6	33,472	-44.8			

BETHEL, AK — 1003 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	39	4.6	3.4	02	1.3
1000	21	97	5.0	2.8	02	2.0
950	30	484	4.7	2.1	09	2.1
900	30	923	2.5	-.5	14	2.0
850	30	1,384	-.1	-2.9	17	2.4
800	30	1,867	-2.7	-6.8	18	2.6
750	30	2,377	-5.4	-10.2	18	3.1
700	30	2,916	-8.5	-14.2	19	3.8
650	30	3,488	-11.4	-18.7	18	3.6
600	30	4,097	-15.0	-23.4	19	4.1
550	30	4,751	-18.9	-28.3	20	3.8
500	30	5,454	-23.6	-33.0	21	3.3
450	30	6,216	-28.9	-37.1	22	3.0
400	30	7,049	-34.7	-42.9	22	4.0
350	30	7,971	-41.3	-46.2	22	4.4
300	29	9,007	-47.5		22	5.7
250	29	10,201	-50.4		23	6.9
200	29	11,660	-49.3		23	6.9
175	29	12,536	-49.3		23	7.8
150	29	13,546	-49.5		24	7.0
125	29	14,739	-50.2		23	7.3
100	29	16,194	-51.0		24	6.8
80	29	17,645	-51.4		24	6.0
70	29	18,512	-51.7		24	5.5
60	29	19,511	-52.2		24	5.4
50	28	20,692	-52.5		25	[illegible]
40	28	22,133	-52.7		26	4.7
30	25	23,992	-52.7		27	5.0
25	25	25,170	-52.5		27	5.1
20	22	26,629	-51.5		28	5.4
15	18	28,495	-50.7		27	6.4
10	7	31,165	-47.5			
7						

*** BISMARCK, ND — 958 MB**

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	503	7.2	3.5	32	1.3
1000						
950	27	586	8.8	4.1	33	1.6
900	30	1,024	10.6	3.0	30	3.7
850	30	1,499	8.7	-.9	31	5.9
800	30	1,998	6.5	-5.3	31	6.8
750	30	2,525	3.8	-8.6	31	7.5
700	30	3,083	.7	-12.1	31	8.4
650	30	3,675	-2.5	-15.4	30	9.3
600	30	4,305	-6.4	-20.3	30	9.9
550	30	4,980	-10.8	-23.6	30	11.4
500	30	5,705	-15.7	-29.3	30	13.0
450	30	6,492	-21.2	-34.7	30	14.6
400	30	7,350	-27.8	-41.2	30	15.5
350	30	8,298	-34.9	-47.2	30	16.2
300	30	9,353	-43.2		30	18.1
250	30	10,559	-51.0		30	19.2
200	30	11,996	-54.9		30	19.7
175	30	12,848	-55.5		29	18.4
150	30	13,829	-56.7		29	17.2
125	30	14,980	-58.5		29	15.2
100	30	16,382	-58.9		30	10.8
80	30	17,784	-58.2		29	7.8
70	30	18,627	-57.5		30	5.6
60	30	19,603	-56.6		29	4.7
50	30	20,763	-55.1		29	3.8
40	30	22,191	-54.1		28	3.2
30	27	24,056	-50.8		27	3.9
25	24	25,238	-49.8		27	4.5
20	23	26,701	-48.3		27	4.3
15	18	28,609	-46.3		27	4.3
10	11	31,262	-44.5			
7						

BOISE, ID — 918 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	29	871	11.4	-1.3	14	1.9
1000						
950						
900	29	[illegible]	16.5	.4	14	1.1
850	29	1,523	17.1	-2.3	35	.9
800	29	2,037	13.8	-4.7	[illegible]	1.3
750	29	2,577	10.1	-7.4	29	[illegible]
700	29	3,146	6.4	-10.9	28	3.7
650	29	[illegible]	2.2	-13.5	26	4.4
600	29	4,389	-2.3	-16.8	27	[illegible]
550	29	5,074	-7.1	-22.1	27	6.3
500	29	5,610	-12.0	-28.4	27	6.7
450	29	[illegible]	-17.7	-33.5	27	6.9
400	28	7,479	-24.4	-39.9	27	[illegible]
350	29	8,440	-31.9	-45.7	27	7.9
300	29	9,507	-40.6	-51.4	28	9.2
250	29	10,724	-49.6		27	9.8
200	28	12,160	-56.7		27	12.6
175	27	13,002	-58.5		27	12.7
150	27	13,967	-60.5		27	13.9
125	26	15,099	-62.4		27	11.9
100	26	16,471	-63.7		29	9.1
80	26	17,842	-62.7		30	[illegible]
70	26	[illegible]	-61.5		31	3.7
60	26	19,627	-60.2		32	2.6
50	26	20,771	-57.9		[illegible]	1.9
40	26	22,185	-55.9		31	1.7
30	26	[illegible]	-52.7		[illegible]	2.2
25	26	25,211	-51.2		[illegible]	1.0
20	24	[illegible]	-49.3		31	.7
15	21	[illegible]	-47.3		36	[illegible]
10	17	[illegible]	-44.1		02	.2
7	9	33,703	-41.4			

BOOTHVILLE, LA — 1016 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	29	1	23.6	20.8	03	1.5
1000	29	140	23.5	19.2	05	2.1
950	29	587	20.5	16.4	09	2.1
900	29	1,053	17.8	12.8	10	1.2
850	29	1,541	15.4	8.1	12	.9
800	29	2,054	[illegible]	4.1	13	1.2
750	29	2,594	10.5	.6	15	.7
700	29	3,166	7.3	-3.0	18	.6
650	29	3,773	3.9	-5.2	20	1.3
600	29	4,420	.4	-9.9	24	2.2
550	29	5,113	-3.5	-15.0	23	3.2
500	29	5,861	-8.2	-20.0	23	3.4
450	29	6,671	-13.3	-25.5	23	4.0
400	29	[illegible]	-19.3	-32.0	24	5.6
350	29	8,541	-26.0	-38.2	24	7.2
300	29	9,635	-34.7	-46.5	24	8.3
250	29	10,883	-44.3		24	9.0
200	29	12,342	-55.4		25	10.3
175	29	13,183	-61.8		25	10.0
150	29	14,130	-65.8		25	7.4
125	29	15,223	-71.1		26	5.7
100	29	16,539	-71.6		31	.9
80	28	17,864	-69.1		08	4.2
70	28	18,669	-66.1		09	5.9
60	26	19,611	-63.3		08	7.4
50	27	20,740	-60.4		09	11.8
40	25	22,140	-57.4		09	13.5
30	25	23,969	-54.6		09	15.3
25	25	25,145	-51.7		09	16.0
20	25	26,603	-48.6		09	16.0
15	22	28,507	-45.9		09	17.5
10	11	31,252	-40.7			
7						

*** BROWNSVILLE, TX — 1014 MB**

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	7	21.9	20.3	01	.4
1000	30	131	24.5	21.2	10	.6
950	30	580	21.7	18.1	14	2.7
900	30	1,048	18.8	14.0	13	2.8
850	30	1,537	15.5	9.6	11	3.0
800	30	2,050	12.6	5.3	10	2.9
750	30	2,590	10.2	-1.1	10	2.5
700	30	3,162	7.5	-4.5	09	1.8
650	30	3,769	4.6	-9.4	06	1.6
600	30	4,417	1.2	-14.1	05	.9
550	30	5,112	-3.0	-17.4	32	.5
500	30	5,861	-7.4	-22.2	28	1.6
450	30	6,674	-12.5	-26.7	28	2.3
400	30	7,563	-18.3	-31.3	27	3.7
350	30	8,550	-25.3	-37.0	27	4.9
300	30	9,647	-33.6	-45.7	27	5.6
250	30	10,901	-43.2		27	6.3
200	29	12,370	-54.5		28	7.1
175	28	13,212	-60.7		28	6.9
150	28	14,157	-67.1		29	6.2
125	28	15,242	-72.7		30	3.0
100	28	16,543	-74.2		03	2.2
80	27	17,857	-69.3		07	7.0
70	26	18,659	-67.3		09	10.0
60	26	19,595	-64.7		10	10.6
50	24	20,721	-60.9		09	12.6
40	23	22,117	-58.0		09	14.9
30	23	23,951	-53.3		09	17.3
25	23	25,131	-51.3		09	16.5
20	19	26,586	-48.0		09	18.3
15	17	28,502	-44.4		09	21.9
10						
7						

BUFFALO, NY — 993 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	218	11.8	9.4	19	1.4
1000						
950	30	592	11.9	7.9	25	4.6
900	30	1,044	9.6	5.1	26	6.2
850	30	1,516	6.9	2.4	26	7.3
800	30	2,013	4.6	-1.5	26	8.3
750	30	2,537	2.4	-5.6	26	9.6
700	30	3,093	.4	-12.6	26	11.9
650	30	3,686	-1.7	-16.1	26	13.5
600	30	4,319	-4.9	-20.0	26	15.8
550	30	4,998	-9.0	-23.9	26	17.8
500	30	5,730	-13.8	-27.9	25	20.5
450	30	6,523	-18.7	-33.5	25	21.7
400	30	7,391	-24.8	-37.8	25	23.7
350	30	8,352	-31.9	-43.6	25	26.2
300	30	9,421	-39.4	-49.1	25	28.7
250	30	10,648	-47.2		25	32.1
200	30	12,103	-53.7		26	29.2
175	30	12,956	-56.4		26	26.7
150	30	13,930	-58.2		26	23.9
125	30	15,070	-60.8		26	18.8
100	30	16,459	-60.2		26	14.2
80	30	17,856	-58.7		26	8.0
70	29	18,695	-57.3		26	6.9
60	29	19,673	-56.0		26	5.0
50	28	20,836	-55.1		25	2.0
40	27	22,263	-53.3		28	1.0
30	26	24,121	-51.1		07	1.2
25	24	25,309	-49.4		07	2.3
20	21	26,774	-48.0		06	1.8
15	17	28,672	-45.3		36	.7
10						
7						

CAPE HATTERAS, NC — 1018 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	4	22.8	20.3	06	.9
1000	30	163	23.1	18.6	08	1.1
950	30	610	20.2	16.0	14	1.0
900	30	1,075	17.4	12.5	23	1.6
850	30	1,562	15.1	9.3	25	3.6
800	30	2,075	12.7	5.0	24	5.1
750	30	2,614	9.8	1.1	24	5.7
700	30	3,185	6.8	-3.9	23	6.5
650	30	3,791	3.4	-6.4	23	6.7
600	30	4,436	.1	-10.5	24	7.7
550	30	5,129	-3.7	-16.8	24	8.3
500	29	5,876	-8.2	-22.3	24	9.6
450	29	6,686	-13.3	-27.2	24	10.1
400	29	7,573	-19.1	-31.7	25	11.5
350	28	8,558	-26.0	-38.0	25	11.2
300	28	9,652	-34.5	-46.6	25	11.3
250	28	10,900	-44.5		25	12.7
200	28	12,356	-56.1		27	14.6
175	28	13,195	-61.2		27	13.0
150	28	14,142	-65.4		27	10.7
125	28	15,242	-68.7		26	8.4
100	28	16,577	-68.9		26	5.6
80	28	17,922	-65.5		24	1.4
70	28	18,742	-62.0		09	1.5
60	28	19,698	-60.6		08	3.8
50	28	20,840	-58.0		08	6.6
40	28	22,253	-56.0		09	8.9
30	28	24,099	-52.3		09	10.5
25	26	25,283	-50.2		09	10.2
20	25	26,749	-47.3		09	11.0
15	23	28,666	-45.2		09	10.7
10	8	31,382	-41.3			
7						

RAWINSONDE DATA

Average monthly values

SEPTEMBER 1975

* **CARIBOU, ME**
995 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	191	9.2	[illegible]	22	[illegible]
1000	[illegible]	[illegible]	7.1	[illegible]		
950	30	574	9.9	5.0	25	[illegible]
900	30	[illegible]	7.8	2.9	[illegible]	[illegible]
850	30	[illegible]	5.5	[illegible]	26	[illegible]
800	30	1,986	3.6	-3.4	27	[illegible]
750	30	2,508	1.2	[illegible]	26	[illegible]
700	30	[illegible]	-1.5	[illegible]	26	[illegible]
650	30	[illegible]	-4.2	[illegible]	26	[illegible]
600	30	4,277	-7.1	[illegible]	25	[illegible]
550	30	4,951	[illegible]	[illegible]	25	[illegible]
500	30	5,678	-15.2	[illegible]	25	[illegible]
450	30	6,467	-20.3	[illegible]	25	[illegible]
400	30	7,329	-26.3	[illegible]	25	[illegible]
350	[illegible]	8,287	-33.1	-42.6	25	[illegible]
300	29	9,351	-40.5	-45.7	25	[illegible]
250	28	10,582	-47.7		25	[illegible]
200	28	12,034	-53.9		[illegible]	[illegible]
175	[illegible]	12,897	-55.3		[illegible]	[illegible]
150	[illegible]	13,875	-57.4		26	[illegible]
125	[illegible]	15,023	-58.8		26	[illegible]
100	[illegible]	16,424	-58.5		26	[illegible]
80	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
70	[illegible]	[illegible]	-56.5		[illegible]	[illegible]
60	[illegible]	[illegible]	-55.7		27	7.1
50	[illegible]	20,817	-55.0		25	[illegible]
40	[illegible]	22,247	-53.8		28	4.3
30	[illegible]	[illegible]	-51.9		[illegible]	[illegible]
25	[illegible]	25,282	-50.7		[illegible]	[illegible]
20	[illegible]	26,747	[illegible]		[illegible]	[illegible]
15	[illegible]	28,652	-46.9		26	[illegible]
10						
7						

CENTREVILLE, AL
[illegible] MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	[illegible]	[illegible]	16.4	[illegible]	[illegible]	[illegible]
1000	[illegible]	169	[illegible]	14.1	[illegible]	[illegible]
950	[illegible]	593	[illegible]	12.7	[illegible]	[illegible]
900	[illegible]	1,055	[illegible]	10.8	[illegible]	[illegible]
850	[illegible]	1,540	[illegible]	[illegible]	[illegible]	[illegible]
800	[illegible]	2,050	[illegible]	[illegible]	[illegible]	[illegible]
750	[illegible]	2,589	[illegible]	[illegible]	[illegible]	[illegible]
700	[illegible]	3,158	[illegible]	-5.8	[illegible]	2.5
650	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.6
600	29	4,404	-.7	[illegible]	[illegible]	4.8
550	[illegible]	5,094	[illegible]	[illegible]	[illegible]	5.4
500	[illegible]	5,838	[illegible]	[illegible]	[illegible]	[illegible]
450	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8.5
400	[illegible]	7,529	[illegible]	[illegible]	[illegible]	10.4
350	[illegible]	8,508	[illegible]	[illegible]	[illegible]	12.6
300	[illegible]	9,598	[illegible]	-48.5	[illegible]	14.4
250	29	10,845	[illegible]		[illegible]	15.4
200	[illegible]	12,304	[illegible]		[illegible]	16.5
175	[illegible]	[illegible]	[illegible]		[illegible]	16.2
150	28	14,099	[illegible]		[illegible]	14.5
125	28	15,201	[illegible]		[illegible]	10.3
100	[illegible]	16,535	[illegible]		[illegible]	5.8
80	[illegible]	17,875	[illegible]		[illegible]	.3
70	27	18,690	-63.3		[illegible]	[illegible]
60	[illegible]	19,642	-61.1		[illegible]	4.5
50	26	20,779	[illegible]		[illegible]	[illegible]
40	26	22,187	[illegible]		09	[illegible]
30	26	24,028	-53.3		[illegible]	11.5
25	[illegible]	25,203	[illegible]		[illegible]	12.3
20	23	26,664	[illegible]		[illegible]	[illegible]
15	22	28,567	-45.6		09	[illegible]
10	13	31,290	-41.7		[illegible]	14.4
7	5	33,771	-38.7			

CHARLESTON, SC
[illegible] MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	[illegible]	[illegible]	[illegible]	19.1	[illegible]	1.5
1000	[illegible]	[illegible]	[illegible]	19.6	[illegible]	[illegible]
950	[illegible]	597	[illegible]	17.7	[illegible]	[illegible]
900	30	1,064	[illegible]	14.4	[illegible]	[illegible]
850	[illegible]	1,554	[illegible]	[illegible]	[illegible]	[illegible]
800	[illegible]	2,067	[illegible]	7.3	[illegible]	[illegible]
750	[illegible]	2,608	[illegible]	[illegible]	[illegible]	[illegible]
700	[illegible]	3,179	[illegible]	[illegible]	[illegible]	[illegible]
650	[illegible]	3,786	[illegible]	-6.3	[illegible]	4.7
600	[illegible]	4,432	[illegible]	[illegible]	[illegible]	5.8
550	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6.1
500	[illegible]	5,874	[illegible]	[illegible]	[illegible]	[illegible]
450	[illegible]	6,686	[illegible]	[illegible]	[illegible]	[illegible]
400	29	7,574	[illegible]	[illegible]	[illegible]	[illegible]
350	29	8,558	[illegible]	[illegible]	24	[illegible]
300	29	[illegible]	[illegible]	[illegible]	24	[illegible]
250	29	10,903	[illegible]		[illegible]	[illegible]
200	[illegible]	12,361	[illegible]		[illegible]	[illegible]
175	[illegible]	13,200	[illegible]		27	[illegible]
150	[illegible]	14,146	-66.1		[illegible]	[illegible]
125	29	15,240	[illegible]		[illegible]	[illegible]
100	[illegible]	16,564	[illegible]		25	3.2
80	[illegible]	17,900	[illegible]		[illegible]	.4
70	28	18,714	[illegible]		[illegible]	[illegible]
60	28	19,666	[illegible]		08	[illegible]
50	28	20,805	[illegible]		[illegible]	9.2
40	28	22,215	[illegible]		[illegible]	11.1
30	[illegible]	24,060	[illegible]		[illegible]	11.8
25	[illegible]	25,243	[illegible]		09	[illegible]
20	[illegible]	26,709	[illegible]		[illegible]	13.7
15	[illegible]	28,624	[illegible]		[illegible]	13.3
10	7	[illegible]	[illegible]			
7						

CHATHAM, MA
[illegible] MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1000	[illegible]	[illegible]	15.2	[illegible]	[illegible]	1.1
950	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
900	[illegible]	[illegible]	[illegible]	[illegible]	25	[illegible]
850	[illegible]	1,533	[illegible]	[illegible]	25	[illegible]
800	[illegible]	[illegible]	[illegible]	[illegible]	25	[illegible]
750	[illegible]	[illegible]	[illegible]	-5.3	25	[illegible]
700	[illegible]	[illegible]	[illegible]	-9.0	[illegible]	[illegible]
650	[illegible]	[illegible]	[illegible]	-11.7	[illegible]	[illegible]
600	[illegible]	[illegible]	[illegible]	-14.9	[illegible]	[illegible]
550	[illegible]	[illegible]	-6.2	-19.3	[illegible]	[illegible]
500	[illegible]	5,798	-10.9	-23.6	[illegible]	17.4
450	[illegible]	[illegible]	-15.9	-28.8	[illegible]	[illegible]
400	[illegible]	7,478	-21.9	-34.8	25	[illegible]
350	30	8,450	-28.9	-40.1	[illegible]	[illegible]
300	30	9,532	-37.0	[illegible]	25	[illegible]
250	[illegible]	[illegible]	-46.2		25	[illegible]
200	[illegible]	[illegible]	-55.5		26	[illegible]
175	30	[illegible]	-58.9		26	[illegible]
150	[illegible]	[illegible]	-62.2		26	23.2
125	[illegible]	[illegible]	-63.9		26	18.4
100	29	[illegible]	-63.9		25	12.8
80	[illegible]	[illegible]	[illegible]		25	[illegible]
70	28	18,725	[illegible]		25	5.8
60	28	19,695	[illegible]		25	3.7
50	28	[illegible]	[illegible]		25	[illegible]
40	[illegible]	[illegible]	-54.3		05	[illegible]
30	26	[illegible]	[illegible]		08	[illegible]
25	[illegible]	[illegible]	[illegible]		08	[illegible]
20	[illegible]	[illegible]	-49.1		07	[illegible]
15	12	28,651	-46.4		09	[illegible]
10						
7						

* **[illegible], TX**
[illegible] MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1000	[illegible]	115	[illegible]	4.5	[illegible]	[illegible]
950	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
900	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
850	[illegible]	[illegible]	[illegible]	-2.8	[illegible]	[illegible]
800	[illegible]	1,876	[illegible]	[illegible]	[illegible]	[illegible]
750	[illegible]	2,389	-3.9	[illegible]	[illegible]	[illegible]
700	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
650	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
600	28	4,121	[illegible]	[illegible]	[illegible]	[illegible]
550	[illegible]	4,778	[illegible]	[illegible]	[illegible]	[illegible]
500	[illegible]	5,485	-22.5	[illegible]	[illegible]	[illegible]
450	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
400	[illegible]	7,088	[illegible]	[illegible]	[illegible]	[illegible]
350	[illegible]	8,016	[illegible]	[illegible]	[illegible]	[illegible]
300	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
250	28	10,262	[illegible]		[illegible]	[illegible]
200	27	11,723	[illegible]		[illegible]	[illegible]
175	27	12,600	[illegible]		[illegible]	[illegible]
150	27	13,610	[illegible]		[illegible]	[illegible]
125	25	14,791	[illegible]		[illegible]	[illegible]
100	25	16,238	[illegible]		[illegible]	[illegible]
80	[illegible]	17,680	[illegible]		[illegible]	[illegible]
70	[illegible]	18,544	[illegible]		[illegible]	[illegible]
60	[illegible]	19,533	[illegible]		[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
40	22	22,149	[illegible]		[illegible]	[illegible]
30	[illegible]	24,006	[illegible]		[illegible]	[illegible]
25	[illegible]	25,187	[illegible]		[illegible]	[illegible]
20	17	26,623	[illegible]		[illegible]	[illegible]
15	15	28,501	[illegible]		[illegible]	[illegible]
10	5	31,180	[illegible]			
7						

DAYTON, OH
985 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	[illegible]	12.2	[illegible]	[illegible]	[illegible]
1000						
950	30	[illegible]	[illegible]	[illegible]	26	[illegible]
900	30	1,055	[illegible]	5.8	28	[illegible]
850	30	1,532	[illegible]	.1	[illegible]	[illegible]
800	30	[illegible]	[illegible]	-1.4	27	[illegible]
750	30	[illegible]	5.6	-6.9	[illegible]	[illegible]
700	30	3,125	2.8	-9.4	26	[illegible]
650	30	3,722	.1	-13.9	26	[illegible]
600	30	4,360	-3.3	-18.0	26	[illegible]
550	30	5,043	-7.1	-22.1	26	[illegible]
500	30	5,780	-12.0	-27.8	26	[illegible]
450	30	6,578	-17.1	-31.7	25	[illegible]
400	30	7,451	-23.4	-38.7	25	[illegible]
350	30	8,417	[illegible]	-44.6	25	[illegible]
300	29	9,492	-38.3	-48.9	25	[illegible]
250	29	[illegible]	-46.8		25	[illegible]
200	29	12,175	[illegible]		25	[illegible]
175	[illegible]	13,023	[illegible]		25	[illegible]
150	[illegible]	[illegible]	[illegible]		26	[illegible]
125	[illegible]	15,118	[illegible]		25	[illegible]
100	[illegible]	16,488	[illegible]		25	[illegible]
80	[illegible]	17,865	[illegible]		26	7.3
70	[illegible]	18,698	-59.3		26	[illegible]
60	[illegible]	19,668	[illegible]		25	[illegible]
50	28	20,825	[illegible]		[illegible]	[illegible]
40	[illegible]	22,250	[illegible]		[illegible]	[illegible]
30	27	24,103	[illegible]		09	[illegible]
25	[illegible]	25,289	[illegible]		08	[illegible]
20	[illegible]	26,758	-48.1		09	[illegible]
15	[illegible]	28,665	-45.4		08	[illegible]
10	[illegible]	31,365	-42.8		[illegible]	[illegible]
7						

DEL RIO, TX
[illegible] MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	[illegible]	314	19.6	16.8	[illegible]	1.9
1000						
950	[illegible]	580	20.0	15.2	14	4.1
900	[illegible]	1,047	18.6	11.8	16	[illegible]
850	[illegible]	1,536	16.1	8.5	15	4.8
800	[illegible]	2,050	13.8	3.5	14	[illegible]
750	[illegible]	2,592	10.6	.1	12	[illegible]
700	[illegible]	3,163	[illegible]	-4.5	06	1.3
650	[illegible]	3,769	3.7	-8.2	[illegible]	[illegible]
600	[illegible]	4,414	-.4	-12.8	35	[illegible]
550	30	5,105	-4.3	-18.1	32	[illegible]
500	30	5,851	-8.6	-24.0	31	[illegible]
450	[illegible]	6,660	-13.6	-29.3	31	3.3
400	[illegible]	7,545	-19.8	-36.5	[illegible]	3.9
350	29	8,526	-26.6	-41.9	[illegible]	6.0
300	[illegible]	9,618	-34.8	-47.7	29	8.7
250	[illegible]	10,867	-44.2		29	[illegible]
200	29	12,330	-54.3		29	11.8
175	[illegible]	13,175	-59.8		29	[illegible]
150	29	14,125	-65.3		29	[illegible]
125	[illegible]	15,222	-70.1		29	7.5
100	28	16,537	-72.9		[illegible]	[illegible]
80	28	17,856	-69.4		05	3.9
70	28	[illegible]	-65.9		09	6.2
60	28	19,600	-63.9		10	7.2
50	28	20,726	-61.0		[illegible]	[illegible]
40	28	22,121	-58.2		[illegible]	12.8
30	27	23,951	-54.2		09	14.9
25	27	25,128	-51.6		09	15.7
20	27	26,585	-48.9		[illegible]	16.7
15	25	28,486	-45.6		[illegible]	17.1
10	13	31,195	-41.6		[illegible]	18.9
7						

DENVER, CO
[illegible] MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	1,611	[illegible]	.7	[illegible]	.9
1000						
950						
900						
850						
800	30	2,041	[illegible]	-.8	29	1.6
750	30	2,580	9.8	[illegible]	31	2.0
700	30	3,149	[illegible]	-6.7	30	3.6
650	30	3,753	[illegible]	-10.3	31	[illegible]
600	[illegible]	4,394	[illegible]	-14.0	[illegible]	6.0
550	[illegible]	5,078	-7.6	-18.9	[illegible]	7.5
500	[illegible]	5,813	-11.8	-25.1	30	8.4
450	[illegible]	[illegible]	[illegible]	-30.9	[illegible]	9.2
400	30	7,485	[illegible]	-37.6	[illegible]	10.3
350	30	8,449	[illegible]	-44.2	29	11.8
300	30	9,519	-39.6	-48.5	[illegible]	14.4
250	30	10,742	-48.5		29	17.7
200	[illegible]	12,186	-55.6		29	20.2
175	30	13,031	-58.4		29	20.7
150	[illegible]	13,995	-61.1		28	16.4
125	30	15,120	[illegible]		29	13.9
100	30	16,481	-65.0		29	8.6
80	30	17,845	[illegible]		30	4.2
70	[illegible]	[illegible]	-61.2		30	2.6
60	28	[illegible]	[illegible]		30	1.2
50	27	20,783	[illegible]		[illegible]	1.1
40	[illegible]	22,209	[illegible]		08	2.2
30	24	24,063	[illegible]		[illegible]	5.0
25	[illegible]	[illegible]	[illegible]		09	5.0
20	21	26,719	[illegible]		[illegible]	[illegible]
15	[illegible]	28,628	[illegible]		[illegible]	6.1
10	6	31,381	[illegible]			
7						

DODGE CITY, KS
928 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	[illegible]	[illegible]	[illegible]	19	1.5
1000						
950						
900	30	[illegible]	15.4	[illegible]	22	3.4
850	[illegible]	1,534	14.4	[illegible]	[illegible]	[illegible]
800	[illegible]	2,044	12.5	-2.9	26	[illegible]
750	30	2,583	9.6	-4.9	27	4.2
700	[illegible]	3,151	5.8	-7.3	28	[illegible]
650	[illegible]	3,754	1.9	[illegible]	29	4.3
600	[illegible]	4,395	[illegible]	-14.9	29	5.0
550	30	[illegible]	-6.7	[illegible]	28	[illegible]
500	30	5,818	-11.8	[illegible]	28	7.8
450	[illegible]	6,616	-17.2	-30.7	28	[illegible]
400	[illegible]	7,489	[illegible]	[illegible]	28	[illegible]
350	30	8,454	[illegible]	-43.5	28	12.3
300	30	9,525	-39.4	[illegible]	28	14.9
250	30	10,749	[illegible]		[illegible]	18.5
200	[illegible]	12,194	-55.5		[illegible]	21.3
175	30	13,039	-58.7		29	19.5
150	30	14,000	-61.8		28	16.7
125	[illegible]	15,120	-64.9		28	13.3
100	[illegible]	16,475	-66.1		28	9.1
80	[illegible]	17,832	-64.3		29	3.8
70	[illegible]	18,655	-61.8		30	1.5
60	[illegible]	19,614	-60.0		[illegible]	.6
50	[illegible]	20,758	[illegible]		[illegible]	[illegible]
40	[illegible]	22,171	-55.7		09	[illegible]
30	[illegible]	[illegible]	[illegible]		09	[illegible]
25	[illegible]	25,193	-51.1		[illegible]	7.5
20	[illegible]	[illegible]	[illegible]		[illegible]	7.4
15	[illegible]	28,542	-46.7		[illegible]	[illegible]
10	[illegible]	31,242	-43.1		09	[illegible]
7	[illegible]	33,665	[illegible]			

EL PASO, TX
884 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	1,193	[illegible]	9.7	[illegible]	[illegible]
1000						
950						
900						
850	[illegible]	1,529	[illegible]	6.0	[illegible]	[illegible]
800	[illegible]	2,047	15.6	3.2	[illegible]	[illegible]
750	[illegible]	2,592	12.3	.7	[illegible]	.5
700	[illegible]	3,166	[illegible]	-2.7	[illegible]	.9
650	30	[illegible]	[illegible]	-5.5	[illegible]	.7
600	[illegible]	4,419	[illegible]	[illegible]	[illegible]	[illegible]
550	30	5,110	[illegible]	[illegible]	32	[illegible]
500	30	5,853	[illegible]	[illegible]	[illegible]	[illegible]
450	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
400	[illegible]	7,543	-20.3	[illegible]	[illegible]	[illegible]
350	[illegible]	8,521	-27.4	[illegible]	29	[illegible]
300	[illegible]	[illegible]	[illegible]	-47.2	[illegible]	[illegible]
250	[illegible]	10,852	[illegible]		[illegible]	[illegible]
200	[illegible]	12,311	[illegible]		[illegible]	[illegible]
175	[illegible]	13,156	[illegible]		[illegible]	[illegible]
150	[illegible]	14,110	[illegible]		29	[illegible]
125	[illegible]	15,212	[illegible]		[illegible]	[illegible]
100	[illegible]	16,535	[illegible]		[illegible]	5.6
80	29	17,859	[illegible]		[illegible]	[illegible]
70	29	[illegible]	[illegible]		[illegible]	3.5
60	29	19,615	[illegible]		[illegible]	[illegible]
50	29	[illegible]	[illegible]		[illegible]	.5
40	29	22,149	[illegible]		[illegible]	[illegible]
30	[illegible]	23,979	[illegible]		[illegible]	[illegible]
25	[illegible]	25,150	[illegible]		[illegible]	[illegible]
20	[illegible]	26,599	[illegible]		[illegible]	[illegible]
15	[illegible]	28,491	[illegible]		[illegible]	[illegible]
10	15	31,182	[illegible]			
7						

ELY, NV
813 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	[illegible]	5.3	-2.1	19	3.4
1000						
950						
900						
850						
800	30	2,045	11.7	[illegible]	[illegible]	[illegible]
750	30	2,586	11.7	-3.9	[illegible]	1.4
700	30	3,159	8.3	-7.3	24	[illegible]
650	[illegible]	3,768	3.6	-10.4	[illegible]	[illegible]
600	[illegible]	4,411	[illegible]	-14.5	[illegible]	[illegible]
550	[illegible]	5,097	-6.8	[illegible]	27	[illegible]
500	[illegible]	5,834	-11.7	-27.3	27	[illegible]
450	[illegible]	6,633	-17.0	-31.9	27	[illegible]
400	[illegible]	[illegible]	-23.4	-37.7	27	[illegible]
350	[illegible]	8,472	[illegible]	[illegible]	27	[illegible]
300	[illegible]	9,545	-39.0	-51.1	[illegible]	[illegible]
250	[illegible]	10,772	-47.5		27	[illegible]
200	[illegible]	12,221	-55.0		[illegible]	[illegible]
175	[illegible]	13,067	-58.5		27	[illegible]
150	[illegible]	14,028	[illegible]		27	[illegible]
125	[illegible]	15,147	-65.2		28	[illegible]
100	[illegible]	16,500	-66.7		[illegible]	[illegible]
80	[illegible]	17,854	-65.0		31	[illegible]
70	[illegible]	18,673	-62.5		33	[illegible]
60	[illegible]	19,630	-60.4		36	[illegible]
50	[illegible]	[illegible]	-58.1		[illegible]	[illegible]
40	[illegible]	22,184	-55.8		06	[illegible]
30	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
25	[illegible]	25,211	-51.0		09	[illegible]
20	[illegible]	26,672	-49.1		09	[illegible]
15	[illegible]	28,576	-46.8		09	[illegible]
10	[illegible]	31,262	-44.2			

EMPALME, MEXICO
1009 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	12	[illegible]	[illegible]	[illegible]	[illegible]
1000	30	[illegible]	26.7	[illegible]	[illegible]	[illegible]
950	30	546	26.1	[illegible]	06	[illegible]
900	30	1,021	23.7	13.3	[illegible]	[illegible]
850	30	1,519	[illegible]	[illegible]	[illegible]	[illegible]
800	[illegible]	2,041	[illegible]	6.5	[illegible]	[illegible]
750	30	2,590	[illegible]	3.4	12	[illegible]
700	30	3,167	[illegible]	[illegible]	13	3.3
650	[illegible]	3,777	[illegible]	[illegible]	[illegible]	[illegible]
600	[illegible]	4,425	.8	-8.8	[illegible]	[illegible]
550	[illegible]	5,120	[illegible]	[illegible]	[illegible]	[illegible]
500	[illegible]	5,870	[illegible]	[illegible]	[illegible]	[illegible]
450	[illegible]	6,685	[illegible]	[illegible]	[illegible]	[illegible]
400	[illegible]	7,576	[illegible]	[illegible]	[illegible]	[illegible]
350	29	8,561	-25.4	[illegible]	[illegible]	[illegible]
300	[illegible]	9,658	-33.9	[illegible]	[illegible]	[illegible]
250	[illegible]	10,911	[illegible]		[illegible]	[illegible]
200	[illegible]	[illegible]	-53.4		[illegible]	[illegible]
175	[illegible]	13,230	[illegible]		[illegible]	[illegible]
150	29	14,182	-65.2		[illegible]	[illegible]
125	[illegible]	15,275	-71.3		[illegible]	[illegible]
100	[illegible]	16,583	-73.9		[illegible]	[illegible]
80	[illegible]	17,895	-70.1		[illegible]	[illegible]
70	[illegible]	18,698	-66.1		[illegible]	[illegible]
60	[illegible]	19,641	-63.4		[illegible]	[illegible]
50	[illegible]	20,768	-60.8		[illegible]	[illegible]
40	25	22,165	-58.1		[illegible]	[illegible]
30	24	23,992	-54.9		[illegible]	16.5
25	24	25,163	-52.8		[illegible]	16.5
20	[illegible]	26,606	-49.6		[illegible]	[illegible]
15	14	28,496	-46.4		[illegible]	[illegible]
10						

* **FAIRBANKS, AK**
995 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	[illegible]	[illegible]	4.4	[illegible]	[illegible]	1.5
1000	5	[illegible]	[illegible]	1.4		
950	[illegible]	515	5.6	[illegible]	09	.9
900	[illegible]	[illegible]	3.2	[illegible]	19	1.7
850	[illegible]	[illegible]	[illegible]	-3.9	[illegible]	2.8
800	30	[illegible]	-2.3	-6.5	21	4.1
750	30	[illegible]	-5.4	[illegible]	[illegible]	4.9
700	30	[illegible]	[illegible]	[illegible]	[illegible]	6.2
650	[illegible]	[illegible]	-11.6	[illegible]	[illegible]	7.7
600	[illegible]	[illegible]	-15.1	[illegible]	[illegible]	9.4
550	[illegible]	[illegible]	-19.1	[illegible]	[illegible]	10.2
500	[illegible]	5,486	[illegible]	[illegible]	[illegible]	11.7
450	[illegible]	6,249	[illegible]	[illegible]	[illegible]	12.7
400	[illegible]	7,082	[illegible]	[illegible]	[illegible]	14.0
350	[illegible]	8,005	[illegible]	[illegible]	[illegible]	16.2
300	[illegible]	[illegible]	[illegible]		[illegible]	16.9
250	[illegible]	[illegible]	-53.2		[illegible]	19.7
200	[illegible]	[illegible]	-51.7		[illegible]	18.2
175	[illegible]	12,533	-50.7		[illegible]	15.9
150	[illegible]	13,538	-50.6		[illegible]	14.2
125	[illegible]	14,726	-51.1		[illegible]	12.8
100	[illegible]	16,176	-51.8		[illegible]	10.6
80	[illegible]	17,623	-51.9		[illegible]	9.3
70	[illegible]	18,488	-52.2		[illegible]	9.5
60	[illegible]	19,485	-52.5		[illegible]	8.2
50	[illegible]	20,651	[illegible]		[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]		[illegible]	6.8
30	[illegible]	[illegible]	[illegible]		[illegible]	6.3
25	[illegible]	25,118	[illegible]		[illegible]	6.5
20	[illegible]	26,555	[illegible]		[illegible]	6.6
15	[illegible]	28,410	[illegible]		[illegible]	[illegible]
10	[illegible]	31,139	[illegible]			

FLINT, MI
[illegible] MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	[illegible]	[illegible]	[illegible]	[illegible]	24	[illegible]
1000						
950	30	587	11.1	[illegible]	27	[illegible]
900	[illegible]	1,038	[illegible]	[illegible]	29	[illegible]
850	[illegible]	[illegible]	[illegible]	[illegible]	28	5.4
800	[illegible]	2,005	[illegible]	[illegible]	29	6.6
750	[illegible]	2,530	[illegible]	[illegible]	28	8.5
700	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
650	[illegible]	3,675	[illegible]	[illegible]	[illegible]	[illegible]
600	[illegible]	4,306	[illegible]	-21.5	[illegible]	[illegible]
550	[illegible]	4,982	[illegible]	-25.4	27	[illegible]
500	[illegible]	5,712	[illegible]	[illegible]	27	17.1
450	[illegible]	[illegible]	[illegible]	-33.8	[illegible]	[illegible]
400	[illegible]	7,369	[illegible]	[illegible]	[illegible]	[illegible]
350	[illegible]	8,326	[illegible]	-44.6	26	[illegible]
300	[illegible]	[illegible]	[illegible]	[illegible]	26	[illegible]
250	[illegible]	[illegible]	[illegible]		26	[illegible]
200	[illegible]	12,068	-54.5		26	[illegible]
175	[illegible]	12,920	[illegible]		26	[illegible]
150	[illegible]	13,899	[illegible]		[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
100	[illegible]	16,438	[illegible]		[illegible]	[illegible]
80	[illegible]	17,835	[illegible]		[illegible]	[illegible]
70	[illegible]	18,678	[illegible]		[illegible]	5.8
60	29	19,653	[illegible]		[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
40	[illegible]	22,249	[illegible]		[illegible]	[illegible]
30	[illegible]	24,114	[illegible]		[illegible]	[illegible]
25	[illegible]	25,305	[illegible]		[illegible]	[illegible]
20	[illegible]	26,776	[illegible]		[illegible]	[illegible]
15	15	[illegible]	[illegible]		[illegible]	[illegible]
10						

GLASGOW, MT
[illegible] MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	[illegible]	696	[illegible]	[illegible]	[illegible]	[illegible]
1000						
950						
900	[illegible]	1,039	[illegible]	[illegible]	[illegible]	2.5
850	[illegible]	1,517	[illegible]	[illegible]	[illegible]	4.5
800	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6.1
750	[illegible]	[illegible]	3.9	[illegible]	[illegible]	[illegible]
700	[illegible]	3,103	[illegible]	[illegible]	[illegible]	8.5
650	[illegible]	3,695	[illegible]	[illegible]	[illegible]	9.4
600	[illegible]	4,325	[illegible]	[illegible]	[illegible]	10.4
550	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
500	[illegible]	5,727	[illegible]	[illegible]	[illegible]	[illegible]
450	[illegible]	6,515	-20.9	[illegible]	[illegible]	[illegible]
400	[illegible]	[illegible]	-27.4	[illegible]	[illegible]	14.3
350	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
300	[illegible]	[illegible]	[illegible]		[illegible]	16.5
250	[illegible]	10,586	[illegible]		[illegible]	17.7
200	[illegible]	12,020	[illegible]		[illegible]	16.0
175	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
150	[illegible]	13,847	[illegible]		[illegible]	16.6
125	[illegible]	14,998	[illegible]		[illegible]	14.2
100	[illegible]	16,401	[illegible]		[illegible]	10.3
80	[illegible]	17,802	[illegible]		[illegible]	7.6
70	[illegible]	18,644	[illegible]		[illegible]	[illegible]
60	[illegible]	19,619	[illegible]		[illegible]	4.4
50	[illegible]	20,776	[illegible]		[illegible]	3.4
40	[illegible]	22,201	[illegible]		[illegible]	2.6
30	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]		[illegible]	4.5
15	[illegible]	28,611	[illegible]		[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]			

RAWINSONDE DATA

Average monthly values

GRAND JUNCTION, CO 855 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	1,472	12.9	-.9	12	1.5
1000						
950						
900						
850	29	1,5[illegible]8	15.4	-.9	12	1.9
800	30	2,040	14.9	-1.8	12	[illegible]
750	30	2,5[illegible]	11.8	-3.9	27	.7
700	30	3,1[illegible]6	7.5	-5.6	29	2.5
650	30	3,7[illegible]	2.7	-9.3	29	3.2
600	30	4,403	-2.3	-12.7	29	4.1
550	30	5,[illegible]58	-7.3	-16.6	29	5.3
500	30	5,8[illegible]5	-11.5	-25.5	29	[illegible]
450	30	6,625	-16.8	-32.0	29	6.8
400	30	7,498	-23.4	-38.1	29	8.1
350	30	8,463	-3[illegible].8	-44.6	29	[illegible]
300	30	9,[illegible]36	-39.0	-48.9	28	12.0
250	30	10,762	-47.9		28	14.8
200	30	12,211	-55.0		29	19.3
175	30	13,057	-58.6		28	17.7
150	30	14,019	-61.7		28	16.3
125	30	15,[illegible]	-64.8		28	13.4
100	30	16,493	-66.4		29	9.4
80	30	17,846	-64.4		30	4.5
70	30	18,668	-62.2		32	2.0
60	30	19,624	-60.3		33	1.7
50	29	20,765	-58.0		01	[illegible]
40	29	22,179	-55.7		07	1.9
30	28	24,[illegible]15	-53.5		08	4.5
25	20	25,193	-51.9		09	5.0
20	20	26,646	-50.2		09	5.5
15	15	28,525	-48.1		09	5.2
10	[illegible]	31,220	-45.5			

* **GREAT FALLS, MT** 893 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	1,118	7.8	2.0	24	3.0
1000						
950						
900						
850	30	1,529	11.9	-.9	27	3.2
800	30	2,033	8.7	-3.7	30	3.8
750	30	2,564	5.1	-7.0	30	4.6
700	30	3,123	1.[illegible]	-10.2	30	5.1
650	30	3,715	[illegible]	-14.8	29	7.2
600	30	4,347	-5.9	-20.0	29	8.9
550	30	5,024	-9.8	-25.1	30	10.8
500	30	5,752	-14.9	-30.3	30	11.7
450	30	6,541	-20.2	-34.8	29	13.0
400	30	7,403	-26.8	-40.8	29	13.5
350	30	8,355	-34.2	-47.7	30	15.0
300	30	9,4[illegible]3	-42.4	-53.5	30	16.7
250	30	10,624	-50.0		30	17.8
200	30	12,060	-56.0		30	17.9
175	29	12,907	-57.7		30	17.4
150	29	13,878	-58.3		30	16.9
125	29	15,021	-60.1		29	14.5
100	29	16,412	-60.3		30	10.9
80	29	17,803	-59.6		31	7.5
70	29	18,640	-59.[illegible]		30	5.4
60	27	19,606	-58.3		31	4.6
50	26	20,760	-57.0		32	3.5
40	26	22,177	-55.6		30	2.2
30	23	24,021	-52.8		29	3.8
25	21	25,194	-51.8		28	4.3
20	17	26,664	-49.9		27	5.4
15	12	28,558	-48.0		28	6.6

GREEN BAY, WI 993 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	21[illegible]	8.7	6.9	26	1.2
1000						
950	30	577	10.6	5.1	26	3.3
900	30	1,026	8.4	2.1	27	4.8
850	30	1,496	6.0	-2.5	27	6.1
800	30	1,991	3.8	-7.0	28	6.6
750	30	2,513	1.3	-11.5	28	7.3
700	30	3,066	-1.5	-15.2	28	8.4
650	30	3,653	-4.5	-17.9	28	10.3
600	30	4,280	-7.9	-21.4	28	11.4
550	30	4,951	-11.9	-26.3	28	12.5
500	30	5,674	-16.7	-31.3	28	13.9
450	30	6,458	-21.8	-36.4	28	15.3
400	30	7,315	-27.9	-41.5	28	17.3
350	30	8,204	-34.6	-47.6	28	19.1
300	30	9,321	-42.1	-50.9	27	22.1
250	30	10,536	-48.7		27	23.6
200	30	11,986	-53.6		26	23.3
175	30	12,843	-54.6		27	21.7
150	30	13,827	-56.1		27	19.3
125	30	14,982	-57.9		27	16.0
100	30	16,386	-58.5		27	11.6
80	30	17,792	-57.5		27	8.8
70	30	18,638	-56.6		27	6.9
60	30	19,618	-55.7		27	5.3
50	30	20,783	-54.7		27	5.2
40	30	22,218	-52.7		27	3.8
30	29	24,084	-50.9		27	2.2
25	27	25,276	-49.5		28	1.7
20	24	26,753	-47.2		28	1.3
15	23	28,660	-45.7		27	1.2
10	10	31,394	-42.6			

GREENSBORO, NC 987 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	275	17.3	16.3	02	.7
1000						
950	30	605	17.5	13.0	03	.8
900	30	1,067	15.7	10.0	24	2.0
850	30	1,551	13.2	8.2	24	4.9
800	30	2,060	11.3	3.7	24	6.4
750	30	2,598	9.2	-2.1	24	7.1
700	30	3,166	6.1	-6.5	24	8.2
650	30	3,771	2.9	-10.9	24	8.0
600	30	4,415	-.6	-15.1	24	8.9
550	30	5,105	-4.5	-19.8	24	9.7
500	30	5,849	-9.0	-24.2	25	11.4
450	30	6,657	-14.2	-28.6	25	11.9
400	30	7,540	-20.4	-33.5	25	13.3
350	30	8,519	-27.0	-39.5	25	15.3
300	30	9,609	-35.4	-47.4	25	17.2
250	30	10,853	-45.1		25	18.5
200	30	12,309	-55.4		26	20.4
175	30	13,150	-60.4		26	19.7
150	30	14,101	-64.4		26	16.8
125	30	15,206	-67.8		26	13.0
100	30	16,545	-68.5		26	9.3
80	30	17,895	-64.5		25	3.3
70	29	18,717	-61.8		26	.7
60	29	19,675	-60.2		09	2.3
50	29	20,819	-57.7		09	5.1
40	28	22,236	-55.5		09	7.4
30	28	24,085	-52.3		10	9.1
25	28	25,269	-50.7		09	9.2
20	24	26,731	-48.1		09	9.6
15	19	28,645	-45.5		10	9.3
10	11	31,400	-42.1			

GUADALUPE IS., MEXICO 1011 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	23	17.8	15.3	33	6.0
1000	30	116	17.0	14.2	32	7.1
950	30	557	20.5	8.5	32	3.8
900	30	1,023	20.3	4.6	32	1.7
850	30	1,516	19.5	.1	30	1.3
800	30	2,035	16.5	-1.8	26	1.0
750	30	2,581	13.0	-4.8	24	.8
700	30	3,156	9.1	-7.3	24	1.2
650	30	3,766	5.8	-12.8	24	1.5
600	30	4,416	1.8	-16.8	25	2.1
550	30	5,112	-2.4	-21.4	26	3.2
500	30	5,861	-7.0	-25.6	27	5.2
450	30	6,675	-12.3	-30.8	27	6.3
400	30	7,563	-18.9	-36.5	27	8.4
350	29	8,549	-25.9	-42.1	26	9.6
300	29	9,644	-34.1	-48.9	27	11.0
250	29	10,895	-43.5		26	12.9
200	28	12,363	-53.6		26	13.4
175	27	13,212	-59.1		25	13.3
150	26	14,164	-65.5		25	11.2
125	25	15,257	-70.8		24	8.7
100	22	16,567	-73.4		24	2.1
80	19	17,880	-69.1		07	3.9
70	19	18,683	-66.8		07	5.6
60	18	19,626	-64.0		08	7.3
50	18	20,750	-61.3		08	9.3
40	17	22,139	-58.8		06	11.5
30	14	23,962	-54.9		08	16.1
25	10	25,134	-53.6		08	15.6
20	[illegible]	26,583	-51.1			

* **GUAM, MARIANA IS.** 998 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	[illegible]	24.6	23.6	11	1.3
1000						
950	30	547	23.4	[illegible]	[illegible]	2.9
900	30	1,019	20.8	16.6	11	3.8
850	30	1,512	17.9	13.2	11	3.9
800	30	2,030	15.2	10.1	11	4.2
750	30	2,575	12.3	6.7	10	4.9
700	30	3,15[illegible]	9.1	2.2	10	5.4
650	30	3,763	5.9	-2.1	10	5.1
600	30	4,415	2.0	-4.8	10	4.5
550	30	5,112	-2.0	-8.0	10	4.5
500	30	5,865	-6.3	-15.2	09	4.5
450	30	6,682	-11.0	-20.7	09	4.3
400	30	7,578	-16.7	-27.1	08	3.8
350	30	8,571	-23.4	-34.0	07	3.3
300	30	9,677	-31.7	-43.0	06	3.2
250	30	10,940	-41.9		03	3.5
200	30	12,410	-54.7		01	4.7
175	28	13,148	-61.7		01	5.0
150	29	14,185	-69.5		02	4.9
125	27	15,253	-76.3		06	7.1
100	26	16,525	-79.1		08	8.4
80	24	17,817	-73.0		09	10.2
70	23	18,607	-70.4		09	11.1
60	23	19,526	-67.8		09	11.2
50	22	20,636	-63.6		09	11.2
40	22	22,018	-59.7		09	11.4
30	21	23,8[illegible]8	-56.6		09	12.6
25	19	24,990	-54.1		09	12.7
20	19	26,433	-51.0		09	14.2
15	13	28,309	-48.2		08	16.7
10	5	31,021	-44.1			

HILO, HI 1017 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	10	21.1	18.0	24	1.9
1000	30	153	21.9	17.3	24	1.0
950	30	597	18.6	15.7	09	2.0
900	30	1,060	15.4	12.7	09	3.5
850	30	1,543	12.3	9.4	08	3.6
800	30	2,050	10.1	4.6	08	3.7
750	30	2,586	9.0	-5.3	08	3.2
700	30	3,158	8.6	-12.1	08	3.0
650	30	3,767	5.6	-15.3	08	2.9
600	30	4,417	2.2	-18.9	08	2.6
550	30	5,114	-2.0	-22.5	07	1.7
500	30	5,864	-7.2	-26.9	03	.6
450	30	6,676	-13.0	-31.5	07	.3
400	30	7,563	-19.6	-36.3	27	.9
350	30	8,543	-27.2	-43.1	26	2.5
300	30	9,630	-36.1	-50.2	26	5.2
250	30	10,869	-46.0		26	9.1
200	30	12,318	-56.9		27	13.3
175	30	13,153	-62.5		27	12.9
150	30	14,092	-67.6		26	10.2
125	30	15,181	-70.4		24	6.4
100	29	16,498	-72.8		19	2.4
80	28	17,812	-71.3		10	5.6
70	28	18,605	-69.5		10	7.8
60	28	19,532	-66.8		10	10.3
50	28	20,642	-63.5		09	12.6
40	27	22,024	-59.9		09	14.2
30	27	23,839	-56.0		09	15.8
25	26	25,005	-54.1		09	16.5
20	25	26,442	-51.6		09	17.9
15	22	28,316	-47.9		09	19.6
10	11	31,007	-43.9			

HUNTINGTON, WV 990 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	246	14.2	12.4	14	.4
1000						
950	30	595	15.1	10.3	21	1.2
900	30	1,052	13.3	8.1	25	3.7
850	30	1,532	10.8	5.5	25	6.2
800	30	2,036	8.9	-.5	26	7.0
750	30	2,569	6.9	-5.7	26	7.7
700	30	3,133	4.4	-9.7	26	8.9
650	30	3,734	1.7	-12.0	25	10.3
600	30	4,375	-2.1	-16.6	25	12.2
550	30	5,062	-5.8	-19.3	25	13.3
500	30	5,802	-10.6	-23.8	25	14.2
450	30	6,606	-15.6	-28.8	25	15.4
400	30	7,484	-21.8	-33.9	25	17.6
350	29	8,456	-28.9	-42.2	25	19.1
300	29	9,537	-37.1	-48.6	25	22.4
250	29	10,774	-46.0		25	25.2
200	29	12,230	-54.3		26	27.8
175	29	13,077	-58.5		26	26.6
150	28	14,036	-62.0		26	22.7
125	28	15,157	-64.8		26	16.9
100	27	16,517	-65.4		25	11.5
80	27	17,884	-62.3		26	5.3
70	26	18,715	-60.0		26	3.0
60	26	19,683	-58.0		22	.5
50	26	20,836	-56.5		09	1.7
40	25	22,258	-54.7		08	4.0
30	24	24,112	-52.0		09	6.1
25	22	25,292	-50.3		08	6.6
20	21	26,758	-47.8		08	7.4
15	18	28,670	-45.4		09	6.7
10	6	31,467	-40.2			

* **INTERNATIONAL FALLS, MN** 974 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	359	6.1	4.6	22	.6
1000						
950	30	560	9.1	4.4	26	2.7
900	30	1,007	6.8	1.4	28	3.9
850	30	1,475	4.7	-4.8	29	3.8
800	30	1,968	2.6	-7.2	29	4.5
750	30	2,488	.3	-12.0	29	5.3
700	30	3,038	-2.3	-16.6	29	6.3
650	30	3,623	-5.7	-19.2	30	7.5
600	30	4,246	-9.5	-22.6	30	9.0
550	30	4,913	-13.5	-26.4	30	10.2
500	30	5,632	-18.3	-30.8	30	10.5
450	30	6,410	-23.8	-36.5	30	11.6
400	30	7,260	-29.8	-42.9	30	13.5
350	30	8,201	-37.0	-47.5	30	15.6
300	30	9,247	-44.4		30	17.7
250	30	10,451	-50.5		30	19.3
200	30	11,896	-52.9		29	18.5
175	30	12,756	-53.5		29	17.2
150	29	13,746	-54.4		29	17.2
125	29	14,911	-55.6		29	14.0
100	29	16,330	-56.3		28	11.2
80	29	17,748	-56.2		29	8.6
70	29	18,599	-55.5		29	7.1
60	29	19,584	-54.9		29	5.6
50	29	20,751	-54.1		28	4.6
40	28	22,184	-53.1		28	4.9
30	28	24,049	-51.0		27	5.0
25	27	25,240	-49.9		27	5.0
20	24	26,703	-48.5		27	5.8
15	23	28,607	-46.6		27	6.7
10	12	31,302	-43.7		28	8.4

* **ISLE DEL CISNE** 1010 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	10	26.3	23.5	11	2.7
1000	30	100	25.9	23.8	10	3.0
950	30	552	22.8	21.1	11	5.0
900	30	1,023	19.8	17.4	11	6.0
850	30	1,514	16.9	13.3	11	6.8
800	30	2,031	14.4	9.4	11	6.5
750	30	2,574	11.5	6.7	12	6.4
700	30	3,148	8.1	3.2	12	5.6
650	30	3,758	4.9	.1	12	4.8
600	30	4,407	1.3	-4.4	11	4.6
550	30	5,103	-2.6	-8.5	10	4.8
500	30	5,854	-6.7	-15.7	09	4.2
450	29	6,670	-11.6	-22.3	08	3.6
400	29	7,563	-17.6	-27.4	06	2.8
350	29	8,553	-24.2	-33.9	04	2.3
300	29	9,656	-32.8	-42.3	01	3.2
250	29	10,912	-43.1		35	3.8
200	29	12,375	-55.6		34	5.4
175	29	13,213	-62.6		34	5.8
150	29	14,147	-69.8		36	6.4
125	29	15,218	-74.8		03	6.6
100	28	16,512	-74.2		07	7.1
80	27	17,817	-72.2		09	9.4
70	27	18,609	-69.0		09	10.6
60	27	19,538	-66.2		09	11.4
50	26	20,655	-62.9		08	13.5
40	26	22,045	-58.8		09	14.1
30	26	23,863	-55.6		09	14.5
25	26	25,033	-52.9		09	14.1
20	25	26,480	-49.4		09	16.5
15	20	28,360	-46.3		09	20.2
10	12	31,085	-42.2			

JACKSON, MS 1006 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	[illegible]	17.0	15.7	06	.9
1000	29	152	18.4	16.3	07	1.1
950	30	592	18.5	13.5	04	1.4
900	30	1,055	16.2	10.1	01	1.5
850	30	1,5[illegible]	14.4	4.3	36	1.5
800	30	2,051	12.2	2.0	35	1.5
750	30	2,590	9.7	-1.4	34	1.4
700	30	3,160	6.4	-5.3	32	1.6
650	30	3,765	3.0	-7.8	[illegible]	[illegible]
600	30	4,409	-.7	-12.7	28	2.7
550	30	5,099	-4.4	-17.3	26	3.5
500	30	5,844	[illegible]	-21.8	25	[illegible]
450	30	6,652	-14.1	-29.1	25	5.9
400	30	7,535	-20.4	-34.7	25	8.4
350	30	8,513	-27.2	-40.3	25	10.0
300	30	9,603	-35.1	-48.4	24	12.1
250	30	10,850	-44.4		24	14.3
200	[illegible]	12,312	-54.6		24	14.9
175	30	13,156	-59.6		25	14.3
150	30	14,1[illegible]9	-64.5		25	12.8
125	30	15,213	-68.3		25	9.6
100	29	16,544	-69.8		27	4.8
80	29	17,883	-66.5		09	.8
70	[illegible]	[illegible]	-63.6		[illegible]	3.0
60	[illegible]	[illegible]	-61.7		[illegible]	[illegible]
50	[illegible]	[illegible]	-58.9		09	[illegible]
40	[illegible]	22,192	-56.6		09	[illegible]
30	[illegible]	[illegible]	-52.9		[illegible]	13.0
25	[illegible]	[illegible]	-50.9		[illegible]	[illegible]
20	[illegible]	26,677	[illegible]		[illegible]	[illegible]
15	[illegible]	[illegible]	-45.1		09	[illegible]
10	9	31,267	-40.6			
7						

JOHN F. KENNEDY INT. AP NY 1019 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	29	5	15.8	11.1	[illegible]	.9
1000	29	166	15.0	10.5	02	1.2
950	29	600	13.2	8.1	36	1.2
900	29	1,054	11.6	4.4	27	2.6
850	29	1,531	10.0	1.6	26	4.8
800	29	2,035	8.3	-3.4	26	7.9
750	29	2,566	6.3	-5.4	26	9.8
700	29	3,130	3.6	-8.0	26	12.5
650	28	3,729	.9	-11.7	26	14.4
600	28	4,369	[illegible]	-14.7	26	15.3
550	28	5,055	-6.3	-18.7	26	16.6
500	28	5,79[illegible]	-11.1	-23.9	26	17.9
450	28	6,594	-16.3	-30.2	26	19.3
400	26	7,472	-22.3	-35.8	26	21.5
350	26	8,442	-29.2	-42.2	26	23.8
300	25	9,528	-37.0	-49.3	26	24.9
250	25	10,763	-46.7		26	27.3
200	23	12,217	-56.0		26	29.2
175	23	13,059	-59.[illegible]		27	29.9
150	23	14,019	-62.1		26	24.7
125	23	15,142	-63.6		26	20.2
100	22	16,510	-63.1		26	13.9
80	20	17,8[illegible]3	-61.0		27	7.0
70	20	18,727	[illegible]		27	4.4
60	19	19,702	-57.0		25	2.4
50	17	20,855	-55.5		09	1.2
40	17	22,233	-53.8		08	3.6
30	17	24,144	-50.8			
25	14	25,344	[illegible]			
20	13	26,823	-47.2			
15	9	28,755	-44.7			

JOHNSTON IS., PACIFIC AREA 1014 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	3	26.3	21.9	09	6.1
1000	30	128	24.8	20.8	09	6.6
950	30	577	21.1	18.3	09	7.5
900	30	1,044	17.9	14.1	09	8.0
850	30	1,532	15.0	9.5	09	7.3
800	30	2,044	13.[illegible]	4.2	08	5.6
750	30	2,585	11.1	-3.6	08	3.7
700	30	3,158	9.2	-10.0	08	3.4
650	30	3,769	6.3	-13.9	09	3.5
600	30	4,429	2.6	-17.6	09	4.0
550	30	5,118	-1.9	-21.8	08	4.8
500	30	5,868	-7.2	-25.4	09	4.3
450	30	6,682	-12.4	-28.5	09	3.7
400	30	7,571	-18.6	-34.3	09	1.7
350	30	8,555	-26.1	-39.4	26	1.4
300	30	9,649	-34.6	-45.4	27	6.1
250	30	10,896	-44.7		27	10.6
200	30	12,350	-56.5		26	13.9
175	30	13,186	-62.7		26	14.4
150	30	14,120	-69.4		27	13.4
125	30	15,198	-72.3		26	7.6
100	30	16,508	-73.1		21	.8
80	30	17,817	-71.7		09	6.0
70	30	18,610	-69.4		09	8.2
60	30	19,536	-66.7		09	10.0
50	29	20,548	-63.5		09	9.9
40	29	22,030	-60.0		09	11.8
30	27	23,845	-56.3		09	12.6
25	27	25,079	-54.3		09	14.5
20	27	26,451	-50.9		09	15.2
15	27	28,337	-47.6		09	19.5
10	21	31,043	-43.0		09	22.5
7	6	33,453	-41.0			

KEY WEST, FL 1014 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	28	3	26.9	23.6	11	2.3
1000	28	125	26.5	22.7	11	3.6
950	28	578	23.0	20.1	11	5.2
900	28	1,048	19.9	16.5	12	5.2
850	28	1,540	17.1	11.7	12	4.8
800	28	2,056	14.4	7.9	12	4.7
750	28	2,599	11.5	3.7	12	4.2
700	28	3,173	8.4	.2	13	4.0
650	28	3,783	5.1	-5.0	12	4.0
600	28	4,432	1.1	-8.5	12	3.7
550	28	5,127	-2.9	-13.1	12	3.5
500	28	5,876	-7.4	-18.8	11	2.8
450	28	6,689	-12.3	-24.1	10	2.3
400	28	7,579	-18.4	-29.5	08	2.6
350	28	8,565	-25.2	-37.8	05	3.0
300	28	9,663	-33.8	-45.0	03	4.1
250	28	10,914	-44.0		01	4.7
200	27	12,374	-55.5		36	5.7
175	27	13,214	-61.7		36	6.0
150	27	14,153	-68.2		01	5.9
125	27	15,237	-71.9		04	5.8
100	27	16,546	-73.2		07	6.0
80	27	17,863	-70.1		08	6.9
70	26	18,663	-67.9		08	9.3
60	25	19,595	-65.3		09	12.3
50	25	20,715	-61.4		09	15.0
40	25	22,108	-58.8		09	17.1
30	25	23,931	-54.3		09	17.9
25	25	25,136	-52.0		09	17.1
20	22	26,558	-49.6		09	19.1
15	16	28,458	-45.3		09	21.9
10	12	31,183	-40.8		09	24.5
7	5	33,626	-37.2			

KING SALMON, AK 1007 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	27	15	7.2	4.9	15	1.7
1000	22	91	8.2	5.2	17	2.3
950	27	494	6.5	3.6	17	5.3
900	27	936	3.8	1.2	18	5.6
850	27	1,398	.7	-.8	17	5.6
800	27	1,883	-2.0	-4.3	17	5.8
750	27	2,394	-4.8	-9.3	18	5.7
700	27	2,934	-7.6	-14.8	18	5.3
650	26	3,506	-10.5	-20.7	19	5.8
600	26	4,118	-14.1	-23.4	20	6.8
550	26	4,773	-17.7	-28.1	21	8.4
500	26	5,480	-22.3	-32.8	21	9.9
450	26	6,246	-27.7	-37.9	21	10.3
400	26	7,082	-33.5	-42.6	22	11.3
350	26	8,009	-40.2	-44.7	22	13.8
300	26	9,044	-46.3		22	16.7
250	26	10,242	-50.8		23	16.2
200	25	11,692	-49.9		23	12.0
175	25	12,567	-49.3		24	10.8
150	25	13,576	-50.2		24	10.0
125	25	14,766	-50.5		24	8.7
100	25	16,218	-51.7		24	8.2
80	25	17,665	-51.9		24	6.5
70	25	18,530	-52.4		25	5.8
60	25	19,527	-52.5		25	5.3
50	25	20,704	-52.8		26	5.0
40	24	22,143	-52.8		26	4.6
30	23	23,999	-52.8		27	5.2
25	22	25,179	-52.4		28	5.7
20	19	26,615	-51.9		28	6.2
15	14	28,464	[illegible]		28	7.4

RAWINSONDE DATA

Average monthly values

SEPTEMBER [illegible]

+ KOROR, CAROLINE IS.
[illegible] MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	[illegible]	28.1	24.3	12	1.4
1000	30	87	26.8	23.3	12	1.5
950	30	540	23.4	20.5	12	2.4
900	30	1,011	20.4	16.6	12	3.2
850	30	[illegible]	17.5	13.5	12	3.4
800	30	2,021	15.0	9.9	12	3.4
750	30	2,566	12.1	6.7	11	3.5
700	30	3,141	9.2	3.0	11	4.0
650	30	3,753	5.7	.4	09	[illegible]
600	30	[illegible]	2.2	-3.6	09	4.9
550	30	[illegible]	-1.5	-8.2	09	4.9
500	30	5,857	-5.6	-12.7	09	4.9
450	30	6,678	-10.1	-18.7	07	4.6
400	29	7,576	-15.7	-25.8	08	4.8
350	29	8,574	-22.4	-33.4	08	5.3
300	29	9,634	-30.8	-42.0	08	6.7
250	27	[illegible]	-41.1		06	7.7
200	29	[illegible]	-53.7		06	8.4
175	29	13,272	-60.7		07	8.8
150	28	14,214	-68.7		07	8.2
125	28	15,286	-76.3		08	7.4
100	28	16,555	-78.6		09	8.7
80	28	17,847	-72.7		09	9.3
70	28	18,640	-68.7		07	7.7
60	27	19,570	-65.5		06	3.8
50	26	20,688	-62.3		05	1.2
40	[illegible]	22,073	-60.1		31	1.1
30	24	23,887	-55.7		12	1.7
25	24	25,053	-54.1		14	.9
20	24	26,498	-50.6		11	2.4
15	21	28,389	-46.7		11	4.9
10	12	31,098	-44.1			

[illegible], AK
[illegible] MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	29	5	2.4	-.2	02	2.4
1000	28	111	2.4	-3.5	[illegible]	2.2
950	29	[illegible]	.5	-5.2	06	1.7
900	29	[illegible]	-1.9	-6.3	[illegible]	1.1
850	29	1,395	-3.6	-9.3	04	.7
800	29	1,873	-5.3	-14.7	32	.6
750	29	2,378	-7.8	-18.0	[illegible]	.9
700	29	2,912	-10.4	-21.7	23	1.5
650	29	3,480	-13.4	-24.3	24	2.2
600	29	4,085	-17.0	-26.7	24	3.2
550	29	4,732	-21.2	-31.5	24	4.2
500	29	5,429	-25.8	-36.5	24	5.1
450	29	6,185	-30.9	-40.7	24	5.7
400	29	7,011	-36.5	-44.8	24	7.1
350	29	7,927	-42.9		24	[illegible]
300	29	8,946	[illegible]		24	9.1
250	29	10,129	-52.5		24	9.3
200	29	11,583	-49.2		26	9.0
175	29	12,460	-49.1		25	8.3
150	29	13,472	-49.1		25	7.5
125	29	14,667	-49.5		25	7.6
100	28	16,128	-50.1		25	7.2
80	28	17,584	-50.7		25	6.6
70	27	18,449	-50.9		25	6.7
60	26	19,448	-51.2		25	5.7
50	24	20,634	-51.6		26	6.5
40	24	22,081	-52.0		26	6.6
30	23	23,941	-52.4		27	6.3
25	21	25,118	-52.3		28	5.9
20	20	26,557	-52.2		28	5.8
15	10	28,393	-51.8			

[illegible], MARSHALL IS.
[illegible]

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s

LAKE CHARLES, LA
[illegible] MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	5	19.0	17.7	[illegible]	2.0
1000	30	143	21.6	17.6	07	2.5
950	30	588	19.9	14.1	09	2.7
900	30	1,053	17.5	11.0	09	1.9
850	30	1,540	15.1	6.5	[illegible]	1.3
800	30	2,053	13.0	2.9	08	1.6
750	30	2,593	[illegible]	-.8	[illegible]	1.6
700	30	3,163	6.9	-4.7	07	1.5
650	30	3,769	3.3	[illegible]	06	.8
600	30	4,414	-.2	-12.4	30	.8
550	30	5,106	-4.2	-16.9	26	1.8
500	30	5,851	-8.6	-21.3	25	3.1
450	30	6,661	-13.6	-26.7	26	4.9
400	30	7,546	-19.6	-33.0	25	6.8
350	30	8,527	-26.6	-40.3	26	8.8
300	30	9,619	-34.8	-47.0	26	10.4
250	30	10,867	-44.1		26	12.7
200	30	12,328	[illegible]		26	13.0
175	30	13,173	-59.8		26	12.4
150	30	14,125	-64.6		26	9.7
125	30	15,224	-69.6		26	7.1
100	30	16,548	-70.7		28	3.0
80	30	17,878	-68.1		07	3.4
70	30	18,687	-64.8		09	5.8
60	29	19,631	-62.4		09	7.6
50	27	20,765	-59.6		09	10.4
40	27	22,170	-56.8		09	12.5
30	[illegible]	24,016	-52.6		09	14.5
25	23	25,199	-50.7		09	15.4
20	22	26,662	-47.7		09	15.5
15	18	28,582	-44.1		09	17.0
10	6	31,326	-39.5			

LANDER, WY
[illegible] MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	1,697	[illegible]	-2.1	[illegible]	1.0
1000						
950						
900						
850						
800	30	2,046	11.1	-3.8	31	1.0
750	30	2,581	[illegible]	-6.1	32	2.0
700	30	3,147	4.8	-9.7	29	3.5
650	30	3,747	[illegible]	-14.3	29	5.2
600	30	4,385	[illegible]	-18.0	29	6.9
550	30	5,067	-8.2	-23.4	29	7.6
500	30	5,800	-13.3	-28.8	29	9.2
450	30	6,594	[illegible]	-34.7	30	10.5
400	30	7,461	-25.2	-39.7	29	11.8
350	30	8,420	-32.6	-46.1	29	13.5
300	30	9,483	[illegible]	-51.6	[illegible]	16.1
250	30	10,699	[illegible]		29	18.0
200	30	12,130	-56.1		29	19.1
175	30	12,981	-58.1		[illegible]	[illegible]
150	30	13,946	-60.8		29	18.3
125	30	15,077	-62.4		29	14.9
100	30	16,448	-63.7		29	[illegible]
80	29	17,819	-62.5		[illegible]	6.1
70	29	18,647	-60.4		30	3.9
60	29	19,611	-59.0		30	2.2
50	29	20,759	-57.7		29	[illegible]
40	29	22,174	-55.4		30	1.6
30	28	24,025	-52.6		23	.2
25	28	25,207	-51.1		34	.6
20	24	26,671	-49.1		[illegible]	1.0
15	22	28,577	-46.9		08	1.9
10	11	31,292	-43.7		15	.4

* LIHUE KAUAI, HI
1014 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	36	24.1	20.0	07	4.2
1000	30	160	23.0	18.6	07	5.0
950	30	606	19.2	16.5	07	6.2
900	30	1,069	15.8	12.6	08	4.5
850	30	1,553	13.3	6.9	08	6.7
800	30	2,062	11.1	.5	08	6.7
750	30	2,600	10.3	-7.9	08	6.0
700	30	3,172	8.9	-12.9	09	4.3
650	30	3,782	5.8	-15.7	09	3.1
600	30	4,432	2.2	-18.8	08	2.3
550	30	5,129	-2.3	-22.4	07	1.3
500	30	5,878	-7.4	-26.2	05	.3
450	30	6,690	-13.3	-31.5	29	.8
400	30	7,574	-20.3	-37.1	26	3.0
350	30	8,551	-27.9	-42.5	27	4.0
300	30	9,635	-36.7	-50.3	27	5.6
250	30	10,871	-46.8		27	7.5
200	30	12,315	-57.2		27	11.9
175	30	13,149	-62.6		27	13.4
150	30	14,088	-67.2		27	10.3
125	30	15,182	-68.9		25	6.9
100	30	16,511	-70.8		22	2.3
80	30	17,836	-69.7		10	4.7
70	30	18,635	-67.9		10	8.1
60	29	19,567	-65.8		09	10.0
50	29	20,684	-62.5		09	12.9
40	28	22,070	-59.3		09	14.9
30	28	23,887	-55.8		09	16.7
25	28	25,052	-53.9		09	18.5
20	27	26,497	-50.6		09	19.3
15	25	28,385	-47.6		09	20.9
10	20	31,090	-43.2		09	24.4

LITTLE ROCK, AR
1009 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	79	16.4	14.8	34	.7
1000	30	157	17.8	14.0	02	.7
950	30	599	18.2	11.0	09	.6
900	30	1,060	15.6	7.5	13	.2
850	30	1,544	13.3	3.3	30	1.7
800	30	2,053	11.3	-.7	30	2.5
750	30	2,590	8.5	-3.5	30	3.1
700	30	3,157	5.4	-6.7	30	3.4
650	30	3,759	1.6	-10.0	29	4.0
600	30	4,400	-2.0	-13.8	28	4.7
550	30	5,087	-6.1	-19.8	28	6.1
500	30	5,827	-10.7	-24.6	27	6.7
450	30	6,629	-15.7	-30.8	27	7.9
400	30	7,507	-22.0	-35.5	27	8.8
350	30	8,478	-29.0	-41.4	27	9.8
300	30	9,560	-36.9	-48.0	27	11.3
250	30	10,797	-46.0		26	14.1
200	29	12,256	-54.8		26	15.8
175	29	13,102	-58.6		26	15.7
150	29	14,061	-62.7		26	15.0
125	29	15,175	-66.5		26	11.4
100	28	16,520	[illegible]		27	8.0
80	28	17,868	-65.3		29	2.3
70	28	18,687	-62.3		06	.1
60	28	19,643	-60.6		10	3.0
50	28	20,784	-58.4		10	5.4
40	27	22,194	-55.9		09	8.3
30	27	24,039	-52.7		09	10.0
25	26	25,225	-50.6		09	10.6
20	26	26,687	-48.5		09	12.2
15	24	28,594	-45.7		09	11.7
10	14	31,283	-42.7			

LONGVIEW, TX
1004 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	124	17.6	15.9	10	.2
1000	28	162	18.5	15.0	06	.9
950	30	600	18.7	11.7	11	1.6
900	30	1,063	16.9	9.6	12	.9
850	30	1,549	14.3	6.0	15	.7
800	30	2,059	12.0	.9	31	.3
750	30	2,597	9.1	-2.4	34	.8
700	30	3,166	6.0	-7.0	32	1.3
650	30	3,770	2.3	-9.7	32	1.8
600	30	4,412	-1.4	-12.8	30	1.8
550	30	5,100	-5.5	-17.7	27	2.6
500	30	5,842	-10.2	-25.0	27	3.0
450	30	6,646	-15.2	-30.4	27	4.3
400	30	7,525	-21.6	-35.8	27	5.5
350	30	8,499	-28.3	-42.2	27	7.8
300	30	9,583	-36.5	-48.4	27	9.5
250	30	10,823	-45.3		27	13.0
200	29	12,275	-54.9		27	15.6
175	29	13,120	-59.0		27	14.5
150	29	14,077	-63.7		27	13.1
125	29	15,183	-68.0		26	10.4
100	29	16,515	-69.8		27	6.0
80	29	17,852	-66.9		09	.7
70	29	18,665	-63.6		09	3.0
60	28	19,617	-61.9		09	5.4
50	28	20,751	-59.7		09	8.3
40	28	22,157	-56.6		09	10.0
30	27	23,996	-53.3		09	11.9
25	25	25,175	-50.9		09	13.4
20	24	26,638	-48.3		09	13.7
15	17	28,555	-45.3		08	13.3
10	5	31,286	-40.1			

MCGRATH, AK
998 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	103	4.1	2.1	12	.3
1000	11	136	5.5	3.4	32	.6
950	30	502	4.7	1.5	13	1.9
900	30	942	2.8	.1	16	3.4
850	30	1,403	.6	-2.4	17	4.2
800	30	1,888	-1.7	-6.3	18	5.4
750	30	2,399	-4.6	-9.0	19	5.9
700	30	2,940	-7.7	-14.2	19	6.0
650	30	3,513	-11.1	-18.3	19	6.0
600	30	4,123	-15.1	-23.4	20	6.9
550	30	4,775	-19.2	-26.8	20	7.1
500	30	5,478	-23.8	-31.9	20	[illegible]
450	30	6,240	-28.9	-37.5	20	8.9
400	30	7,072	-35.0	[illegible]	21	9.5
350	30	7,994	-41.3	-43.6	21	10.7
300	30	9,022	[illegible]		22	12.3
250	30	10,213	-51.0		22	14.2
200	30	11,667	-49.7		23	12.3
175	30	12,543	-49.3		23	11.7
150	30	13,552	-49.6		24	10.0
125	30	14,744	-50.3		24	9.6
100	30	16,199	-50.9		24	9.1
80	30	17,651	-51.3		24	7.4
70	29	18,518	-51.5		25	6.9
60	27	19,518	-51.7		25	6.5
50	26	20,598	-52.7		26	6.1
40	26	22,140	-52.7		26	5.5
30	23	23,998	-52.9		27	5.9
25	21	25,182	-52.5		28	6.2
20	19	26,624	-51.5		27	6.4
15	11	28,522	-50.0		28	6.5
10						

+ MAJURO, MARSHALL IS.
1011 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	3	28.3	[illegible]	[illegible]	3.6
1000	30	99	26.9	22.5	[illegible]	4.9
950	30	551	23.3	20.6	10	7.1
900	30	1,022	[illegible]	17.8	10	8.0
850	30	1,515	17.4	14.5	[illegible]	6.6
800	30	2,033	15.2	[illegible]	10	[illegible]
750	30	2,579	12.7	6.3	10	8.4
700	30	3,156	9.7	3.4	10	8.1
650	30	3,768	6.3	-.3	10	[illegible]
600	30	4,421	2.9	-6.0	10	7.4
550	30	5,122	-.9	-9.9	10	6.1
500	30	5,877	-5.0	-13.5	10	5.3
450	30	6,698	-9.7	[illegible]	09	4.4
400	30	7,598	[illegible]	-26.3	08	3.5
350	29	8,596	[illegible]	-33.4	08	3.1
300	29	9,708	-30.5	-42.1	06	2.4
250	29	10,976	-41.0	-50.8	[illegible]	1.7
200	29	12,453	[illegible]		32	3.6
175	29	13,300	-60.1		31	5.5
150	29	14,244	[illegible]		29	6.8
125	29	15,325	[illegible]		29	7.5
100	29	16,620	[illegible]		08	2.5
80	29	17,927	-70.7		09	6.0
70	29	18,726	[illegible]		09	4.9
60	29	19,663	-63.6		09	1.5
50	29	20,791	-60.7		26	1.5
40	27	22,190	-58.1		23	1.2
30	27	24,020	-54.0		[illegible]	.8
25	27	25,198	-51.3		10	1.5
20	25	26,659	[illegible]		13	1.6
15	16	28,555	-46.1		09	3.4
10						

* MEDFORD, OR
970 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	401	11.0	6.7	[illegible]	.4
1000						
950	30	580	15.4	6.0	22	.3
900	30	1,040	16.7	3.2	14	.7
850	30	1,526	16.5	-.8	13	1.9
800	30	2,040	14.4	-5.0	17	1.8
750	30	2,582	10.8	-7.9	21	2.3
700	30	3,152	6.6	-11.5	22	2.0
650	30	3,756	3.0	-16.0	24	2.1
600	30	4,399	-1.3	-18.7	25	2.2
550	30	5,086	-6.0	-23.0	25	1.8
500	30	5,825	-11.4	-28.6	[illegible]	1.4
450	30	6,624	-17.2	-33.8	[illegible]	[illegible]
400	30	7,495	-23.9	-39.5	27	2.1
350	30	8,458	-31.5	-45.8	27	2.0
300	30	9,527	-40.2	-52.7	26	2.7
250	30	10,746	-49.3		26	4.4
200	30	12,184	-56.1		26	10.5
175	30	13,030	-57.8		26	11.3
150	30	13,996	-60.1		[illegible]	11.3
125	30	15,127	-62.9		27	9.9
100	30	16,495	-64.3		28	7.0
80	30	17,860	-63.7		[illegible]	3.2
70	30	18,583	-62.3		32	2.3
60	30	19,639	-60.6		35	1.8
50	30	20,780	-58.7		[illegible]	1.7
40	30	[illegible]	-56.5		[illegible]	[illegible]
30	30	24,031	[illegible]		[illegible]	.9
25	29	25,215	-51.2		03	[illegible]
20	29	26,669	-49.3		[illegible]	.6
15	29	28,563	-47.4		[illegible]	[illegible]
10	13	31,244	-44.3		29	.9

MERIDA, MEXICO
[illegible] MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	[illegible]	22.7	22.2	07	.7
1000	30	[illegible]	23.8	21.4	08	2.3
950	30	562	22.4	19.1	09	4.8
900	30	1,032	19.7	14.3	09	5.2
850	30	[illegible]	16.9	11.0	09	4.0
800	30	2,039	14.5	7.7	09	3.4
750	30	2,582	11.5	4.1	10	3.6
700	30	3,157	8.6	1.1	11	3.2
650	30	3,767	5.2	-1.7	11	2.7
600	30	4,416	1.3	-5.8	10	2.8
550	30	5,113	-2.4	-10.7	[illegible]	2.6
500	30	5,864	-6.5	-16.8	08	3.3
450	30	[illegible]	-11.3	-24.2	07	3.4
400	29	7,574	-17.0	-30.5	[illegible]	2.3
350	29	[illegible]	-24.0	-36.7	07	[illegible]
300	29	9,669	-32.4	-45.6	31	.8
250	29	10,929	-42.4		27	1.4
200	29	12,397	-54.7		27	2.7
175	29	13,239	-60.9		27	2.0
150	29	14,181	-67.9		28	1.9
125	29	15,260	-74.3		[illegible]	[illegible]
100	29	16,551	-74.7		[illegible]	5.8
80	29	[illegible]	-71.1		[illegible]	9.2
70	29	18,456	-68.2		08	10.0
60	28	[illegible]	-65.6		[illegible]	11.3
50	28	[illegible]	-62.6		08	12.8
40	28	22,093	-59.0		[illegible]	13.4
30	28	23,914	-54.7		09	14.7
25	28	25,087	-52.5		[illegible]	14.7
20	28	[illegible]	-49.5		[illegible]	15.8
15	25	[illegible]	-45.8		[illegible]	15.3
10	8	31,118	-41.4			

MIAMI, FL
1015 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	[illegible]	25.4	23.8	07	1.3
1000	30	137	26.0	22.7	10	2.3
950	30	589	22.8	20.2	12	4.5
900	30	1,059	[illegible]	15.8	13	4.7
850	30	1,551	16.9	12.1	12	4.4
800	30	2,066	14.3	9.1	13	4.2
750	30	2,610	11.4	4.8	13	3.9
700	30	3,184	8.3	.4	13	3.7
650	30	3,793	4.8	-4.1	13	3.9
600	30	4,442	1.1	-7.8	13	3.8
550	30	5,137	-3.0	-12.4	13	3.6
500	30	[illegible]	-7.4	-18.4	11	2.9
450	30	6,699	-12.5	-23.1	11	2.7
400	30	[illegible]	[illegible]	-30.8	09	3.0
350	30	8,576	-25.1	-38.0	06	2.9
300	30	9,674	-33.5	-45.7	05	3.8
250	30	10,927	-43.8		03	5.0
200	30	12,387	-55.5		02	6.4
175	30	13,227	-61.5		01	6.6
150	30	14,169	-67.4		02	7.1
125	29	15,255	-71.4		[illegible]	6.0
100	29	16,570	-71.8		07	5.4
80	29	17,893	-69.1		08	6.6
70	29	18,696	[illegible]		09	[illegible]
60	29	19,632	[illegible]		[illegible]	11.5
50	29	20,755	-61.4		[illegible]	14.4
40	29	22,151	[illegible]		09	16.6
30	27	23,979	-54.3		09	17.1
25	[illegible]	25,161	-51.6		09	[illegible]
20	22	26,612	-49.3		09	18.4
15	17	28,508	-44.9		09	[illegible]
10	11	31,240	-41.3			

MIDLAND, TX
919 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	874	15.5	[illegible]	10	[illegible]
1000						
950						
900	30	1,047	17.4	11.1	16	2.2
850	30	1,535	17.0	7.1	18	3.7
800	30	2,051	14.9	3.8	[illegible]	1.7
750	30	2,594	11.2	.2	18	.5
700	30	3,167	7.5	-4.7	[illegible]	.6
650	30	3,773	3.4	-7.9	36	1.4
600	30	4,418	-.7	-11.7	34	2.0
550	30	5,108	-4.8	-17.7	32	1.8
500	30	5,852	-9.3	-23.0	31	2.7
450	30	6,659	-14.3	-29.0	[illegible]	3.7
400	30	7,541	-20.7	-34.5	30	[illegible]
350	30	8,518	-27.6	-40.2	30	6.4
300	30	9,605	-36.0	-46.0	30	9.4
250	30	[illegible]	-45.2		[illegible]	12.5
200	30	12,305	-55.0		[illegible]	14.6
175	30	13,149	-59.6		[illegible]	15.1
150	30	14,102	-64.3		[illegible]	13.1
125	29	15,204	-68.8		[illegible]	[illegible]
100	[illegible]	16,530	[illegible]		29	4.6
80	25	17,862	-67.2		[illegible]	1.9
70	25	18,674	-64.2		10	3.7
60	25	19,622	-62.2		[illegible]	5.1
50	25	20,756	[illegible]		[illegible]	8.1
40	25	22,160	-57.3		[illegible]	10.6
30	[illegible]	23,994	-53.4		[illegible]	13.3
25	25	25,174	-51.0		[illegible]	[illegible]
20	22	26,639	-47.8		[illegible]	13.2
15	20	28,549	-45.1		[illegible]	14.3
10	11	31,251	-40.8			

MONETT, MO
[illegible] MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	438	[illegible]	[illegible]	[illegible]	1.7
1000						
950	30	597	16.2	10.5	[illegible]	1.7
900	30	1,058	[illegible]	6.6	[illegible]	2.6
850	30	1,540	12.8	3.4	28	3.3
800	30	2,048	10.6	-1.8	[illegible]	3.6
750	30	2,583	[illegible]	-5.2	29	3.8
700	30	3,149	4.9	-9.0	29	[illegible]
650	30	3,750	1.5	[illegible]	29	4.9
600	30	4,391	-2.3	-17.5	30	5.7
550	30	5,076	[illegible]	[illegible]	[illegible]	[illegible]
500	30	5,814	-11.1	[illegible]	29	6.5
450	30	6,615	-16.5	-31.3	28	7.9
400	30	[illegible]	-23.0	-35.5	[illegible]	[illegible]
350	[illegible]	[illegible]	-30.1	[illegible]	28	10.3
300	[illegible]	9,528	[illegible]	-46.4	28	13.0
250	[illegible]	10,762	[illegible]		27	14.7
200	[illegible]	12,213	-55.0		27	18.1
175	[illegible]	[illegible]	-58.4		27	[illegible]
150	[illegible]	14,022	[illegible]		27	10.6
125	[illegible]	15,150	[illegible]		[illegible]	13.2
100	24	16,507	-66.1		28	8.4
80	[illegible]	17,864	-64.0		[illegible]	[illegible]
70	24	18,687	-61.7		[illegible]	[illegible]
60	24	19,647	-59.6		[illegible]	[illegible]
50	23	20,795	[illegible]		[illegible]	[illegible]
40	23	22,214	-55.2		09	6.2
30	[illegible]	24,059	[illegible]		[illegible]	[illegible]
25	21	25,241	-50.4		09	[illegible]
20	18	[illegible]	[illegible]		09	[illegible]
15	[illegible]	[illegible]	[illegible]		09	9.7
10	[illegible]	31,375	-41.0			

RAWINSONDE DATA

Average monthly values

NASHVILLE, TN
[illegible] MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	30	[illegible]	15.7	14.1	36	.3
1000	10	[illegible]	14.0	11.1		
950	30	597	16.2	11.5	15	.4
900	30	1,056	13.9	[illegible]	24	.9
850	30	1,536	11.8	5.2	26	[illegible]
800	30	[illegible]	10.3	-.3	27	3.4
750	30	2,578	7.9	-2.8	27	4.7
700	30	3,145	5.0	-7.1	26	5.9
650	30	3,746	2.0	-11.6	26	6.9
600	30	4,398	-1.7	-15.1	25	7.8
550	30	5,075	-5.6	-19.3	25	8.5
500	30	5,816	-10.4	-24.8	25	9.9
450	30	6,620	-15.4	-29.2	25	10.8
400	30	7,499	-21.7	-34.9	25	[illegible]
350	30	8,472	-28.8	-40.6	25	14.3
300	30	[illegible]	-36.8	-47.4	25	17.4
250	30	10,792	-45.9		25	[illegible]
200	29	12,250	-54.9		25	21.5
175	29	13,095	-59.5		25	20.6
150	28	14,051	-63.0		25	[illegible]
125	28	15,163	-66.4		26	14.1
100	28	16,511	-66.7		25	9.9
80	28	17,868	-63.5		26	3.2
70	29	18,694	-61.0		[illegible]	.1
60	28	19,655	-59.4		[illegible]	[illegible]
50	28	20,803	-57.5		09	[illegible]
40	29	22,220	-55.1		09	7.3
30	28	24,074	-52.0		09	[illegible]
25	28	25,260	-49.9		[illegible]	9.6
20	23	26,739	-47.1		09	10.5
15	19	[illegible]	-45.0		09	[illegible]
10	11	31,401	-40.3			

* NOME, AK
[illegible] MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	24	5	1.4	-3.6	02	2.3
1000	21	[illegible]	2.8	-2.0		
950	24	[illegible]	[illegible]	-4.0	[illegible]	3.3
900	24	941	-1.3	-5.2	09	2.1
850	24	1,395	-2.8	-7.1	11	2.4
800	24	1,875	-4.5	-10.5	11	1.6
750	24	2,381	-6.9	-13.4	11	1.1
700	24	2,917	-9.9	-17.3	11	1.7
650	24	3,486	-12.8	-21.3	11	1.4
600	24	4,092	-16.5	-25.1	11	1.4
550	24	4,741	-20.7	-30.4	11	1.2
500	24	5,439	-25.3	-34.1	10	1.5
450	24	6,196	-30.5	-39.7	10	.8
400	24	7,023	-36.4	-44.6	13	.5
350	24	7,939	-42.8		[illegible]	.6
300	24	8,961	-49.7		31	2.3
250	24	10,141	-52.6		32	4.3
200	24	11,596	-49.4		30	4.8
175	24	12,471	-49.0		31	5.0
150	24	13,485	-49.0		30	5.3
125	23	14,675	-49.5		29	5.2
100	23	16,137	-49.5		28	5.3
80	23	17,596	-50.2		28	4.3
70	23	18,467	-50.5		28	5.0
60	23	19,472	-51.0		28	5.6
50	23	20,657	-51.6		28	5.1
40	23	22,103	-52.1		28	4.9
30	23	23,966	-52.1		29	4.8
25	23	25,146	-52.4		29	4.7
20	19	26,599	-51.6		28	4.5
15	19	28,468	-51.2		29	5.8
10	12	31,139	-47.7			

NORTH PLATTE, NE
9[illegible] MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	30	847	9.0	4.9	35	.5
900	30	1,045	12.2	4.4	29	1.1
850	30	1,524	12.3	.0	29	2.6
800	30	2,031	[illegible]	-2.1	30	4.1
750	30	2,566	7.6	-5.0	30	5.5
700	30	3,131	4.0	-8.5	30	6.9
650	30	3,730	.7	-12.8	30	8.2
600	30	4,368	-3.6	-16.7	30	9.1
550	30	5,050	-8.0	-20.1	29	9.2
500	30	5,783	-13.2	-25.4	29	10.4
450	30	6,577	-18.7	-32.3	29	11.7
400	30	7,443	-25.5	-38.6	29	13.2
350	30	8,401	-32.9	-46.5	29	13.9
300	30	9,444	-41.1	-49.5	29	15.7
250	30	10,682	-49.1		29	19.1
200	30	12,125	-55.2		28	21.4
175	30	12,974	-57.3		28	20.1
150	30	13,944	-59.6		28	18.7
125	30	15,076	-62.6		28	15.9
100	30	16,448	-63.4		28	11.0
80	30	17,824	-61.3		29	6.2
70	30	18,654	-60.4		29	4.2
60	30	19,620	-58.7		28	2.6
50	30	20,771	-56.4		28	1.1
40	28	22,202	-54.2		28	.5
30	27	24,058	-51.9		09	2.3
25	27	25,244	[illegible]		09	[illegible]
20	26	26,705	-48.6		07	3.8
15	24	28,611	-46.0		09	3.9
10	19	31,323	-43.2		09	3.1
7	11	33,746	-40.5			

OAKLAND, CA
1014 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	30	6	13.4	11.7	29	1.0
1000	30	125	13.4	10.8	28	1.2
950	30	559	17.3	3.8	27	1.8
900	30	1,026	21.7	-1.8	26	1.5
850	30	1,518	19.0	-4.0	22	1.6
800	30	2,035	15.7	-6.0	21	2.7
750	30	2,579	12.0	-8.3	19	3.4
700	30	3,151	7.9	-11.3	18	3.9
650	30	3,758	3.7	-15.3	17	4.3
600	30	4,402	-.6	-19.3	18	3.7
550	30	5,091	-5.3	-24.1	20	3.1
500	30	5,832	-10.5	-28.7	22	3.4
450	30	6,634	-16.2	-34.0	22	4.3
400	30	7,509	-22.8	-39.6	23	5.4
350	30	8,477	-30.2	-45.4	23	7.4
300	30	9,552	-38.6	-51.6	24	9.1
250	30	10,782	-47.0		24	12.0
200	30	12,237	-53.9		25	13.8
175	30	13,088	-57.5		25	14.5
150	30	14,053	-61.1		25	12.6
125	30	15,177	-64.5		26	9.6
100	30	16,531	-66.9		27	4.0
80	30	17,880	-65.9		34	1.3
70	29	18,695	-63.9		04	2.0
60	29	19,646	-61.4		06	2.3
50	28	20,784	-58.6		07	2.7
40	28	22,194	-56.5		08	3.4
30	28	24,035	-52.9		08	5.5
25	26	25,214	-51.4		08	6.1
20	22	26,677	-49.3		09	7.1
15	21	28,568	-47.4		10	6.9
10	15	31,259	-44.6		08	5.8

OMAHA, NE
97[illegible] MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	30	403	12.2	9.2	16	.4
950	30	584	14.1	6.8	23	1.0
900	30	1,041	13.3	3.2	27	4.2
850	30	1,520	10.6	.8	29	4.8
800	30	2,024	8.6	-2.5	29	5.8
750	30	2,556	5.9	-5.6	29	6.6
700	30	3,118	3.1	-10.0	29	7.5
650	29	3,715	-.3	-13.8	29	7.9
600	29	4,350	-4.0	-18.8	29	9.0
550	29	5,032	-8.3	-21.9	29	9.9
500	29	5,764	-13.4	-26.2	29	11.2
450	29	6,559	-18.5	-32.4	29	12.8
400	29	7,426	-25.0	-39.0	28	13.8
350	29	8,385	-32.3	-45.3	27	15.3
300	29	9,452	-40.4	-50.5	27	16.7
250	28	10,665	-48.8		27	18.9
200	28	12,110	-54.7		28	18.8
175	28	12,961	-56.5		28	19.6
150	28	13,935	-58.6		28	17.6
125	27	15,078	-61.5		28	14.3
100	27	16,459	-61.6		28	9.6
80	27	17,843	-60.7		28	6.2
70	27	18,677	-59.0		28	4.4
60	27	19,648	-57.6		28	2.9
50	27	20,804	-56.0		28	1.8
40	25	22,234	-53.7		34	.2
30	23	24,097	-51.5		09	2.4
25	23	25,286	-49.6		08	3.4
20	22	26,750	-47.9		08	3.9
15	19	28,666	-45.3		08	3.1
10	11	31,352	-42.4			

PAGO PAGO, AMERICAN SAMOA
1014 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	30	5	28.2	22.7	09	6.7
1000	30	126	25.5	20.2	09	6.9
950	30	576	21.9	18.1	08	7.5
900	30	1,044	18.6	14.2	07	8.3
850	30	1,533	15.6	10.2	08	8.2
800	30	[illegible]	13.5	5.1	09	7.4
750	30	2,589	11.3	-1.9	08	6.4
700	30	3,162	8.3	-7.2	08	5.8
650	30	3,771	5.2	-9.6	08	5.3
600	30	4,420	2.1	-15.1	08	5.2
550	30	5,118	-1.8	-20.3	09	[illegible]
500	30	[illegible]	-6.6	-25.6	07	[illegible]
450	30	[illegible]	-11.9	[illegible]	08	1.7
400	30	7,575	-18.3	-35.4	[illegible]	.9
350	30	8,560	-25.6	-41.6	24	2.9
300	30	9,655	-34.4	[illegible]	23	7.7
250	30	10,906	-43.8		24	12.9
200	30	12,367	-55.3		25	14.2
175	30	13,207	-61.4		26	13.6
150	30	[illegible]	-67.7		25	11.4
125	30	15,233	-72.4		26	[illegible]
100	30	16,535	-74.5		27	3.7
80	30	17,840	-71.3		06	.1
70	30	18,635	-68.9		12	1.6
60	30	19,563	-66.1		10	1.1
50	30	[illegible]	-62.9		34	[illegible]
40	30	22,062	[illegible]		29	2.8
30	28	[illegible]	-56.5		[illegible]	2.3
25	29	25,035	-53.8		29	3.0
20	26	[illegible]	-49.4		28	3.7
15	21	28,392	-44.9		28	6.5
10	7	31,162	-40.6			

* PEORIA, IL
996 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	30	209	11.7	9.3	15	[illegible]
1000	5	214	[illegible]	5.2		
950	30	595	14.0	7.3	27	2.0
900	30	1,050	12.0	5.0	28	4.0
850	30	1,526	9.3	1.0	28	5.0
800	30	2,028	[illegible]	-3.8	29	5.7
750	30	2,556	4.8	-7.8	29	6.9
700	30	3,116	2.2	-11.5	29	7.9
650	30	3,712	-.8	-12.0	28	9.7
600	30	4,347	-4.2	-17.2	28	11.1
550	30	5,028	-8.2	-21.3	28	12.0
500	30	5,762	-12.7	-26.6	28	12.6
450	30	6,558	-18.3	-32.7	28	13.5
400	30	7,426	-24.8	-39.4	27	14.9
350	30	8,385	-32.2	-44.9	27	16.1
300	30	9,452	-40.5	-47.4	27	18.6
250	30	10,672	-48.5		26	21.4
200	30	12,117	-55.3		26	25.0
175	30	12,964	-57.5		26	23.7
150	29	13,931	-59.6		27	20.7
125	28	15,001	-62.1		27	15.2
100	28	16,437	-62.6		27	10.8
80	[illegible]	17,814	-60.6		27	6.2
70	26	18,647	-59.3		26	5.3
60	26	19,617	-57.6		27	2.4
50	25	20,771	-56.0		30	.4
40	25	22,197	-54.2		12	1.2
30	22	24,043	-52.3		08	2.2
25	20	25,227	-50.1		08	3.0
20	17	26,676	-48.0		08	3.6
15	10	28,600	-45.5			

* PITTSBURGH, PA
977 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	30	359	12.5	10.0	27	.6
950	30	598	13.3	9.0	26	1.8
900	30	1,053	11.3	6.5	25	3.7
850	30	1,529	9.3	1.7	26	5.8
800	30	2,030	7.4	-2.3	26	7.9
750	30	2,560	5.5	-6.0	26	10.3
700	30	3,122	3.0	-9.5	26	11.8
650	30	3,720	.6	-13.8	26	13.4
600	30	4,359	-2.9	-17.3	26	15.6
550	30	5,043	-6.7	-21.2	26	16.7
500	30	5,781	-11.3	-26.0	25	19.1
450	30	6,582	-16.6	-31.4	26	20.3
400	30	7,457	-22.6	[illegible]	25	22.5
350	30	[illegible]	-29.9	-41.7	26	24.7
300	30	9,502	-38.0	-48.6	25	27.4
250	29	10,736	-46.8		26	30.1
200	28	12,187	-55.0		26	31.9
175	28	13,033	[illegible]		26	31.5
150	27	13,990	-60.4		26	26.2
125	27	15,118	-63.2		26	21.0
100	26	16,487	-62.6		26	14.0
80	25	17,872	-60.0		26	7.6
70	24	18,708	-58.6		25	4.9
60	24	19,680	-57.0		24	1.5
50	23	20,840	-54.9		17	.4
40	22	22,276	-53.6		09	2.4
30	21	24,137	-50.8		08	4.9
25	20	25,331	-49.1		08	5.3
20	17	26,814	-46.8		08	4.7
15	11	28,707	-44.2			

PONAPE, CAROLINE IS.
1005 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	30	39	27.8	23.8	09	2.1
1000	30	82	26.4	22.2	09	2.6
950	30	535	23.3	20.2	10	5.3
900	30	1,006	20.2	17.4	11	7.6
850	30	1,498	17.2	14.0	10	8.5
800	30	2,015	14.8	10.3	10	8.1
750	30	2,560	12.3	6.2	10	7.8
700	30	3,135	8.9	1.9	09	7.9
650	30	3,747	5.8	-2.4	10	7.9
600	30	4,398	2.2	-5.1	10	7.3
550	30	5,097	-1.4	-8.1	10	6.0
500	30	5,851	-5.6	-12.3	09	5.5
450	30	6,671	-10.1	-19.4	09	4.9
400	30	7,569	-16.0	-25.7	08	3.6
350	30	8,566	-22.4	-32.5	08	3.3
300	30	9,677	-30.8	-42.0	07	1.7
250	30	10,944	-41.0	-50.6	06	1.0
200	30	12,420	-53.6		32	1.5
175	30	13,266	-60.4		30	2.2
150	30	14,209	-68.1		28	4.9
125	30	15,285	-75.0		27	6.1
100	30	16,568	-76.4		08	2.9
80	30	17,865	-72.5		08	6.9
70	30	18,658	-68.3		09	5.3
60	30	19,592	-65.2		11	2.0
50	29	20,706	-62.4		14	[illegible]
40	26	22,094	-59.6		23	.9
30	26	23,909	-55.7		30	.7
25	25	25,079	-53.3		08	1.3
20	23	26,521	-50.6		11	2.9
15	14	28,401	-47.8		12	4.7
10	6	31,085	-44.6			

PORTLAND, ME
1017 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	30	20	11.1	9.8	29	.9
1000	30	160	13.2	8.8	28	1.3
950	30	591	12.0	4.9	27	2.6
900	30	1,043	9.8	2.2	26	3.3
850	30	1,516	8.0	-2.1	26	5.3
800	30	2,015	6.1	-4.0	25	7.2
750	30	2,542	4.0	-6.3	25	9.6
700	30	3,101	1.4	-9.6	25	11.8
650	30	3,695	-1.4	-12.3	25	14.0
600	30	4,329	-4.8	-16.8	25	15.9
550	30	5,009	-8.5	-20.6	25	18.4
500	30	5,742	-13.0	-25.3	25	20.9
450	30	6,538	-18.0	-30.5	25	23.7
400	30	7,408	-24.0	-35.5	25	26.1
350	30	8,373	-30.7	-42.9	25	28.6
300	30	9,447	-38.3	-46.8	25	30.0
250	30	10,679	-46.9		25	30.3
200	30	12,132	-54.5		26	32.1
175	30	12,981	-57.4		26	28.3
150	30	13,950	-59.6		26	24.0
125	30	15,086	-61.3		26	19.9
100	30	16,471	-60.9		26	15.0
80	30	17,863	-59.1		26	8.9
70	30	18,703	-57.5		26	6.9
60	30	19,680	-56.4		25	4.5
50	30	20,841	-55.1		26	2.5
40	30	22,270	-54.0		29	.8
30	28	24,125	-51.9		04	2.2
25	27	25,312	-50.4		06	1.4
20	21	26,777	-48.5		03	1.2
15	20	28,687	-46.2		07	1.0
10	12	31,354	-43.4			

* QUILLAYUTE, WA
[illegible] MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	29	[illegible]	9.4	[illegible]	10	.8
1000	29	[illegible]	12.7	8.4	07	1.3
950	29	597	14.1	4.5	[illegible]	1.5
900	29	1,053	13.3	.1	33	.9
850	29	1,532	11.8	-3.0	31	[illegible]
800	29	2,038	[illegible]	-8.0	31	2.0
750	29	2,572	7.5	-10.4	[illegible]	2.4
700	29	3,136	3.9	-13.8	[illegible]	3.1
650	29	3,734	.4	-16.9	[illegible]	4.5
600	29	4,371	-3.6	-20.6	[illegible]	5.6
550	29	5,053	-8.1	-23.7	29	6.5
500	29	5,786	-12.9	-27.9	28	7.5
450	29	6,581	-18.5	-32.2	29	[illegible]
400	29	7,448	-25.1	-38.4	29	9.3
350	29	8,406	-32.9	-44.9	29	11.5
300	29	9,468	-41.8		29	[illegible]
250	29	10,678	-51.0		29	12.7
200	29	12,105	-57.9		[illegible]	14.1
175	29	12,946	-58.5		28	13.3
150	29	13,913	-59.3		28	14.0
125	29	15,052	-60.7		[illegible]	[illegible]
100	29	16,437	-61.5		[illegible]	[illegible]
80	28	17,822	-60.9		29	5.6
70	28	18,654	-59.9		[illegible]	[illegible]
60	28	19,620	-58.9		30	3.3
50	28	20,767	-57.7		31	[illegible]
40	26	22,183	-56.0		31	1.8
30	[illegible]	24,022	-52.9		31	1.6
25	28	[illegible]	-51.4		28	2.7
20	23	[illegible]	-49.6		28	3.8
15	[illegible]	28,558	-47.3		27	9.5

RAPID CITY, SD
909 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	30	966	8.7	1.2	21	2.1
900	28	1,052	10.8	1.3	32	3.0
850	30	1,525	11.9	.7	30	4.4
800	30	[illegible]	[illegible]	-2.0	31	6.6
750	30	2,562	6.1	-6.3	31	[illegible]
700	30	3,124	2.8	-10.7	[illegible]	7.3
650	30	3,720	-.3	-14.6	31	7.9
600	30	4,356	[illegible]	-17.5	30	9.0
550	30	5,035	[illegible]	-21.9	30	[illegible]
500	30	[illegible]	-14.5	-29.2	30	11.2
450	30	6,555	-20.2	-34.1	30	[illegible]
400	30	7,416	-26.6	-40.4	30	13.5
350	30	8,369	-33.9	-46.8	30	14.7
300	30	9,428	-42.1	-52.6	30	16.0
250	30	10,639	[illegible]		[illegible]	17.8
200	30	12,078	-55.3		29	19.2
175	30	12,926	[illegible]		29	19.0
150	30	13,896	[illegible]		29	18.7
125	30	15,034	-60.8		29	15.5
100	30	16,419	-61.3		30	10.7
80	30	17,805	-60.5		29	6.7
70	30	18,639	[illegible]		29	5.3
60	30	19,607	-58.2		29	3.8
50	30	[illegible]	-56.9		29	3.7
40	29	22,176	-55.0		29	3.1
30	28	24,029	-52.3		28	2.0
25	28	25,214	-50.6		27	1.2
20	27	26,672	-49.1		22	.4
15	22	28,587	-46.8		29	1.5
10	13	31,281	-43.5			

ST CLOUD, MN
981 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	30	316	8.0	6.7	29	.8
950	30	583	10.8	5.7	27	2.9
900	30	1,033	8.6	3.3	27	4.6
850	30	1,504	6.3	-1.2	28	5.7
800	30	2,000	4.8	-6.4	29	6.6
750	30	[illegible]	2.5	-10.4	29	7.5
700	30	3,079	-.2	-14.1	29	8.8
650	30	3,668	-3.5	-18.0	29	10.3
600	30	4,297	-7.0	-21.0	29	11.7
550	30	4,970	-11.4	-24.4	29	13.0
500	30	5,694	-16.3	-29.6	29	13.8
450	30	6,480	-21.5	-35.4	29	15.0
400	30	7,337	-27.9	-41.2	29	16.9
350	30	8,285	-35.4	-46.4	29	18.2
300	30	9,337	-43.4	-50.9	29	19.7
250	30	10,545	-50.2		28	22.2
200	30	11,986	-54.1		28	21.9
175	30	12,841	-54.8		28	19.3
150	30	13,823	-56.5		28	18.5
125	30	14,975	-58.4		28	15.5
100	30	16,377	-58.7		28	10.3
80	30	17,791	-58.0		29	6.9
70	30	18,624	-57.1		28	6.2
60	30	19,602	-56.2		28	4.7
50	30	20,764	-54.9		27	3.8
40	30	22,197	-53.0		27	3.3
30	30	24,060	-51.2		26	2.4
25	29	25,249	-50.2		27	1.9
20	29	26,712	-48.2		29	.8
15	25	28,610	-46.2		26	.9
10	8	31,298	-43.9			

* ST PAUL ISLAND, AK
1010 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	30	10	5.3	3.2	35	3.7
1000	26	107	5.1	2.2	36	3.9
950	30	508	2.2	.8	35	4.6
900	30	943	-.3	-3.3	35	4.7
850	30	1,399	-1.3	-11.5	34	4.0
800	30	1,881	-3.5	-13.9	35	3.7
750	30	2,389	-5.5	-18.8	33	4.1
700	30	2,927	-8.1	-19.9	33	4.0
650	30	3,500	-11.1	-24.0	32	4.0
600	30	4,110	-14.6	-27.0	31	4.5
550	30	4,764	-18.8	-30.9	31	4.7
500	30	5,468	-23.2	-35.5	31	5.4
450	30	6,231	-28.3	-39.7	31	5.3
400	30	7,066	-34.3	-44.3	30	4.6
350	30	7,991	-40.5	-43.5	29	4.4
300	30	9,023	-47.1		29	5.6
250	30	10,220	-50.3		29	8.6
200	30	11,680	-49.2		28	8.4
175	30	12,557	-49.0		27	8.6
150	30	13,568	-49.7		27	7.5
125	30	14,759	-50.4		27	6.8
100	30	16,215	-50.8		26	5.8
80	30	17,666	-51.3		26	4.8
70	30	18,534	-51.5		25	4.3
60	30	19,534	-51.8		25	4.0
50	30	20,718	-51.9		25	4.2
40	30	22,162	-51.9		25	3.5
30	29	24,024	-51.9		26	4.5
25	29	25,206	-51.6		27	4.8
20	26	26,646	-51.2		27	5.5
15	24	28,533	-50.0		28	6.2
10	13	31,235	-47.0		27	8.2

SALEM, IL
998 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m ps
SFC	30	174	13.9	10.6	05	.4
1000	10	192	13.3	6.1	11	.9
950	30	594	16.0	9.1	26	1.7
900	30	1,051	13.4	6.8	29	2.9
850	30	1,531	10.6	1.1	30	3.9
800	30	2,035	9.1	-4.4	29	4.9
750	30	2,567	6.7	-6.5	28	5.6
700	30	3,131	4.0	-9.7	28	6.3
650	30	3,730	.8	-13.2	28	7.3
600	30	4,369	-2.8	-17.0	28	7.8
550	30	5,054	-6.8	-21.1	27	8.7
500	30	5,792	-11.3	-26.7	27	10.4
450	30	6,592	-16.6	-32.0	27	13.0
400	28	7,471	-22.9	-36.6	27	16.0
350	28	8,439	-29.9	-41.8	26	17.7
300	28	9,515	-38.3	-46.2	26	20.3
250	27	10,739	-47.2		26	23.6
200	27	12,191	-54.6		26	24.9
175	27	13,039	-57.7		26	24.5
150	27	14,006	-60.5		26	20.9
125	27	15,134	-63.2		26	16.1
100	27	16,503	-63.7		27	10.3
80	26	17,880	-61.0		26	5.3
70	26	18,713	-59.1		[illegible]	2.7
60	24	19,685	-57.5		18	.3
50	23	20,843	-55.8		09	2.8
40	23	22,271	-53.8		09	4.6
30	23	24,131	-51.0		09	7.0
25	23	25,323	-49.2		09	7.9
20	19	26,790	-46.6		09	8.1
15	13	28,708	-43.9		09	7.1

RAWINSONDE DATA

Average monthly values

DECEMBER 19[illegible]

SALEM, OR

Standard pressure surface (mb)	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s.
SFC	30	[illegible]	[illegible]	[illegible]	33	.5
1000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.3
950	30	545	15.5	[illegible]	33	3.
900	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
850	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.
800	[illegible]	[illegible]	[illegible]	[illegible]	33	1.
750	30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
700	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
650	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
600	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
550	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
500	[illegible]	5,817	[illegible]	[illegible]	[illegible]	4.
450	[illegible]	[illegible]	[illegible]	[illegible]	3	5.
400	[illegible]	7,488	[illegible]	[illegible]	[illegible]	[illegible]
350	30	[illegible]	[illegible]	[illegible]	3	[illegible]
300	[illegible]	[illegible]	[illegible]	[illegible]	3	[illegible]
250	[illegible]	10,732	-50.0		29	7.8
200	[illegible]	12,165	-57.3		28	[illegible]
175	[illegible]	[illegible]	[illegible]		28	[illegible]
150	[illegible]	13,974	-59.6		28	[illegible]
125	[illegible]	15,110	[illegible]		28	[illegible]
100	[illegible]	16,487	[illegible]		[illegible]	[illegible]
80	[illegible]	17,864	-62.0		[illegible]	[illegible]
70	[illegible]	18,692	-61.1		31	[illegible]
60	[illegible]	19,653	[illegible]		33	[illegible]
50	[illegible]	20,798	-58.1		34	[illegible]
40	[illegible]	[illegible]	-56.4		[illegible]	[illegible]
30	[illegible]	24,047	-53.1		[illegible]	[illegible]
25	[illegible]	25,226	-51.7		[illegible]	[illegible]
20	[illegible]	[illegible]	-49.6		[illegible]	[illegible]
15	[illegible]	28,577	-47.5		[illegible]	[illegible]
10	9	31,305	[illegible]			

SALT LAKE CITY, UT

Standard pressure surface (mb)	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s.
SFC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
850	[illegible]	[illegible]	16.7	[illegible]	[illegible]	3.3
800	[illegible]	[illegible]	14.6	[illegible]	[illegible]	1.9
750	[illegible]	[illegible]	10.8	[illegible]	[illegible]	2.1
700	[illegible]	3,157	[illegible]	[illegible]	[illegible]	3.1
650	[illegible]	[illegible]	2.1	[illegible]	[illegible]	4.9
600	[illegible]	4,401	-2.4	[illegible]	[illegible]	5.2
550	[illegible]	5,085	-7.1	[illegible]	[illegible]	[illegible]
500	[illegible]	5,821	-12.1	[illegible]	[illegible]	6.2
450	[illegible]	[illegible]	[illegible]	-32.1	[illegible]	6.7
400	[illegible]	7,490	-24.1	[illegible]	[illegible]	7.4
350	[illegible]	8,452	-31.5	[illegible]	[illegible]	8.5
300	[illegible]	9,521	[illegible]	[illegible]	[illegible]	[illegible]
250	[illegible]	[illegible]	[illegible]		[illegible]	14.3
200	[illegible]	12,193	[illegible]		[illegible]	17.4
175	[illegible]	13,039	-58.2		[illegible]	17.7
150	[illegible]	14,003	-61.1		[illegible]	15.9
125	[illegible]	15,127	-64.2		[illegible]	13.3
100	[illegible]	16,486	-65.3		[illegible]	9.2
80	[illegible]	17,844	-63.8		[illegible]	[illegible]
70	[illegible]	18,667	-61.7		[illegible]	3.3
60	[illegible]	19,627	[illegible]		[illegible]	.4
50	[illegible]	20,771	[illegible]		[illegible]	1.1
40	[illegible]	[illegible]	-55.5		[illegible]	[illegible]
30	[illegible]	24,030	-53.0		[illegible]	[illegible]
25	[illegible]	[illegible]	-51.4		[illegible]	[illegible]
20	[illegible]	26,667	-49.3		[illegible]	[illegible]
15	[illegible]	[illegible]	-47.5		[illegible]	[illegible]
10	8	[illegible]	-44.2		[illegible]	[illegible]
7	8	[illegible]	-41.3			

[illegible]

Standard pressure surface (mb)	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s.
SFC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.9
950	[illegible]	546	[illegible]	[illegible]	[illegible]	[illegible]
900	[illegible]	[illegible]	21.7	[illegible]	[illegible]	[illegible]
850	[illegible]	[illegible]	20.5	[illegible]	[illegible]	.7
800	[illegible]	2,029	[illegible]	[illegible]	[illegible]	[illegible]
750	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
700	[illegible]	3,150	[illegible]	[illegible]	[illegible]	[illegible]
650	[illegible]	3,757	4.2	[illegible]	[illegible]	[illegible]
600	[illegible]	4,403	[illegible]	[illegible]	[illegible]	[illegible]
550	[illegible]	5,096	[illegible]	[illegible]	[illegible]	[illegible]
500	[illegible]	[illegible]	-8.8	[illegible]	[illegible]	[illegible]
450	[illegible]	[illegible]	-14.0	[illegible]	[illegible]	[illegible]
400	[illegible]	7,532	-20.7	[illegible]	[illegible]	[illegible]
350	[illegible]	8,507	[illegible]	[illegible]	[illegible]	8.6
300	[illegible]	9,592	-36.1	[illegible]	[illegible]	10.9
250	[illegible]	10,837	-44.2		[illegible]	14.2
200	[illegible]	[illegible]	-53.5		[illegible]	15.8
175	[illegible]	13,153	[illegible]		[illegible]	15.4
150	[illegible]	[illegible]	-63.6		[illegible]	13.6
125	[illegible]	15,218	-68.1		[illegible]	9.5
100	[illegible]	16,548	-70.7		[illegible]	3.6
80	[illegible]	17,877	-68.3		[illegible]	[illegible]
70	[illegible]	18,685	-64.6		[illegible]	[illegible]
60	[illegible]	[illegible]	-61.8		[illegible]	[illegible]
50	[illegible]	20,767	[illegible]		[illegible]	[illegible]
40	[illegible]	22,171	-57.2		[illegible]	[illegible]
30	[illegible]	24,005	-53.9		[illegible]	11.9
25	[illegible]	[illegible]	-51.9		[illegible]	12.3
20	[illegible]	20,635	[illegible]		[illegible]	13.3
15	[illegible]	28,534	-46.8		[illegible]	[illegible]
10	[illegible]	31,240	-43.8		[illegible]	[illegible]
7	8	33,623	-40.9			

[illegible]

Standard pressure surface (mb)	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s.
SFC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1000	[illegible]	127	[illegible]	[illegible]	[illegible]	[illegible]
950	[illegible]	576	[illegible]	[illegible]	[illegible]	[illegible]
900	[illegible]	1,045	[illegible]	[illegible]	[illegible]	[illegible]
850	[illegible]	1,535	[illegible]	[illegible]	[illegible]	[illegible]
800	[illegible]	2,050	13.9	[illegible]	[illegible]	[illegible]
750	[illegible]	2,592	[illegible]	[illegible]	[illegible]	[illegible]
700	[illegible]	3,164	7.8	[illegible]	[illegible]	[illegible]
650	[illegible]	3,773	4.9	[illegible]	[illegible]	[illegible]
600	[illegible]	[illegible]	1.2	[illegible]	[illegible]	[illegible]
550	[illegible]	5,116	-2.9	[illegible]	[illegible]	[illegible]
500	[illegible]	5,864	-7.7	[illegible]	[illegible]	[illegible]
450	[illegible]	[illegible]	-12.8	[illegible]	[illegible]	[illegible]
400	[illegible]	[illegible]	-19.1	[illegible]	[illegible]	[illegible]
350	[illegible]	[illegible]	-26.1	[illegible]	[illegible]	[illegible]
300	[illegible]	[illegible]	-34.4	[illegible]	[illegible]	[illegible]
250	[illegible]	[illegible]	-44.5		[illegible]	[illegible]
200	[illegible]	[illegible]	-55.9		[illegible]	[illegible]
175	[illegible]	13,188	-61.6		[illegible]	[illegible]
150	[illegible]	[illegible]	-67.3		[illegible]	[illegible]
125	[illegible]	[illegible]	-71.3		[illegible]	[illegible]
100	28	16,527	[illegible]		[illegible]	[illegible]
80	[illegible]	17,835	[illegible]		[illegible]	[illegible]
70	[illegible]	[illegible]	-68.4		[illegible]	[illegible]
60	[illegible]	19,562	-65.6		[illegible]	[illegible]
50	[illegible]	20,680	-62.4		[illegible]	[illegible]
40	[illegible]	[illegible]	-59.7		[illegible]	[illegible]
30	[illegible]	[illegible]	-54.7		[illegible]	[illegible]
25	[illegible]	[illegible]	-52.9		[illegible]	[illegible]
20	[illegible]	[illegible]	-50.9		[illegible]	[illegible]
15	24	28,391	-46.2		[illegible]	[illegible]
10	[illegible]	[illegible]	-42.5		[illegible]	[illegible]

SAULT STE MARIE, MI

Standard pressure surface (mb)	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s.
SFC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
950	[illegible]	[illegible]	[illegible]	4.8	[illegible]	[illegible]
900	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
850	[illegible]	1,485	[illegible]	-2.7	[illegible]	[illegible]
800	[illegible]	[illegible]	[illegible]	-6.7	[illegible]	[illegible]
750	[illegible]	2,490	[illegible]	-8.6	[illegible]	[illegible]
700	[illegible]	3,040	-2.9	[illegible]	[illegible]	[illegible]
650	[illegible]	3,630	[illegible]	[illegible]	[illegible]	[illegible]
600	[illegible]	4,254	-9.2	[illegible]	[illegible]	[illegible]
550	[illegible]	[illegible]	[illegible]	-27.3	[illegible]	[illegible]
500	[illegible]	5,642	[illegible]	-30.9	[illegible]	[illegible]
450	[illegible]	6,422	[illegible]	-35.9	[illegible]	[illegible]
400	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
350	[illegible]	8,216	[illegible]	[illegible]	[illegible]	[illegible]
300	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	20.9
250	[illegible]	10,486	[illegible]		[illegible]	25.3
200	[illegible]	11,944	[illegible]		[illegible]	[illegible]
175	[illegible]	12,808	[illegible]		[illegible]	[illegible]
150	[illegible]	13,801	[illegible]		[illegible]	[illegible]
125	[illegible]	14,967	[illegible]		[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
80	[illegible]	17,794	[illegible]		[illegible]	[illegible]
70	[illegible]	18,644	[illegible]		[illegible]	[illegible]
60	[illegible]	19,628	[illegible]		[illegible]	[illegible]
50	[illegible]	20,797	[illegible]		[illegible]	[illegible]
40	[illegible]	22,235	[illegible]		[illegible]	[illegible]
30	[illegible]	24,094	[illegible]		[illegible]	3.9
25	[illegible]	25,284	[illegible]		[illegible]	2.7
20	[illegible]	26,758	[illegible]		[illegible]	[illegible]
15	[illegible]	28,666	[illegible]		[illegible]	[illegible]
10	[illegible]	31,318	[illegible]		[illegible]	[illegible]
7	8	33,689	[illegible]			

SPOKANE, WA
935 MB

Standard pressure surface (mb)	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s.
SFC	30	[illegible]	9.7	3.4	12	[illegible]
1000						
950						
900	30	1,046	15.2	.6	08	1.3
850	30	1,528	13.2	-2.7	01	[illegible]
800	30	2,035	10.1	-5.8	30	[illegible]
750	30	[illegible]	6.8	-9.8	29	[illegible]
700	30	3,131	3.6	-14.9	29	[illegible]
650	30	3,729	.3	-17.7	29	[illegible]
600	30	4,366	-3.8	-21.7	29	[illegible]
550	30	5,048	-8.0	-24.5	29	[illegible]
500	30	5,781	-13.5	-28.7	29	[illegible]
450	30	6,574	-19.0	-34.2	29	[illegible]
400	30	7,439	-25.7	[illegible]	29	[illegible]
350	30	8,396	-33.0	-46.3	[illegible]	[illegible]
300	30	9,458	-41.5	-54.0	[illegible]	[illegible]
250	30	10,672	-49.9		29	[illegible]
200	[illegible]	12,107	-56.6		29	[illegible]
175	[illegible]	12,951	-57.6		29	[illegible]
150	29	[illegible]	-58.8		29	[illegible]
125	29	15,067	-60.3		29	[illegible]
100	29	16,456	-60.8		29	[illegible]
80	29	17,844	-60.5		30	[illegible]
70	[illegible]	18,678	-59.5		30	[illegible]
60	[illegible]	19,645	-58.3		[illegible]	3.7
50	29	20,796	-57.2		31	[illegible]
40	28	22,209	-55.9		[illegible]	2.7
30	[illegible]	24,058	-53.2		28	[illegible]
25	27	25,239	-51.2		28	3.9
20	[illegible]	26,692	-49.6		28	4.7
15	22	28,594	-47.7		28	5.1
10	[illegible]	31,326	-44.9		29	4.3
7	[illegible]	33,741	-42.6			

TAMPA BAY, FL
1014 MB

Standard pressure surface (mb)	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s.
SFC	[illegible]	8	[illegible]	21.8	08	1.6
1000	[illegible]	136	23.5	21.1	10	2.5
950	[illegible]	585	22.3	17.7	13	3.3
900	[illegible]	[illegible]	19.6	14.9	15	3.5
850	[illegible]	1,545	16.7	[illegible]	16	3.7
800	[illegible]	2,060	13.9	7.3	17	4.1
750	[illegible]	2,603	11.3	3.2	16	3.7
700	[illegible]	3,176	8.	-.4	17	3.7
650	[illegible]	3,784	4.6	-4.6	17	[illegible]
600	[illegible]	4,433	.9	-8.9	17	[illegible]
550	[illegible]	5,128	-2.8	-14.8	17	[illegible]
500	[illegible]	5,877	-7.5	-19.0	16	[illegible]
450	[illegible]	6,690	-12.3	-24.8	17	[illegible]
400	[illegible]	[illegible]	-18.3	-30.7	[illegible]	[illegible]
350	[illegible]	8,567	-25.3	-37.2	19	[illegible]
300	[illegible]	9,665	[illegible]	-44.3	[illegible]	[illegible]
250	[illegible]	10,917	-43.7		28	.5
200	[illegible]	12,378	-55.4		[illegible]	[illegible]
175	[illegible]	13,219	-61.1		32	[illegible]
150	[illegible]	14,163	-67.1		34	[illegible]
125	[illegible]	15,250	-71.9		03	[illegible]
100	[illegible]	16,561	-72.5		[illegible]	[illegible]
80	[illegible]	[illegible]	-69.4		[illegible]	[illegible]
70	[illegible]	[illegible]	-66.0		08	[illegible]
60	[illegible]	19,627	-63.5		[illegible]	[illegible]
50	[illegible]	20,753	-60.9		09	[illegible]
40	[illegible]	22,150	-57.7		[illegible]	[illegible]
30	[illegible]	23,977	-54.7		[illegible]	[illegible]
25	[illegible]	25,150	-52.6		[illegible]	[illegible]
20	[illegible]	26,608	-48.4		[illegible]	[illegible]
15	[illegible]	28,509	-45.6		09	[illegible]
10	[illegible]	31,221	-41.5			

TOPEKA, KS

Standard pressure surface (mb)	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s.
SFC	[illegible]	268	[illegible]	[illegible]	[illegible]	.4
1000						
950	[illegible]	596	16.0	[illegible]	[illegible]	.5
900	[illegible]	1,054	14.1	[illegible]	[illegible]	3.5
850	[illegible]	1,535	11.9	.5	[illegible]	3.9
800	[illegible]	2,040	9.6	[illegible]	[illegible]	4.4
750	[illegible]	2,574	7.2	-8.2	[illegible]	4.8
700	[illegible]	3,138	3.9	-9.8	[illegible]	5.9
650	30	3,737	[illegible]	[illegible]	28	7.1
600	[illegible]	4,376	-3.0	[illegible]	[illegible]	7.6
550	[illegible]	5,060	-7.3	[illegible]	[illegible]	8.9
500	[illegible]	5,795	-12.0	[illegible]	[illegible]	10.4
450	[illegible]	6,594	-17.4	[illegible]	[illegible]	11.8
400	[illegible]	7,465	-24.1	[illegible]	[illegible]	13.6
350	[illegible]	8,428	-31.2	[illegible]	[illegible]	15.2
300	[illegible]	9,499	-39.6	[illegible]	[illegible]	16.9
250	[illegible]	10,722	-48.3		[illegible]	19.1
200	[illegible]	12,168	-55.1		[illegible]	19.7
175	[illegible]	13,016	-57.4		[illegible]	[illegible]
150	[illegible]	[illegible]	-60.6		[illegible]	17.3
125	[illegible]	15,111	-62.9		[illegible]	15.2
100	[illegible]	[illegible]	-64.1		[illegible]	9.3
80	[illegible]	17,851	[illegible]		[illegible]	4.6
70	[illegible]	18,682	[illegible]		[illegible]	2.8
60	[illegible]	19,648	[illegible]		[illegible]	1.1
50	[illegible]	[illegible]	-56.2		[illegible]	1.0
40	[illegible]	22,226	-54.5		[illegible]	3.8
30	[illegible]	[illegible]	-52.0		[illegible]	6.1
25	[illegible]	25,262	-50.0		09	6.3
20	[illegible]	[illegible]	-47.5		[illegible]	6.6
15	[illegible]	28,633	-45.7		[illegible]	5.7
10	[illegible]	31,346	-42.6			

TRUK, CAROLINE IS.
1011 MB

Standard pressure surface (mb)	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s.
SFC	30	[illegible]	[illegible]	[illegible]	[illegible]	1.8
1000	[illegible]	96	[illegible]	[illegible]	[illegible]	2.5
950	[illegible]	550	[illegible]	[illegible]	10	[illegible]
900	[illegible]	1,022	[illegible]	17.1	[illegible]	[illegible]
850	[illegible]	1,515	[illegible]	13.7	[illegible]	[illegible]
800	[illegible]	2,032	[illegible]	[illegible]	[illegible]	[illegible]
750	30	2,577	[illegible]	[illegible]	[illegible]	[illegible]
700	[illegible]	3,154	[illegible]	[illegible]	[illegible]	6.5
650	30	3,766	6.0	[illegible]	[illegible]	[illegible]
600	30	4,418	2.3	-3.8	09	[illegible]
550	30	5,117	-1.3	-8.1	09	[illegible]
500	[illegible]	5,872	-5.5	-12.6	[illegible]	[illegible]
450	[illegible]	6,692	-10.1	-18.3	[illegible]	[illegible]
400	[illegible]	7,591	-15.6	-25.9	[illegible]	[illegible]
350	[illegible]	[illegible]	-22.5	-34.2	[illegible]	[illegible]
300	[illegible]	9,699	-31.1	-43.7	[illegible]	[illegible]
250	[illegible]	10,964	[illegible]		[illegible]	[illegible]
200	[illegible]	12,438	[illegible]		[illegible]	[illegible]
175	[illegible]	13,281	[illegible]		35	[illegible]
150	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
125	[illegible]	15,297	[illegible]		[illegible]	[illegible]
100	[illegible]	16,576	-77.0		[illegible]	[illegible]
80	[illegible]	17,876	-72.0		[illegible]	[illegible]
70	30	18,670	[illegible]		[illegible]	[illegible]
60	[illegible]	19,602	[illegible]		[illegible]	[illegible]
50	[illegible]	20,722	[illegible]		[illegible]	[illegible]
40	[illegible]	22,111	[illegible]		[illegible]	.1
30	[illegible]	23,927	[illegible]		13	[illegible]
25	29	25,095	[illegible]		10	1.3
20	[illegible]	26,544	[illegible]		[illegible]	[illegible]
15	23	28,441	[illegible]		[illegible]	[illegible]
10	[illegible]	31,177	[illegible]			

TUCSON, AZ

Standard pressure surface (mb)	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s.
SFC	30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
900	[illegible]	1,017	[illegible]	[illegible]	[illegible]	[illegible]
850	[illegible]	1,515	[illegible]	[illegible]	[illegible]	[illegible]
800	[illegible]	2,037	17.6	[illegible]	[illegible]	[illegible]
750	30	2,585	[illegible]	[illegible]	[illegible]	[illegible]
700	[illegible]	[illegible]	9.0	[illegible]	[illegible]	[illegible]
650	30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
600	[illegible]	4,417	[illegible]	[illegible]	[illegible]	[illegible]
550	30	5,108	-4.4	[illegible]	[illegible]	[illegible]
500	30	5,853	[illegible]	[illegible]	[illegible]	[illegible]
450	[illegible]	[illegible]	-13.9	[illegible]	[illegible]	[illegible]
400	[illegible]	7,545	[illegible]	[illegible]	[illegible]	[illegible]
350	[illegible]	8,526	-27.0	[illegible]	[illegible]	[illegible]
300	[illegible]	9,616	[illegible]	[illegible]	[illegible]	[illegible]
250	[illegible]	10,861	-44.4		[illegible]	[illegible]
200	[illegible]	12,324	-54.0		[illegible]	[illegible]
175	[illegible]	13,171	[illegible]		[illegible]	[illegible]
150	29	14,125	-64.4		[illegible]	[illegible]
125	[illegible]	15,225	-69.7		[illegible]	[illegible]
100	[illegible]	16,545	-71.9		[illegible]	[illegible]
80	[illegible]	17,866	[illegible]		[illegible]	[illegible]
70	[illegible]	18,671	-65.3		[illegible]	3.7
60	[illegible]	19,618	-62.2		[illegible]	5.1
50	[illegible]	20,751	-60.2		[illegible]	6.8
40	[illegible]	22,150	[illegible]		[illegible]	10.2
30	[illegible]	[illegible]	-54.7		[illegible]	12.4
25	28	[illegible]	-52.7		[illegible]	13.0
20	[illegible]	26,599	-50.2		[illegible]	13.8
15	27	28,493	[illegible]		[illegible]	15.3
10	[illegible]	31,199	-43.5		[illegible]	[illegible]

VANDENBERG AFB, CA
1003 MB

Standard pressure surface (mb)	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s.
SFC	[illegible]	[illegible]	12.2	10.9	33	1.4
1000	[illegible]	124	12.6	[illegible]	34	1.5
950	[illegible]	555	18.5	6.6	01	[illegible]
900	[illegible]	1,023	22.4	2.3	03	[illegible]
850	[illegible]	1,518	20.3	.2	06	1.7
800	[illegible]	2,038	16.7	-2.7	11	1.1
750	[illegible]	2,583	12.7	-5.3	15	1.6
700	[illegible]	3,157	8.4	-8.2	[illegible]	[illegible]
650	[illegible]	3,765	4.1	-12.3	15	[illegible]
600	[illegible]	4,410	-.4	-17.1	16	[illegible]
550	[illegible]	[illegible]	-4.8	-21.9	20	1.3
500	[illegible]	[illegible]	-9.6	-26.2	23	[illegible]
450	[illegible]	[illegible]	-15.2	-31.9	24	3.3
400	[illegible]	[illegible]	-21.6	-38.7	25	[illegible]
350	[illegible]	8,499	-29.2	-44.5	25	[illegible]
300	[illegible]	9,579	[illegible]	-50.3	26	9.7
250	[illegible]	10,816	-45.5		[illegible]	12.5
200	[illegible]	12,278	[illegible]		25	13.7
175	[illegible]	13,129	-57.6		[illegible]	[illegible]
150	[illegible]	14,091	-62.2		[illegible]	11.1
125	[illegible]	15,206	-66.6		[illegible]	[illegible]
100	[illegible]	16,546	[illegible]		[illegible]	[illegible]
80	[illegible]	17,884	-67.1		[illegible]	[illegible]
70	[illegible]	18,695	-64.7		07	[illegible]
60	[illegible]	19,645	-61.5		[illegible]	[illegible]
50	[illegible]	[illegible]	-59.2		[illegible]	4.1
40	[illegible]	22,184	-57.0		[illegible]	6.3
30	[illegible]	24,022	-53.4		[illegible]	[illegible]
25	[illegible]	25,201	-51.6		09	[illegible]
20	[illegible]	[illegible]	-49.0		[illegible]	[illegible]
15	[illegible]	28,557	-46.6		[illegible]	[illegible]
10	[illegible]	31,261	-43.3		[illegible]	9.8
7	[illegible]	33,679	[illegible]		10	7.0
5	[illegible]	35,973	-38.3			

VICTORIA, TX

Standard pressure surface (mb)	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s.
SFC	[illegible]	33	[illegible]	18.2	[illegible]	[illegible]
1000	[illegible]	136	[illegible]	19.9	07	[illegible]
950	[illegible]	584	21.1	16.3	12	[illegible]
900	[illegible]	1,051	18.5	12.9	[illegible]	[illegible]
850	[illegible]	1,540	15.4	8.7	10	[illegible]
800	[illegible]	2,053	13.0	3.1	[illegible]	[illegible]
750	[illegible]	2,593	9.9	-.7	05	[illegible]
700	[illegible]	3,163	7.0	-6.5	06	[illegible]
650	[illegible]	3,769	3.8	-9.7	[illegible]	[illegible]
600	[illegible]	4,415	[illegible]	-13.2	34	[illegible]
550	[illegible]	5,107	[illegible]	-16.9	[illegible]	[illegible]
500	[illegible]	5,852	[illegible]	-22.7	28	[illegible]
450	[illegible]	6,663	[illegible]	-27.8	[illegible]	[illegible]
400	[illegible]	7,550	[illegible]	-33.7	27	[illegible]
350	[illegible]	8,533	[illegible]	-39.9	27	[illegible]
300	[illegible]	9,628	[illegible]	-47.1	28	[illegible]
250	[illegible]	10,878	-43.8		[illegible]	[illegible]
200	[illegible]	12,343	-54.3		[illegible]	[illegible]
175	[illegible]	13,188	[illegible]		[illegible]	[illegible]
150	[illegible]	14,139	-65.4		[illegible]	[illegible]
125	[illegible]	15,235	-70.3		28	[illegible]
100	[illegible]	16,550	-72.3		29	[illegible]
80	[illegible]	17,874	-68.6		[illegible]	[illegible]
70	[illegible]	18,682	-65.1		10	[illegible]
60	[illegible]	19,627	-62.9		[illegible]	[illegible]
50	[illegible]	20,757	[illegible]		[illegible]	[illegible]
40	[illegible]	22,160	[illegible]		[illegible]	[illegible]
30	[illegible]	23,997	-53.3		[illegible]	[illegible]
25	[illegible]	25,176	-51.2		[illegible]	[illegible]
20	[illegible]	26,634	-48.1		09	17.1
15	[illegible]	28,550	-43.8		[illegible]	17.6
10	[illegible]	31,315	-39.1			

WAKE IS., PACIFIC AREA
1014 MB

Standard pressure surface (mb)	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s.
SFC	[illegible]	5	[illegible]	24.2	[illegible]	4.8
1000	[illegible]	131	26.4	[illegible]	[illegible]	[illegible]
950	[illegible]	592	[illegible]	20.2	[illegible]	7.0
900	[illegible]	1,053	19.9	15.8	[illegible]	7.0
850	[illegible]	1,545	17.1	12.6	[illegible]	6.5
800	[illegible]	2,061	14.2	9.4	[illegible]	6.1
750	[illegible]	[illegible]	11.2	5.4	[illegible]	5.8
700	[illegible]	3,177	8.0	1.0	[illegible]	[illegible]
650	[illegible]	3,786	[illegible]	-4.2	[illegible]	[illegible]
600	[illegible]	4,435	.9	-8.5	[illegible]	[illegible]
550	[illegible]	[illegible]	-3.2	-13.5	[illegible]	[illegible]
500	[illegible]	5,877	-7.7	-18.5	[illegible]	[illegible]
450	[illegible]	6,691	-12.4	-23.5	[illegible]	[illegible]
400	[illegible]	7,581	-18.1	-28.5	[illegible]	[illegible]
350	[illegible]	[illegible]	-25.2	-34.8	[illegible]	[illegible]
300	[illegible]	9,666	-33.8	-44.5	[illegible]	[illegible]
250	[illegible]	10,917	-44.1		[illegible]	[illegible]
200	[illegible]	12,374	-56.2		[illegible]	[illegible]
175	[illegible]	13,210	-62.5		[illegible]	[illegible]
150	[illegible]	14,147	-68.9		[illegible]	[illegible]
125	[illegible]	15,225	[illegible]		[illegible]	[illegible]
100	[illegible]	16,527	[illegible]		[illegible]	[illegible]
80	[illegible]	17,837	[illegible]		[illegible]	[illegible]
70	[illegible]	18,631	-68.9		[illegible]	[illegible]
60	[illegible]	19,558	-67.0		[illegible]	12.1
50	[illegible]	[illegible]	-63.3		[illegible]	13.3
40	[illegible]	[illegible]	-60.7		[illegible]	[illegible]
30	[illegible]	23,857	-56.2		[illegible]	15.7
25	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
20	[illegible]	26,448	[illegible]		[illegible]	[illegible]
15	[illegible]	[illegible]	-47.4		[illegible]	[illegible]
10	[illegible]	31,044	-45.1			

WALLOPS ISLAND, VA NASA

Standard pressure surface (mb)	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s.
SFC	29	[illegible]	19.2	16.9	[illegible]	[illegible]
1000	[illegible]	166	19.6	14.9	[illegible]	[illegible]
950	[illegible]	607	[illegible]	[illegible]	[illegible]	[illegible]
900	[illegible]	1,068	15.1	[illegible]	[illegible]	[illegible]
850	[illegible]	1,551	12.8	6.0	[illegible]	[illegible]
800	[illegible]	2,059	11.0	3.4	[illegible]	[illegible]
750	[illegible]	2,597	8.6	.9	[illegible]	[illegible]
700	[illegible]	3,165	5.7	-4.3	[illegible]	[illegible]
650	[illegible]	3,768	2.7	[illegible]	[illegible]	[illegible]
600	[illegible]	4,412	[illegible]	-11.8	[illegible]	[illegible]
550	[illegible]	5,102	[illegible]	[illegible]	[illegible]	[illegible]
500	[illegible]	5,846	[illegible]	[illegible]	[illegible]	[illegible]
450	[illegible]	6,653	[illegible]	[illegible]	[illegible]	[illegible]
400	[illegible]	7,535	[illegible]	[illegible]	[illegible]	[illegible]
350	[illegible]	8,513	-27.2	[illegible]	[illegible]	[illegible]
300	[illegible]	[illegible]	-35.9	-45.8	[illegible]	[illegible]
250	[illegible]	10,842	-45.7		[illegible]	22.5
200	[illegible]	12,294	[illegible]		[illegible]	23.2
175	[illegible]	13,135	[illegible]		[illegible]	21.2
150	[illegible]	14,085	[illegible]		[illegible]	[illegible]
125	[illegible]	15,189	[illegible]		[illegible]	[illegible]
100	[illegible]	16,535	[illegible]		[illegible]	[illegible]
80	[illegible]	17,894	[illegible]		[illegible]	[illegible]
70	26	18,720	[illegible]		[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
50	26	20,832	[illegible]		[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
25	24	25,281	[illegible]		[illegible]	[illegible]
20	24	26,745	-47.9		[illegible]	[illegible]
15	21	28,550	-45.4		[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]			

WASHINGTON DULLES INT'L, VA

Standard pressure surface (mb)	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s.
SFC	30	[illegible]	13.8	[illegible]	[illegible]	[illegible]
1000	29	[illegible]	15.3	[illegible]	[illegible]	[illegible]
950	[illegible]	[illegible]	15.2	[illegible]	[illegible]	[illegible]
900	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
850	[illegible]	1,540	[illegible]	5.5	[illegible]	[illegible]
800	[illegible]	2,045	[illegible]	.3	[illegible]	[illegible]
750	[illegible]	[illegible]	[illegible]	-3.5	[illegible]	[illegible]
700	[illegible]	[illegible]	5.1	-6.5	[illegible]	[illegible]
650	[illegible]	3,748	[illegible]	[illegible]	[illegible]	[illegible]
600	[illegible]	[illegible]	-1.5	[illegible]	[illegible]	[illegible]
550	[illegible]	5,078	-5.3	[illegible]	[illegible]	[illegible]
500	[illegible]	5,820	-10.1	[illegible]	[illegible]	15.7
450	[illegible]	6,625	-15.1	[illegible]	[illegible]	16.9
400	[illegible]	7,505	-21.1	[illegible]	[illegible]	[illegible]
350	[illegible]	[illegible]	-28.2	[illegible]	[illegible]	[illegible]
300	30	9,565	[illegible]	[illegible]	[illegible]	[illegible]
250	30	10,804	-45.7		[illegible]	[illegible]
200	30	[illegible]	-55.5		[illegible]	[illegible]
175	30	13,100	-59.4		[illegible]	[illegible]
150	[illegible]	[illegible]	-62.9		[illegible]	[illegible]
125	[illegible]	[illegible]	-65.6		[illegible]	17.9
100	[illegible]	[illegible]	-65.4		[illegible]	12.1
80	30	17,893	[illegible]		[illegible]	[illegible]
70	30	18,722	[illegible]		[illegible]	[illegible]
60	[illegible]	[illegible]	-58.2		[illegible]	[illegible]
50	29	20,839	[illegible]		[illegible]	[illegible]
40	29	22,250	[illegible]		[illegible]	[illegible]
30	27	24,110	[illegible]		09	[illegible]
25	[illegible]	25,296	[illegible]		[illegible]	[illegible]
20	25	[illegible]	[illegible]		[illegible]	[illegible]
15	[illegible]	[illegible]	-45.8		09	[illegible]
10	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]

RAWINSONDE DATA

Average monthly values

SEPTEMBER 1975

Standard pressure surface mb	WAYCROSS, GA 1011 MB					
	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	44	[illegible]	19.1	05	.5
1000	30	140	20.7	18.7	06	.7
950	30	596	20.7	16.9	16	1.6
900	30	1,054	18.9	13.4	20	2.7
850	30	1,543	16.3	8.5	20	3.6
800	30	2,058	13.8	5.7	20	4.4
750	30	2,599	10.9	1.2	20	4.7
700	30	3,172	7.7	-2.9	20	4.9
650	30	3,780	4.5	-6.5	21	4.6
600	30	4,428	1.0	-11.2	21	4.8
550	30	5,123	-2.9	-17.1	21	5.2
500	30	5,872	-7.1	-23.5	22	5.6
450	30	6,686	-12.3	-28.1	22	5.9
400	30	7,575	-18.2	-32.5	23	6.7
350	30	8,561	-25.5	-37.0	23	7.5
300	30	9,658	-33.9	-45.0	23	8.5
250	28	10,909	-43.7		24	[illegible]
200	28	12,471	-55.1		25	10.1
175	28	[illegible]	[illegible]		26	9.4
150	28	14,159	-66.3		25	6.9
125	27	15,251	-71.7		26	4.9
100	27	[illegible]	[illegible]		27	1.7
80	27	17,901	-67.2		09	2.1
70	27	18,713	-64.1		09	3.9
60	27	19,661	-61.2		08	7.0
50	27	20,796	-59.2		09	10.6
40	24	[illegible]	-56.3		09	12.5
30	22	[illegible]	-52.7		09	[illegible]
25	21	25,227	-51.9		09	13.1
20	20	26,693	-47.7		08	14.2
15	18	28,611	-43.7		09	13.4
10	10	31,371	-39.3			
7						

Standard pressure surface mb	WINNEMUCCA, NV 871 MB					
	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	1,312	9.3	-3.7	10	1.4
1000						
950						
900						
850	30	1,521	16.6	-1.1	06	2.5
800	30	2,037	15.8	-2.7	04	.9
750	30	2,581	11.9	-4.8	29	.8
700	30	3,153	7.4	-6.7	26	2.2
650	30	3,759	3.1	-10.3	25	3.1
600	30	4,402	-1.6	-14.2	24	3.2
550	30	5,088	-6.7	-19.8	27	3.8
500	30	5,825	-11.7	-25.1	28	4.2
450	30	6,624	-17.2	-31.7	28	4.4
400	30	7,497	-23.5	-37.0	28	6.1
350	30	8,462	-31.0	-43.2	27	7.2
300	30	9,534	-39.4	-50.5	28	9.4
250	30	10,757	-48.8		27	12.1
200	30	12,199	-55.4		27	15.4
175	30	13,045	-58.		27	15.1
150	30	14,010	-60.9		27	13.8
125	30	15,135	-63.7		28	10.9
100	30	16,497	-65.4		29	7.0
80	30	17,857	-64.5		31	3.6
70	30	18,677	[illegible]		33	2.6
60	30	19,633	-60.6		36	1.6
50	30	20,775	-58.1		01	1.1
40	30	22,188	-55.7		05	1.1
30	30	24,034	-52.6		08	1.8
25	30	25,216	-51.4		08	2.7
20	26	26,671	-49.1		08	2.7
15	22	28,567	-47.2		09	3.0
10	5	31,265	-44.6			
7						

Standard pressure surface mb	WINSLOW, AZ 854 MB					
	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	1,487	13.1	8.1	17	.5
1000						
950						
900						
850	29	1,533	15.2	6.4	18	.3
800	30	2,048	16.2	3.7	29	1.0
750	30	2,594	13.0	.4	28	1.0
700	30	3,169	8.5	-2.6	20	.7
650	30	3,777	3.5	-5.6	21	1.0
600	30	4,421	-1.3	-9.7	24	1.4
550	30	5,110	-5.6	-16.4	25	2.0
500	30	5,850	-10.6	-23.6	27	3.4
450	30	6,653	-15.7	-30.7	27	5.5
400	30	7,531	-21.8	-36.2	28	7.1
350	30	8,503	[illegible]	-42.7	28	9.4
300	29	9,587	[illegible]	-46.2	28	11.1
250	29	10,825	[illegible]		28	13.8
200	29	12,281	-54.7		28	15.0
175	29	13,127	[illegible]		28	15.3
150	29	14,083	-63.6		28	13.7
125	29	15,190	-67.8		29	11.6
100	28	16,524	-69.5		30	6.0
80	27	17,862	-67.3		34	2.2
70	27	18,675	-64.4		05	1.9
60	26	19,624	-61.5		09	2.3
50	26	20,762	-58.8		06	4.6
40	26	22,168	-57.0		09	7.0
30	26	[illegible]	[illegible]		09	10.3
25	26	25,180	-52.1		07	9.9
20	25	26,630	-49.8		09	10.9
15	21	28,533	-47.1		09	11.1
10	15	31,224	-43.5		10	10.4
7						

Standard pressure surface mb	YAKUTAT, AK 1015 MB					
	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	12	8.8	7.2	10	2.5
1000	30	132	9.6	7.9	12	3.9
950	30	557	7.8	5.9	15	6.2
900	30	1,002	5.5	3.4	17	6.2
850	30	1,468	3.0	.4	17	6.3
800	30	1,957	.6	-1.7	18	6.0
750	30	2,473	-2.1	-5.1	19	6.3
700	30	3,019	-5.0	-10.8	20	7.0
650	30	3,599	-8.2	-14.5	21	8.1
600	30	4,216	-12.0	-20.9	22	9.2
550	30	4,877	-16.1	-26.3	23	10.7
500	30	5,588	-20.6	-31.1	23	11.7
450	30	6,361	-25.5	-34.8	23	12.8
400	30	7,205	-31.5	-39.6	23	13.2
350	30	8,140	-38.1	-43.3	24	13.9
300	29	9,174	-45.7		24	15.0
250	29	10,373	-50.8		25	15.0
200	29	11,823	-51.7		26	13.9
175	29	12,688	-52.1		26	13.6
150	29	13,683	-53.4		26	13.4
125	29	14,856	-53.9		25	12.7
100	29	16,289	-53.8		26	9.3
80	29	17,722	-54.0		25	8.9
70	29	18,580	-54.1		26	7.5
60	29	19,568	-54.5		26	6.9
50	28	20,735	-54.6		26	6.2
40	28	22,164	-54.2		27	5.8
30	26	24,010	-53.5		28	5.8
25	25	25,187	-52.9		28	5.5
20	23	26,538	-51.9		29	6.5
15	18	28,523	-50.0		29	6.7
10	14	31,212	-46.7		27	8.5
7	6	33,709	-43.4			

Standard pressure surface mb	* YAP, CAROLINE IS. 1008 MB					
	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	14	27.6	24.0	12	1.6
1000	30	80	26.3	22.8	12	2.0
950	30	538	23.2	20.5	11	2.9
900	30	1,010	20.4	16.7	12	2.9
850	30	1,502	17.6	12.7	12	3.1
800	30	2,019	15.1	10.1	11	3.5
750	30	2,565	12.3	7.1	10	4.1
700	30	3,141	9.2	4.2	10	4.3
650	30	3,753	6.0	1.1	10	4.2
600	30	4,405	2.3	-2.4	10	4.6
550	30	5,105	-1.3	-6.8	10	4.7
500	30	5,859	-5.4	-12.2	09	4.2
450	30	6,680	-10.1	-17.5	09	3.6
400	30	7,579	-15.6	-25.1	03	3.4
350	30	8,577	-22.4	-33.3	09	4.2
300	29	9,688	-30.7	-42.7	08	4.4
250	29	10,955	-41.0		06	4.9
200	29	12,432	-53.6		05	5.8
175	29	13,276	-60.8		05	6.4
150	29	14,217	-68.8		05	7.3
125	29	15,289	-75.6		07	6.1
100	29	16,564	-76.4		08	9.2
80	29	17,865	-71.9		08	10.0
70	29	18,658	-69.0		08	9.7
60	29	19,588	-65.7		09	7.2
50	29	20,705	-62.7		08	5.4
40	28	22,091	-59.2		09	5.2
30	25	23,910	-55.0		09	5.2
25	24	25,081	-52.5		10	5.8
20	22	26,532	-49.3		09	5.6
15	18	28,425	-45.7		10	11.5
10	8	31,132	-42.7			
7						

Standard pressure surface mb	YUCCA FLAT, NV 882 MB					
	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	[illegible]	12.8	-3.6	29	.3
1000						
950						
900						
850	30	1,517	20.5	1.2	35	1.1
800	30	2,037	17.4	-1.0	16	1.2
750	30	2,585	13.4	-3.6	18	2.4
700	30	3,160	8.8	-6.6	18	2.8
650	30	3,769	4.0	-9.1	16	2.7
600	30	4,414	-.8	-13.2	15	2.9
550	30	5,102	-5.8	-19.0	18	2.4
500	30	5,842	-10.7	-25.3	24	2.4
450	30	6,644	-16.0	-32.0	26	3.4
400	30	[illegible]	-22.3	[illegible]	26	[illegible]
350	30	8,490	-29.7	-44.2	27	7.1
300	30	9,568	-37.6	-49.8	27	10.3
250	30	10,803	-46.2		27	12.8
200	30	12,260	-54.0		27	14.4
175	30	13,110	-57.6		27	15.4
150	30	14,073	-62.0		27	13.4
125	30	15,191	-65.8		27	10.0
100	30	16,537	-67.8		29	8.5
80	28	17,883	-66.0		32	[illegible]
70	28	18,699	-63.3		03	1.3
60	28	19,653	[illegible]		05	1.3
50	28	20,794	-58.1		08	2.8
40	28	22,207	-55.9		08	5.1
30	26	[illegible]	-52.8		09	6.6
25	26	25,232	-51.1		09	7.3
20	26	26,691	-49.0		09	7.8
15	19	28,569	-47.2		09	6.9

SOLAR RADIATION INTENSITIES

Tabulated in langleys per minute on a surface normal to the direction of the sun.

ALBUQUERQUE, NEW MEXICO

Date	Sun's zenith distance								
	A.M.				*	P.M.			
	78.7°	75.7°	70.7°	60.0°		60.0°	70.7°	75.7°	78.7°
	Air mass								
	4.19	3.35	2.51	1.67	*	1.67	2.51	3.35	4.19
1-----	.77	.78	.88	1.09	(1.25)	1.07	.85	.68	---
2-----	----	----	----	(.90)	(1.18)	.93	.74	----	--
8-----	----	----	----	----	----	(1.03)	----	.81	----
9-----	----	----	----	.98	1.19	----	----	----	----
10 ---	----	----	----	1.07	----	----	----	----	.69
11----	----	----	----	----	1.36	----	----	----	----
12----	----	----	1.08	----	1.37	1.18	----	----	- --
14----	.77	.84	----	----	----	----	.91	----	.72
15----	.78	.85	----	.91	1.31	1.21	1.07	.96	.85
16----	.82	.92	.97	1.21	1.38	1.17	1.01	.92	.81
17----	.82	.93	1.01	1.16	1.32	1.18	1.01	----	----
18----	.84	.97	1.05	1.19	(1.32)	(1.18)	----	----	----
19----	.86	.95	1.05	1.19	----	1.14	-- -	----	----
20----	.82	.89	1.04	1.16	1.33	1.13	----	---	----
21----	----	----	(1.00)	----	----	(1.10)	.97	.81	.73
22----	.77	.86	1.02	1.19	1.34	1.15	.95	.81	.74
23----	.87	.98	1.09	1.24	1.36	1.19	.99	.89	.80
24----	.80	.91	1.03	1.21	1.31	1.17	1.03	.90	.82
25----	.86	.94	1.07	1.20	1.38	1.21	1.04	.90	(.77)
26----	.88	.97	1.09	1.23	1.37	----	.95	----	.68
27----	.86	.96	1.06	1.21	1.36	1.19	1.05	.92	.81
28----	.84	.96	1.07	1.23	1.35	1.21	1.05	.91	.83
29----	.90	1.00	1.13	1.27	1.37	1.20	1.01	(.86)	----
30----	(.86)	.91	1.07	(1.20)	1.27	1.15	(.88)	(.83)	(.73)
Averages	.83	.92	1.04	1.16	1.34	1.16	.98	.86	.77

MADISON, WISCONSIN

Date	Air mass								
	4.69	3.75	2.81	1.88	*	1.88	2.81	3.75	4.69
3-----	----	----	----	----	S 1.29	----	----	----	----
6-----	S .78	S .88	M 1.01	M 1.20	----	----	----	----	----
8-----	M .81	S .89	S 1.02	S 1.15	----	----	S .95	S .83	S .58
9-----	M .81	S .90	S .97	S 1.12	----	----	M .80	M .66	M .54
12----	S .83	S .94	S 1.04	S 1.18	----	S(1.10)	M(.90)	----	----
13----	S .81	S .91	S 1.03	S 1.17	----	----	----	----	S .72
14----	M .75	M .84	S .98	S 1.13	S 1.27	----	----	----	----
19----	----	M .86	----	----	----	----	----	----	----
22----	----	M .64	M .76	M .91	I 1.05	----	M .86	S .79	S .67
24----	----	----	S 1.04	S 1.18	----	----	I .73	----	I .51
26----	S .82	S .95	S 1.06	S 1.18	S 1.23	S 1.17	S 1.04	S .90	S .78
27----	S .78	S .88	S 1.01	S 1.15	S 1.26	S 1.17	S .96	S .82	S .72
28----	M .72	S .87	S 1.00	S 1.11	S 1.17	----	----	----	----
Averages	.79	.85	.99	1.13	1.21	1.17	.89	.80	.62

OMAHA, NEBRASKA

Air mass

NO DATA RECEIVED

BLUE HILL, MASSACHUSETTS

Date	Sun's zenith distance								
	A.M.				*	P.M.			
	78.7°	75.7°	70.7°	60.0°		60.0°	70.7°	75.7°	78.7°
	Air mass								
	4.89	3.92	2.94	1.96	*	1.96	2.94	3.92	4.89
3-----	.56	.65	.72	.81	----	.76	.71	[illegible]	[illegible]
10----	.63	.70	.79	.80	[illegible]	.82	.72	[illegible]	[illegible]
14----	.64	.71	.80	.89	----	.85	.70	[illegible]	[illegible]
29----	.63	.68	.78	[illegible]	[illegible]	.84	[illegible]	.81	[illegible]
Averages	.62	.69	.77	[illegible]	.98	[illegible]	[illegible]	[illegible]	[illegible]

MAUNA LOA OBSERVATORY, HAWAII

Date	Air mass								
	3.36	2.69	2.01	1.34	*	1.34	2.01	2.69	3.36
1-----	1.19	1.26	1.36	1.48	----	----	----	----	----
2-----	1.17	1.24	1.33	1.45	----	----	----	----	[illegible]
3-----	1.17	1.24	1.33	1.46	1.60	1.45	1.34	1.25	----
4-----	1.19	1.26	1.36	1.48	1.63	1.48	1.37	1.28	1.20
5-----	1.21	1.28	1.38	1.49	1.63	----	----	1.33	1.21
6-----	1.21	1.29	1.38	1.50	1.63	1.46	[illegible]	1.27	----
7-----	1.19	1.27	1.36	1.47	1.57	----	---	----	---
8-----	1.21	1.29	1.38	1.50	1.60	1.44	1.34	1.24	1.17
9-----	1.21	1.29	1.39	1.50	----	----	1.33	1.24	1.16
10----	1.21	1.29	1.39	1.50	1.60	----	1.33	----	----
11----	----	----	----	1.50	----	----	----	---	----
12----	----	----	----	----	1.62	----	----	----	----
13----	1.20	1.29	1.37	1.48	1.58	1.50	1.30	1.21	1.12
14----	1.19	1.28	1.37	1.50	1.63	1.50	1.39	1.30	1.22
15----	1.22	1.31	1.40	1.52	1.65	1.50	1.39	1.30	1.22
16----	1.21	1.30	1.38	1.51	1.64	1.48	1.37	1.28	1.21
17----	1.19	1.28	1.38	1.50	1.61	----	----	----	----
18----	1.15	1.24	1.34	1.46	1.61	1.46	1.33	1.25	1.17
19----	1.16	1.25	1.34	1.47	1.60	1.43	1.32	1.22	1.15
20----	1.19	1.27	1.37	1.49	----	----	----	- -	----
21----	1.19	1.27	1.37	1.49	----	----	----	----	----
22----	1.13	1.22	1.32	1.44	1.59	1.44	1.34	1.25	1.16
23----	----	----	1.36	1.49	1.63	1.44	1.34	1.24	1.17
26----	----	----	----	1.48	1.60	----	----	----	----
27----	1.22	1.30	1.39	1.50	----	----	----	----	----
28----	1.14	1.27	1.34	1.47	----	----	----	----	----
29----	1.19	1.27	1.37	1.49	1.61	----	----	---	----
30----	1.21	1.29	1.40	1.52	1.65	----	----	----	----
Averages	1.19	1.27	1.37	1.49	1.61	1.46	1.34	1.26	1.17

TUCSON, ARIZONA

Date	Air mass								
	4.64	3.71	2.78	1.86	*	1.86	2.78	3.71	4.64
1-----	----	----	----	.89	1.15	----	----	----	----
2-----	----	----	----	----	1.15	.97	.86	.68	.56
3-----	.56	.66	.79	.99	1.24	----	----	---	----
4-----	.73	.62	.73	.84	1.18	----	.82	----	----
5-----	----	----	----	----	----	----	.79	----	.63
7-----	----	----	----	----	----	1.02	----	----	----
8-----	.66	.76	.90	1.08	----	----	----	----	----
9-----	.73	.82	.96	1.13	1.35	----	.93	[illegible]	.68
10----	.71	.83	.96	1.17	1.33	1.13	1.04	.94	[illegible]
11----	.82	.92	1.03	1.17	1.35	1.21	1.07	.97	.88
12----	.81	.91	1.02	1.20	----	----	.94	.80	----
13----	.79	.90	1.00	1.18	----	----	----	----	----
14----	.85	.91	1.06	1.22	1.38	1.14	.97	----	.70
15----	----	----	.81	----	1.31	1.00	.77	--	--
16----	.73	.82	.97	1.14	1.33	1.11	.96	.81	.72
17----	.68	.79	.93	1.09	1.30	1.07	.84	.68	----
18----	.74	.84	.95	1.10	1.29	1.12	.94	.81	.70
19----	.78	.89	1.00	1.16	1.31	1.19	1.02	.92	----
20----	.83	.94	1.05	1.22	1.38	1.23	1.09	.97	[illegible]
21----	.78	.88	1.00	1.18	1.43	1.25	1.08	.95	[illegible]
22----	.83	.92	1.03	1.20	1.36	1.20	1.03	.92	[illegible]
23----	.94	1.04	1.14	1.31	1.45	1.31	1.14	1.01	[illegible]
24----	.94	1.03	1.15	1.30	1.45	1.27	1.13	1.00	[illegible]
25----	.90	.98	1.11	1.27	1.43	1.25	1.11	.97	[illegible]
26----	.83	.94	1.04	1.21	1.34	1.12	.97	----	[illegible]
27----	.76	.87	1.00	1.19	1.38	1.17	.98	.85	[illegible]
28----	.81	.92	1.04	1.21	1.36	1.21	1.01	.81	[illegible]
29----	----	----	----	----	1.18	----	----	----	---
Averages	.77	.87	.99	1.17	1.32	1.18	.97	.88	[illegible]

SOLAR RADIATION TOTALS

Daily totals and monthly averages of solar radiation (direct and diffuse) received on a horizontal surface, tabulated in langleys.

SEPTEMBER 1975

Station	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Avg
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	411	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	514	[illegible]	[illegible]		[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	114	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	534	[illegible]		[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	483	[illegible]	[illegible]		[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	474	[illegible]	[illegible]	[illegible]	477	[illegible]	[illegible]	[illegible]	[illegible]	440		[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	449	445		[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	[illegible]	[illegible]	[illegible]	[illegible]	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]*	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]*		[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	486	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	437	[illegible]		[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]

NET RADIATION

Net radiation in langleys per day [illegible]

[illegible]

Date.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Avg.
Langleys. . .	78	158	[illegible]	143	[illegible]	-12	29	22	66	52	-[illegible]	[illegible]	[illegible]	111	81	16	[illegible]	-12	9	2	31	16	42	43	[illegible]	71	[illegible]	31	1	4		[illegible]

SOLAR ULTRA-VIOLET RADIATION DATA

Daily totals and monthly average [illegible]

Date. . .	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Avg.
Langleys. . .																																

NO DATA RECEIVED

TOTAL OZONE DATA

These provisional ozone data are obtained from measurements made with a Dobson ozone spectrophotometer, and are applicable approximately to local apparent noon. The data are presented in the form [illegible] defined in the August 1962 WMO circular entitled "PUBLICATION OF DATA FOR METEOROLOGICAL RESEARCH, WORLD OZONE DATA".

Units: Milli-atmo-cms.

Station	Day of month																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Monthly

NO DATA RECEIVED

REFERENCE NOTES

OBSERVED EXTREMES OF TEMPERATURE AND PRECIPITATION -- BY STATES: Dates in the table apply to the period 24 hours prior to time of observation. In some cases the actual occurrence is on the calendar date preceding that shown. (See individual Climatological Data for times of observations).

+	And also on an earlier date or dates.
D	Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch of water equivalent to every 10 inches of snowfall.

CLIMATOLOGICAL DATA - METRIC UNITS: Data from airport unless otherwise specified.

Precipitation data in column headed "Greatest in 24 hours" are computed on a 24-hour basis without regard to calendar day - data may include precipitation with a measurable amount from the last day of the previous month or the first day of the following month.

Wind directions under resultant direction are in tens of degrees.

Value entered in column "Fastest Mile" is the highest observed 1-minute wind speed when the direction is in tens of degrees. These stations are not equipped with a recording anemometer from which "Fastest Mile data can be evaluated.

B	Number of days maximum 21.1°C. or above for Alaskan Stations.
Y	Peak Gust.
+	And also on an earlier date or dates.
U	Indicates Urban site.
R	Indicates Rural site.
Ø	Station pressures apply to elevations shown in the "Elevations" table of the annual issue of this publication.

Conversion formulae to English Units are as follows:

1 foot = 0.3048 meters
°F. = $\frac{9}{5}$ x C + 32
1 inch = 25.4 millimeters
1 mile per hour = 0.447 meters per second

HEATING DEGREE DAYS: Data from airport unless otherwise specified.

U	Indicates Urban site.
R	Indicates Rural site.

COOLING DEGREE DAYS: Data from airport unless otherwise specified.

U	Indicates Urban site.
R	Indicates Rural site.

STORM SUMMARY:

°	Includes crop damage.
C	Crop damage.
*	No occurrence of storms or unusual weather phenomena reported.
@	Includes heavy sleet storm.
#	Freezing drizzle and freezing rain, commonly known as glaze.
Ø	For breakdown of "All Others," and for detailed listing of other storms, see the Environmental Data Service, NOAA, monthly publication STORM DATA.
‡	No Storm Data Report received for this State.
<>	Report Incomplete.
†	Storm damages are placed in categories varying from 1 to 9 as follows:

1	Less than $50
2	$50 to $500
3	$500 to $5,000
4	$5,000 to $50,000
5	$50,000 to $500,000
6	$500,000 to $5 Million
7	$5 Million to $50 Million
8	$50 Million to $500 Million
9	$500 Million to $5 Billion.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS:

1/	Flooding continued at the end of the month.
NA	Not available.

FLOOD STAGE DATA:

#	Highest Stage Observed
1/	Continued at end of month
___	Highest Stage of Record
E	Estimated
P	Provisional (Flood Stage)
U	Unknown

RAWINSONDE DATA (Average Monthly Values):

All observations scheduled at 1200, G.C.T. Pressures shown under station names are the average monthly station pressures for the month of record, corrected to the height of the floors of the instrument shelters used for rawinsonde purposes. "Number of observations" refers to those of dynamic height only. Although the number of temperature observations at any given pressure surface is usually the same as for height, it is possible for temperature to be missing for one or more pressure surfaces of some observations. Dew Point averages are limited to those observations with temperatures warmer than -40°C. Observations of wind speed and direction are sometimes lost due to limiting angles, i.e., elevation angles less than 6° above the horizon, or any obstruction above the horizon. The temperature and wind values are based on 15 or more observations at the surface or 5 observations at a standard pressure level for temperature and 10 for wind. Dew Point data are not published for standard pressure surfaces for which less than 5 observations are available. Dew Point data are computed and expressed on the basis of vapor pressure over water. Unless otherwise indicated, they are obtained from carbon hygristors. These average values for standard pressure surfaces were obtained by rawinsondes; dynamic height (geopotential) in units of .98 dynamic meter, temperature and dew point in degrees Celsius, and resultant winds in tens of degrees and meters per second.

*	Rawinsondes at this station were equipped with hypsometers to permit more accurate evaluations of pressure, and consequently height, at pressures lower than 50 mb. These rawinsondes were carried aloft by special high altitude balloons, in an effort to consistently reach higher altitudes.
+	Observations for these stations are scheduled at 0000 G.C.T.
†	Dew Point temperatures are based on a minimum of 5 observations. Therefore, due to the lesser number of Dew Point observations at the higher levels comparison with dry-bulb temperatures should be made with care. Dew Point temperatures replaced Relative Humidity January 1967.

REFERENCE NOTES

SOLAR RADIATION INTENSITIES: Langley is the unit used to denote one gram calorie per square centimeter. An explanation of the formula used in computing the air mass values for each station appears in the February 1957 issue, Vol. 8, No. 2, page 63, of this publication.

()	Clouds Present	DM	Moderate Dust	HM	Moderate Haze	KS	Slight Smoke
*	Values corresponding to true solar noon	DS	Slight Dust	HS	Slight Haze	M	Moderate Haze-indeterminable
BD	Blowing Dust	F	Fog	I	Intense Haze-indeterminable	N	Sand
BN	Blowing Sand	GF	Ground Fog	K	Smoke	S	Slight Haze-indeterminable
D	Dust	H	Haze	KI	Intense Smoke		
DI	Intense Dust	HI	Intense Haze	KM	Moderate Smoke		

SOLAR RADIATION TOTALS: Langley is the unit used to denote one gram calorie per square centimeter.

* Values with an asterisk are interpolated.

Data are only for those stations equipped with Eppley Model II sensors.

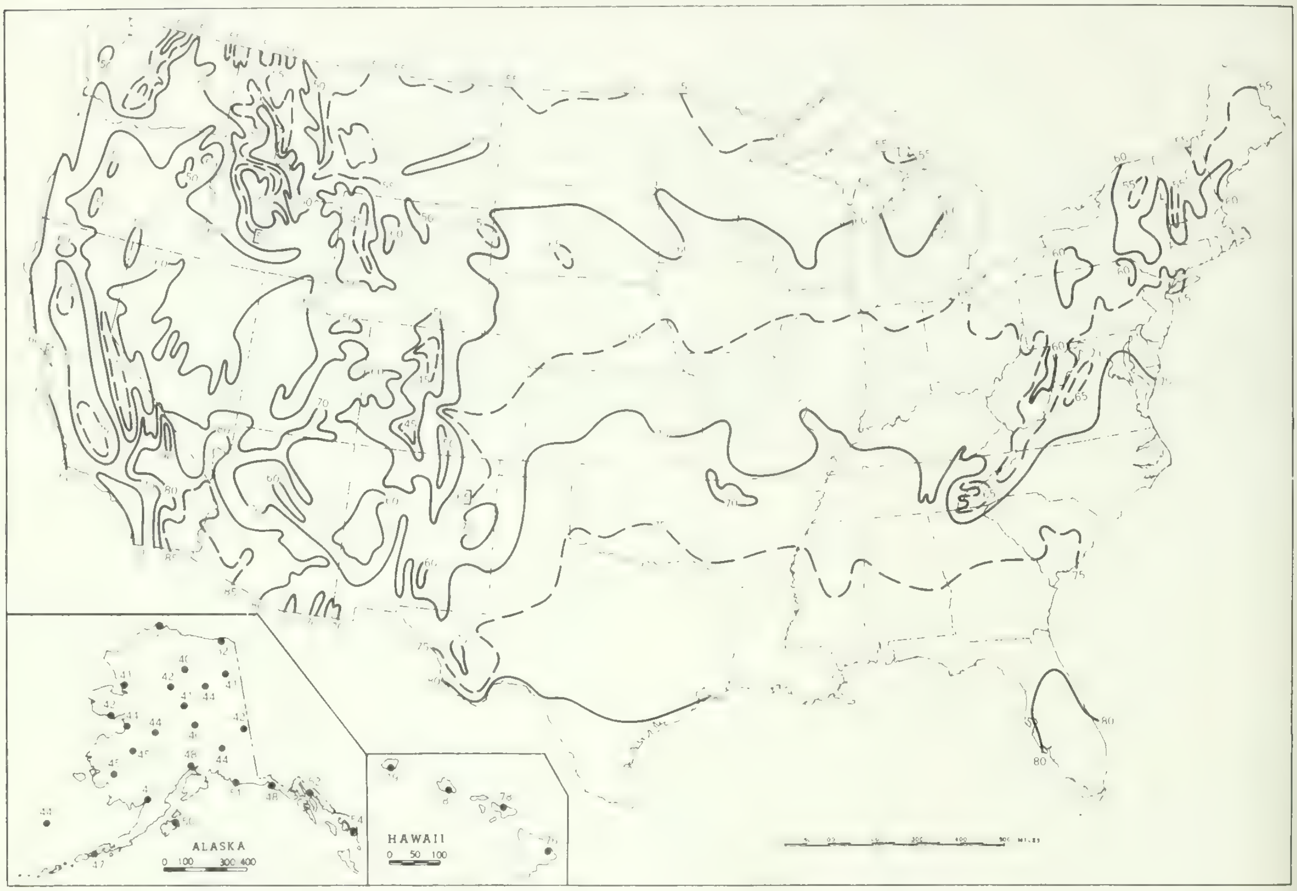
NET RADIATION: The measurement is made with a CSIRO FUNK net exchange radiometer over a plot of sod. The value represents the total incoming minus the total outgoing radiation of all wave lengths.

These data are of an experimental nature and are published as received from the Palmer Exp. Station. The instrument with which they were measured has not been checked by the NOAA, National Weather Service.

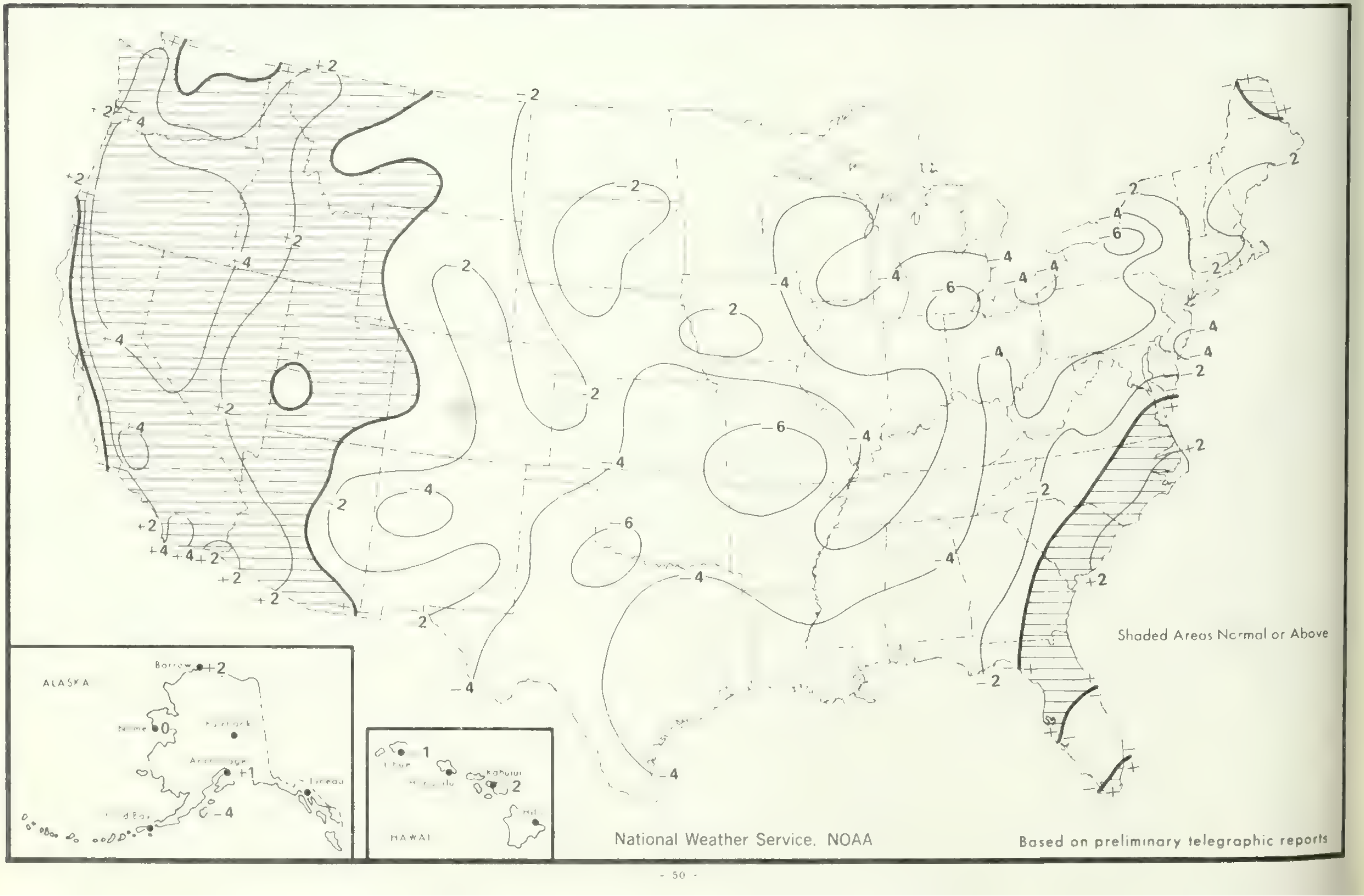
SOLAR ULTRA-VIOLET RADIATION DATA: These data are from an U-V Eppley total ultra violet sensor and Speedomax H (Leeds Northrup) Recorder. This instrument has not been checked by the NOAA, National Weather Service.

TOTAL OZONE DATA: The spectrophotometer measures the total amount of ozone in the atmosphere, i.e., the amount contained in a vertical column of air extending from ground level to the top of the atmosphere in the vicinity of the station. The amount of ozone in this column (coded $\Omega\Omega\Omega$) is expressed in terms of a thickness of a layer it would occupy at standard temperature and pressure, e.g., 350 milli-atmo-cm ozone implies an ozone layer 0.350 centimeter thick. The code λs designates the type of measurement made.

Chart 1. A. Normal Daily Average Temperature (°F. 1941-70), September.


ALASKA
0 100 300 400
HAWAII
0 50 100
MILES

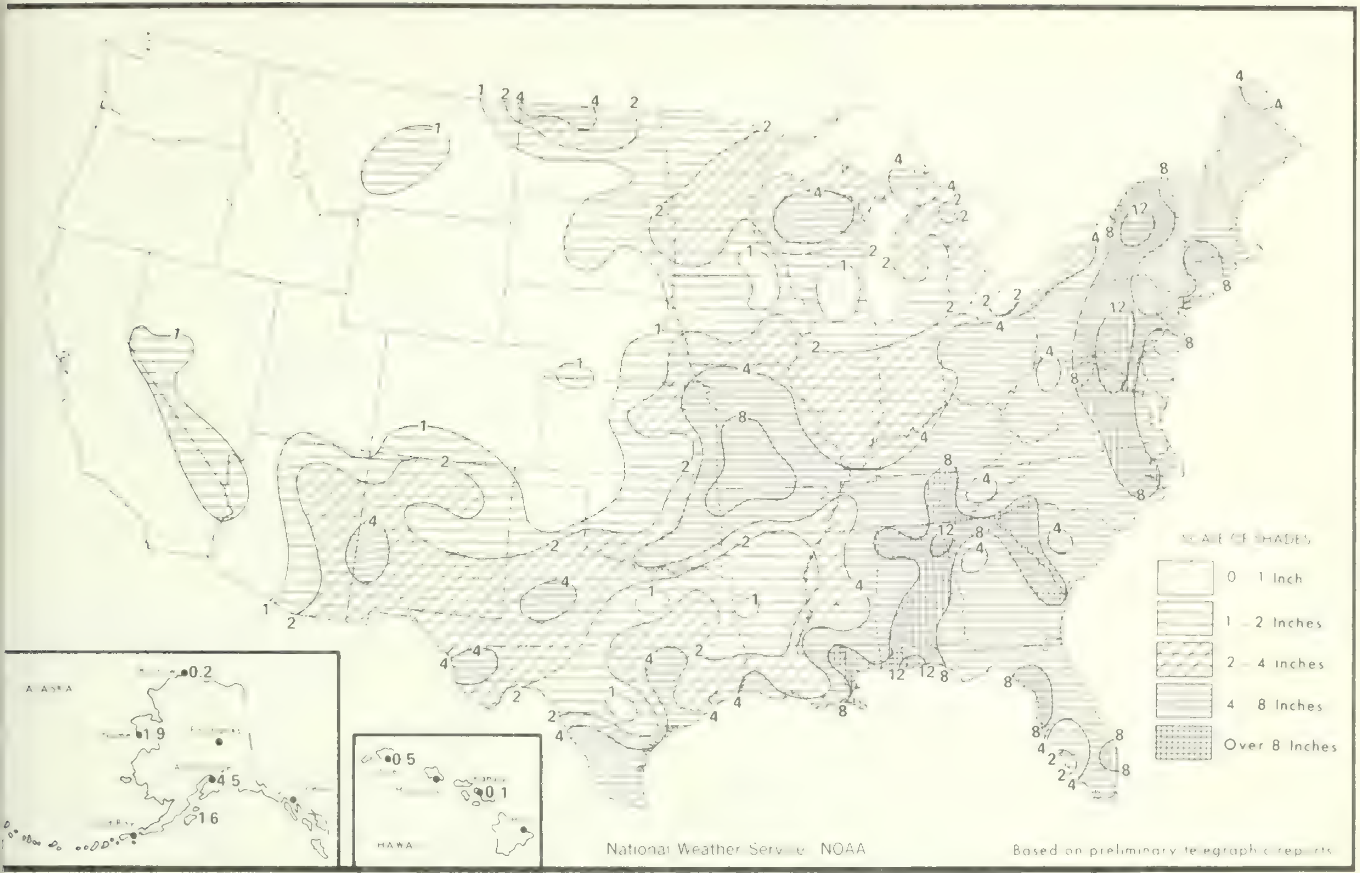
B. Temperature Departure from 30 - Year Mean (°F 1941-70), September 1975


ALASKA
Barrow
Nome
Anchorage
Juneau
HAWAII
Lihue
Honolulu
Kahului
Hilo
Shaded Areas Normal or Above

National Weather Service, NOAA

Based on preliminary telegraphic reports

Chart II. A. Total Precipitation (Inches), September 1975


Scale of shades
0 – 1 Inch
1 – 2 Inches
2 – 4 Inches
4 – 8 Inches
Over 8 Inches
Alaska
Hawaii

National Weather Service, NOAA

Based on preliminary telegraphic reports

B. Percentage of Normal Precipitation, September 1975

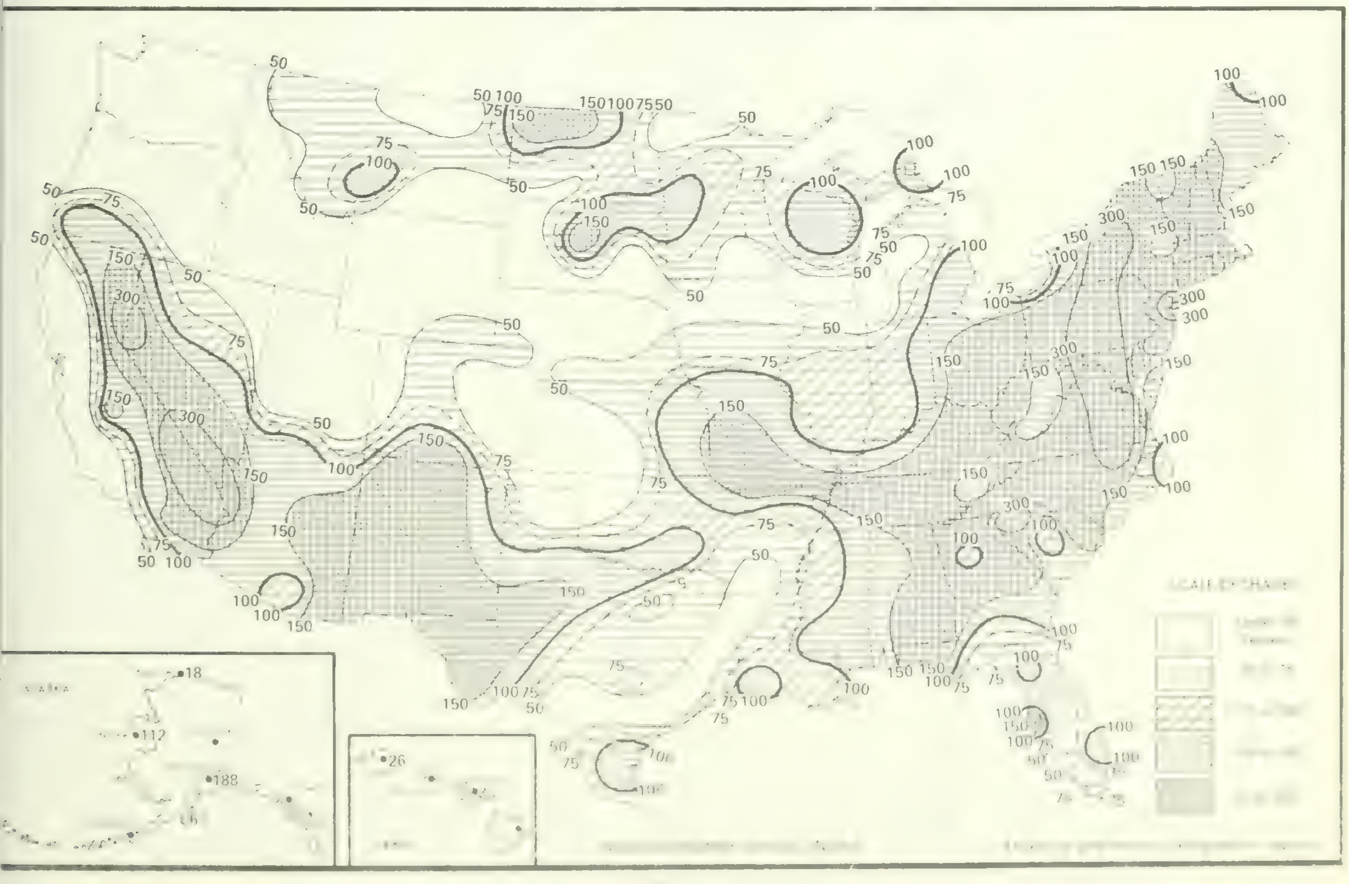
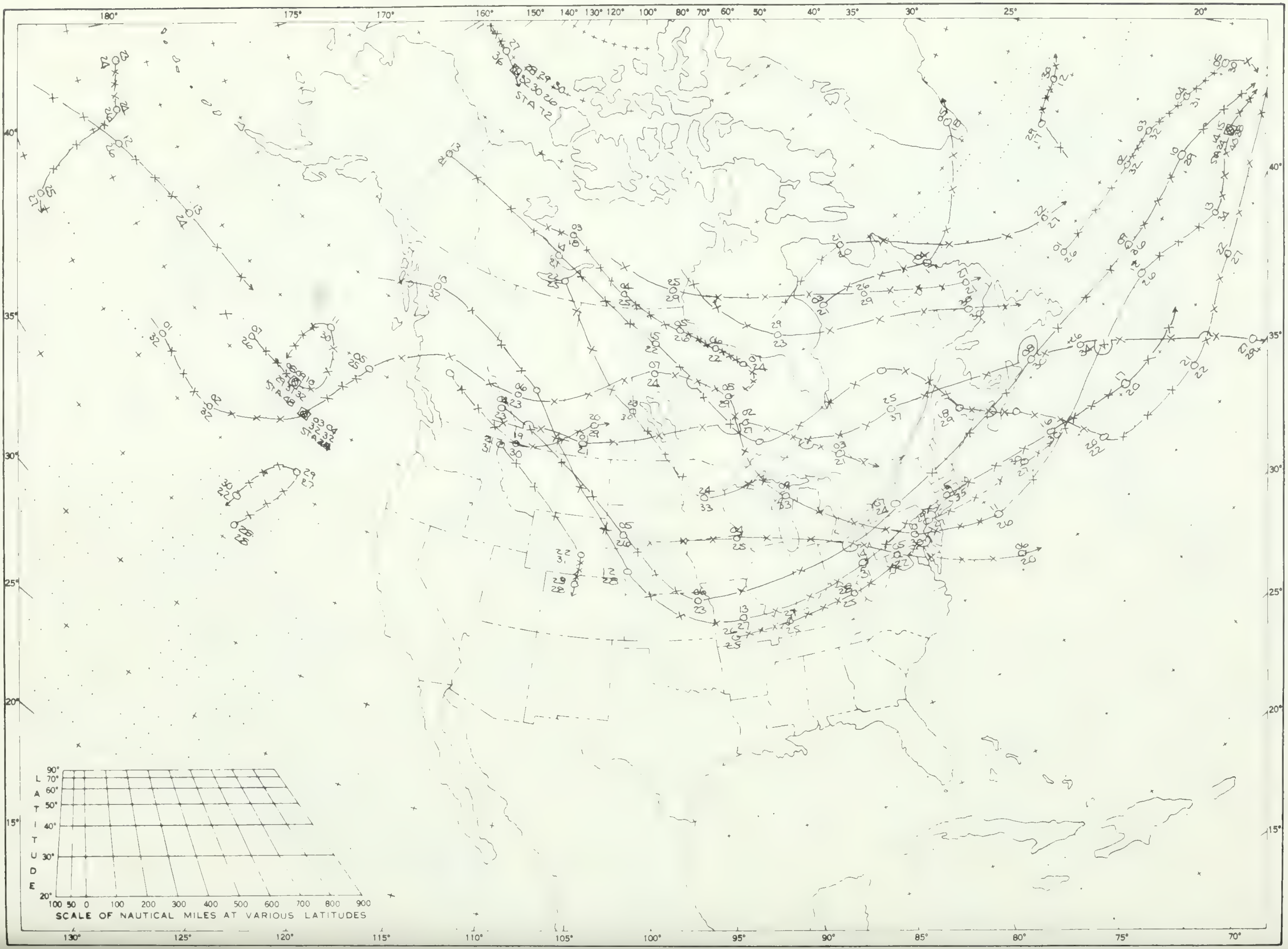
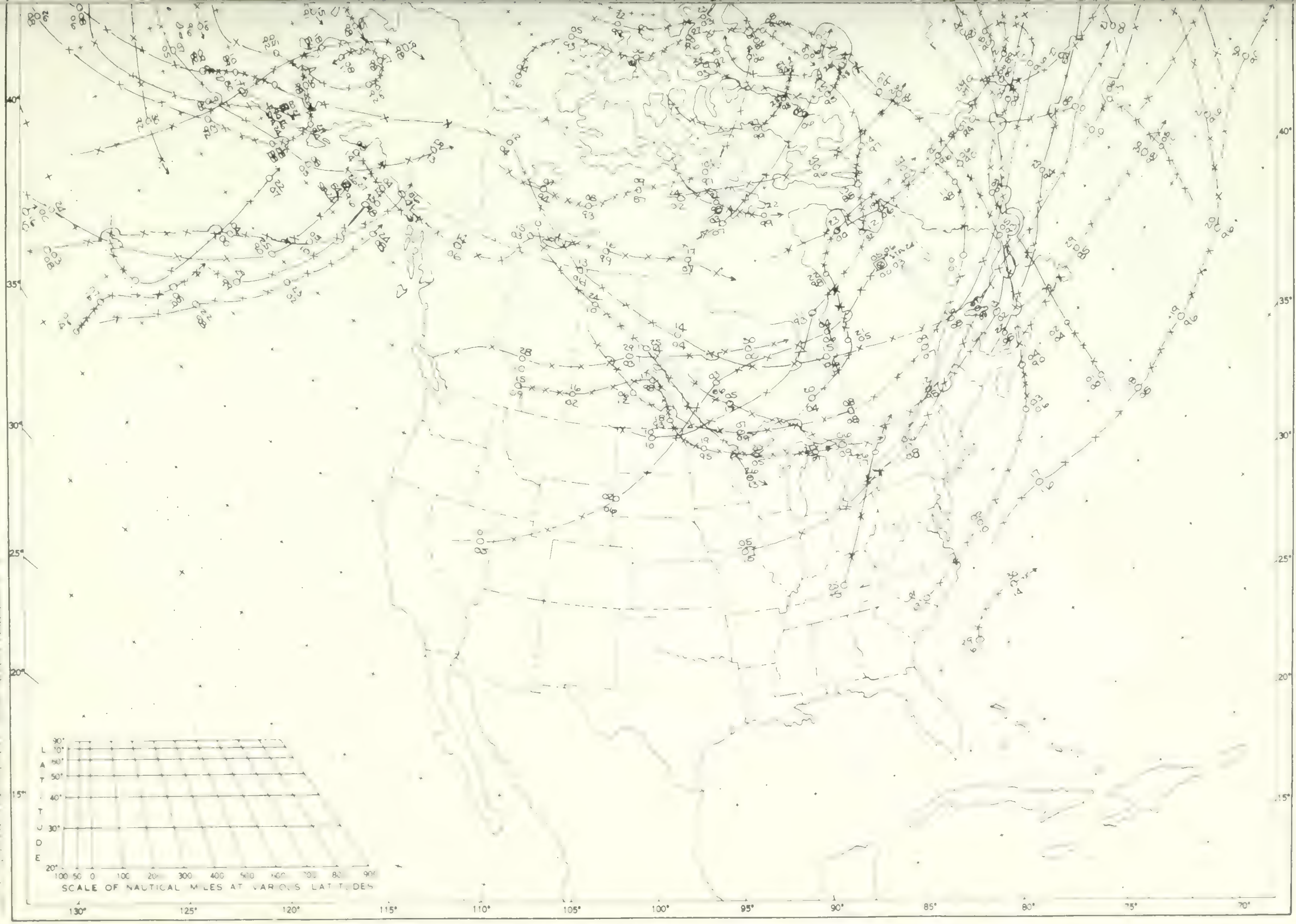


Chart III. Tracks of Centers of Anticyclones at Sea Level, September 1975


180°
175°
170°
160°
150°
140°
130°
120°
100°
80°
70°
60°
50°
40°
35°
30°
25°
20°
STA 72
L A T I T U D E
90°
70°
60°
50°
40°
30°
20°
100 50 0 100 200 300 400 500 600 700 800 900
SCALE OF NAUTICAL MILES AT VARIOUS LATITUDES
130°
125°
120°
115°
110°
105°
100°
95°
90°
85°
80°
75°
70°

Circle indicates position of center at 7:00 a.m. E.S.T. Figure above circle indicates date, figure below, pressure to nearest milli


40°
35°
30°
25°
20°
15°
130°
125°
120°
115°
110°
105°
100°
95°
90°
85°
80°
75°
70°
LATITUDE
90°
70°
60°
50°
40°
30°
20°
100 50 0 100 200 300 400 500 600 700 800 900
SCALE OF NAUTICAL MILES AT VARIOUS LATITUDES

Circle indicates position of center at 7:00 a.m. E.S.T. Figure above circle indicates date, figure below, pressure to nearest millibar X's indicate intervening 6 hourly positions. Squares indicate position of stationary center for period shown. Dashed line in track indicates reformation at new position. Only those centers which could be identified for 24 hours or more are included.

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1776-1976

OCTOBER 1975 VOLUME 26 NUMBER 10

CLIMATOLOGICAL DATA

NATIONAL SUMMARY

DEPARTMENT OF COMMERCE
UNITED STATES OF AMERICA

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Thomas D. Potter
DIRECTOR
NATIONAL CLIMATIC CENTER

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NOTE: Late reports and corrections will be carried in the June and December issues of this publication. An explanatory page "Description of Charts' will be carried in the January and July issues.

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CLIMATOLOGICAL DATA

NATIONAL SUMMARY

OCTOBER 1975

GENERAL SUMMARY OF WEATHER CONDITIONS

Dr. Richard E. Felch, Climatologist

r precipitation was generally extreme--either lly dry or unusally wet. Rainfall was less 0% of normal from the Great Lakes southwest- cross the western Corn Belt, the central and rn Great Plains, and the desert Southwest.

lly wet conditions were experienced in the est, from the Ohio Valley to the Gulf Coast, er much of New England. Over 20 inches of ell along the Washington coast while parts of uthern Great Plains received less than 0.1 Rainfall in the Atlantic Coast States and n Gulf Coast area was generally near normal.

atures averaged near normal during October ost of the country. Areas with average atures 2° or more above normal were limited to eat Plains States and the Atlantic Coastal , including central Florida. Colder than nor- ckets of air were limited to the Mountain .

r began with cold air and clear skies west of ssissippi and general rains in the East. By skies had cleared to the Atlantic Coast; for xt 4 days the only significant precipitation Nation was confined to parts of Alabama, a, and Florida. However, the cool dry air, ed with clear skies, produced record low atures across a broad area. On the 3d Little AR, sank to a record 41° and Pittsburgh, PA, ew low of 31°. San Antonio, TX, reported 44° 5th. Freezing temperatures, however, had impact on northern grain areas, where most already were mature.

infall activity in the Southeast began to northward on the 7th, covering most areas f the Mississippi by the 9th. Also the first major winter storm of the season swept into the intermountain region on the 7th.

Winds gusted to 65 m.p.h. in parts of California, Arizona, and Utah. By the 9th snow had moved into North Dakota, where Minot measured 2 inches of predawn snow.

Warm air and sunshine began pushing the thermometer skyward in the Nation's midsection from the 10th-12th. Temperatures reached into the 90's as far north as Kansas, Nebraska, Iowa, and Tennessee. Sioux City, IA reached 92° on the 12th--breaking the record set in 1899.

A cold front out of the Rockies and a tropical depression from the Gulf controlled the weather picture from the 14th to the 19th. Drifting eastward, the front dropped temperatures into the freezing range across the northern and central Plains and middle Mississippi Valley. Ahead of the front, though, record-breaking highs ranged from the Gulf Coast to the Great Lakes and middle Atlantic States. Responsible for much of the rain in the eastern third of the Nation, the slow moving Gulf depression spread heavy amounts from the lower Mississippi Valley along the Appalachians into the New England States over a 4 to 5 day period.

Heavy rains in the Northeast caused landslides and washouts that closed roads in New Hampshire and Vermont before the storm moved offshore on the 21st.

A major winter storm blanketed the northern Rockies with snow on the 22d-24th. Lander, WY, reported 9 inches on the ground and higher elevations measured even greater depths. In contrast, the eastern third of the Nation basked under summer-like temperatures that soared to record levels at many locations. The final 5 days of October were generally warm and dry, especially in the Plains region.

OBSERVED EXTREMES OF TEMPERATURE AND PRECIPITATION -- BY STATES

OCTOBER 1975

STATE	Temperature						Precipitation			
	Monthly extremes						Monthly extremes			
	Station	Highest	Date	Station	Lowest	Date	Station	Greatest	Station	Least
		°F			°F			In.		In.
Alabama	2 Stations	92	13	Haleyville 3 NE	29	20+	Moulton 2	13.42	Florence	3.38
Alaska	Sitka Magnetic Obsy.	64	2	Clear Water	-48	31	Mac Leod Harbor	25.97	2 Stations	T
Arizona	Gila Bend	107	5	Sunset Crater Nat. Mon.	4	25	San Simon 9 ESE	1.13	32 Stations	.00
Arkansas	2 Stations	95	12+	3 Stations	26	26+	El Dorado FAA AP	3.15	Antoine	.00
California	Death Valley	106	1	White Mountain 2	0	23	Klamata	15.48	17 Stations	.00
Colorado	4 Stations	95	12+	Antero Reservoir	-14	25	Mesa Lakes Resort	2.21	10 Stations	.00
Connecticut	Hartford WSO AP	85	15	2 Stations	23	31	West Thompson Dam	6.60	Falls Village	3.55
Delaware	4 Stations	87	15+	Newark University Farm	26	31	Dover	4.04	Lewes 1 SW	2.75
Florida	2 Stations	94	9+	Fountain 3 SSE	35	20	Niceville	13.52	Perry	.94
Georgia	Irwinton 4 WNW	93	13	2 Stations	27	31	Clayton 1 SSW	8.80	Fleming	.70
Hawaii	2 Stations	90	6+	Mauna Loa Slope Obs.	31	19	Mount Waialeale 1047	26.47	5 Stations	.00
Idaho	3 Stations	90	2	Tetonia Exp. Station	- 4	24	Fenn Ranger Station	8.42	Grouse	.69
Illinois	Moline WSO AP	90	13	Rochelle 6 NW	20	30	Albion	3.95	Galena 1 N	.16
Indiana	8 Stations	89	14+	Lagrange Sewage Plant	23	30	Charlestown Ord Plant	5.21	Elkhart	.56
Iowa	2 Stations	93	12	Pocahontas	17	29	Burlington Radio KBUR	1.28	2 Stations	.00
Kansas	Webster Dam	98	13	Syracuse 2 W	9	25	Mc Cune 6 SW	5.14	58 Stations	.00
Kentucky	Greensburg	92	15	2 Stations	24	31+	Glasgow	8.16	Hickman 1 E	1.42
Louisiana	Shreveport WSO AP	94	11	Logansport 4 ENE	32	4	Sugartown	11.37	New Iberia 5 NW	.43
Maine	2 Stations	76	1	Houlton FAA AP	15	31	Belfast	5.18	Caribou WSO AP	1.51
Maryland	Baltimore WSO CI	90	14	Bittinger 2 NW	11	31	Cumberland Police Barracks	5.11	Potomac Filter Plant	2.24
Massachusetts	Chester 2	87	15	Chester 2	17	31	Franklin	8.00	Nantucket FAA AP	2.70
Michigan	2 Stations	87	14+	Vanderbilt 11 ENE	10	30	Mott Island Isle Royal	2.92	Sandusky	.42
Minnesota	4 Stations	89	13+	Tower 3 S	9	29	Crookston NW Exp. Station	2.76	Preston	.14
Mississippi	2 Stations	93	13	Holly Springs 4 N	30	3	Leakesville	10.45	Vance	1.08
Missouri	Nevada Sewage Plant	93	11	2 Stations	22	26+	Stockton Dam	3.66	2 Stations	T
Montana	Mildred	93	6	Cooke City	- 6	24	Hungry Horse Dam	5.89	Bloomfield	.48
Nebraska	2 Stations	96	13+	Agate 3 E	6	25	Hay Springs	1.13	7 Stations	.00
Nevada	2 Stations	99	5+	2 Stations	5	25+	North Fork 7 NW	4.43	2 Stations	.00
New Hampshire	5 Stations	80	16+	Mount Washington	3	31	Mount Sunapee	7.15	Monroe 5 NNE	3.79
New Jersey	Burlington	89	15	2 Stations	23	31	Charlotteburg Reservoir	5.61	Atlantic City	1.74
New Mexico	3 Stations	94	13+	Tierra Amarilla 4 NNW	5	25	Redrock 1 NE	1.21	55 Stations	.00
New York	2 Stations	87	15+	Old Forge	7	31	Salem	7.56	Buffalo WSO AP	1.13
North Carolina	New Bern FAA AP	89	6	Canton 1 SW	20	31	Lake Toxaway 2 SW	12.23	Butner Filter Plant	.90
North Dakota	Medora	91	6	Belcourt Indian Res.	9	28	Larimore	2.70	Hurdsfield	.14
Ohio	Toledo Blade	88	14	Chardon	15	31	Cincinnati-Fernbank	5.27	2 Stations	1.25
Oklahoma	Chattanooga 3 NE	99	10	Hooker 2 SW	17	25	Baird 4 N	3.96	12 Stations	.00
Oregon	Riddle 2 NNE	96	1	2 Stations	10	24	Port Orford 5 E	19.24	Morgan 3 NE	.74
Pennsylvania	Palmerton	92	14	Madera	8	31	Ephrata	6.44	Jersey Shore	1.31
Puerto Rico	San Sebastian 2 WNW	95	18	2 Stations	58	28+	Maricao 2 SSW	21.60	Mora Camp	1.96
Rhode Island	Providence WSO AP	82	15	North Foster 1 E	26	31	Woonsocket	7.00	Providence WSO AP	4.66
South Carolina	Ridgeland 5 NE	90	13	3 Stations	29	31	Rainbow Lake	8.59	Beaufort 7 SW	.68
South Dakota	2 Stations	97	6+	Pactola Dam	7	25	Pierre FAA AP	1.76	Maurine 10 SW	.10
Tennessee	Moscow	93	13	Mountain City 2	20	31	Coldwater	10.64	Mountain City 2	1.29
Texas	3 Stations	99	24+	Bravo	18	25	Sam Rayburn Dam	9.51	41 Stations	.00
Utah	Saint George	92	6+	2 Stations	- 2	28+	Pine View Dam	6.12	Mexican Hat	T
Vermont	Vernon	82	16	2 Stations	20	31	Ball Mountain Lake	7.15	Saint Albans Bay	3.13
Virginia	Hopewell	89	14	2 Stations	18	31	Galax Radio WBOB	9.34	Speedwell	.98
Virgin Islands	3 Stations	90	13+	Alex Hamilton Field FAA	65	31	Castle Nugent	7.21	Annas Hope	1.79
Washington	Pleasant View	91	3	Chesaw 4 NNW	14	24	Clearwater	33.40	Richland	.56
West Virginia	Logan 2 ESE	88	15	Canaan Valley	12	31	Williamson 2 NNW	4.97	Matoaka	.90
Wisconson	2 Stations	90	14+	2 Stations	12	29	Merrill	3.23	Prairie DU Chien	T
Wyoming	Torrington Exp. Farm	91	6	Fontenelle Dam	- 8	25	Lake Yellowstone	5.38	Moorcroft	.37

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure		Temperature								No of days			Average relative humidity	Precipitation			No of days		Snow, Ice pellets		Wind					No of days (sunrise to sunset)			Sky cover, tenths (sunrise to sunset)	Possible sunshine
		Station	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min 0 C or lower	Average dew point		Total	Departure from normal	Greatest in 24 hours	25 mm or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Fastest mile (1.6 kilometers) Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10		
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
ALABAMA																																
BIRMINGHAM	189	997.3	1019.9	23.3	11.7	17.5	0.1	31.1	13	3.9	20	0	0	13.3	81	95	29	41	8	0	0	0	0.5	5	9.4	SE	16	13	7	11	5.2	65
HUNTSVILLE	191	997.3	1020.4	22.4	11.6	17.0	0.2	30.6	13+	3.3	20	0	0	12.2	78	306	241	153	9	1	0	0	0.7	5	9.4	29	17+	13	5	13	5.5	
MOBILE	64	1011.5	1018.4	26.7	15.8	21.3	0.8	31.7	9	8.9	20+	0	0	15.6	75	171	106	92	6	0	0	0	1.3	4	8.9	16	16	15	6	10	4.6	
MONTGOMERY	59	1012.2	1019.4	26.2	14.9	20.6	1.8	31.7	15+	7.2	20	0	0	15.6	77	163	106	61	8	1	0	0	0.8	6	12.5	SW	15	14	8	9	4.6	65
ALASKA																																
ANCHORAGE	35	998.0	1002.8	4.7	-1.9	1.4	-0.1	11.7	3	-15.0	31	0	16	-3.9	69	19	-19	11	8	0	T	0	1.0	1	10.3	16	21	10	4	17	6.4	53
ANNETTE	34	1002.1	1006.1	10.4	5.1	7.8	-0.5	16.7	2+	-2.2	28	0	3	4.4	84	224	-229	47	22	0	0	0	2.5	15	17.4	16	15	2	3	26	8.6	
BARROW	9	1013.9	1014.5	-12.4	-17.4	-14.9	-5.6	-1.1	6	-30.0	29	0	31	-16.1	88	10	-4	3	11	0	109	127	1.7	4	10.3	31	27+	5	5	21	7.5	
BARTER ISLAND	12	1011.8	1012.7	-9.8	-15.0	-12.4	-3.7	0.6	6	-27.8	29	0	31	-13.9	88	14	-7	5	18	0	175	102	2.9	27	21.9	27	28	1	7	23	8.7	
BETHEL	38	1001.7	1006.5	1.6	-3.8	-1.1	-0.1	8.9	11	-20.0	31	0	26	-3.3	87	53	19	12	16	0	36	25	2.3	35	14.3	32	24	6	2	23	7.9	
BETTLES	196			-4.2	-11.4	-7.8	-1.1	7.8	1	-35.6	31	0	31			16	-15	7	8		183	127			8.9	5	22	4	4	23	8.1	
BIG DELTA	386			-1.8	-9.6	-5.7	-1.9	10.0	14	-39.4	31	0	28			10	-4	5	6		239	178										
COLD BAY	29	1002.7	1006.2	6.4	1.7	4.1	-0.2	11.1	11+	-8.3	31	0	9	1.7	83	81	-29	23	21	0	94	51	2.4	31	19.7	16	21	0	3	28	9.4	
FAIRBANKS	133	991.2	1007.6	-0.9	-8.1	-4.5	-0.7	13.9	2	-32.8	31	0	27	-8.3	75	20	2	7	12	0	366	229	0.5	1	9.8	25	25	5	7	19	7.2	
GULKANA	479			2.8	-6.4	-1.8	1.1	11.1	5+	-23.9	31	0	25			6	-17	6	2		13	25										
HOMER	19			6.8	-1.4	2.7		11.1	8+	-16.7	31+	0	18			48	-38	13	13	0	0	0			12.5	2	15	10	5	16	6.2	
JUNEAU	4	1003.7	1004.4	8.7	2.2	5.4	0.0	14.4	7+	-7.2	28	0	9	1.7	80	90	-109	15	21	0	135	127	2.7	11	11.6	12	19	1	3	27	9.1	23
KING SALMON	15	1001.4	1003.4	4.0	-3.6	0.2	-0.7	11.1	11+	-20.6	31	0	18	-3.3	78	53	3	23	16	0	20	25	1.4	36	13.0	19	23+	8	4	19	6.7	
KODIAK	4	997.0	1001.2	7.5	0.9	4.2	-0.6	11.7	10	-12.2	31	0	9	0.0	77	203	43	69	16	0	30	254	2.5	31	15.6	6	15	5	7	19	7.1	
KOTZEBUE	3	1009.1	1009.5	-3.9	-9.0	-6.4	-1.8	4.4	6	-28.3	31	0	31	-9.4	79	22	6	4	15	0	277	203	3.1	6	17.0	10	20+	9	2	20	7.1	
MC GRATH	105	993.9	1007.0	-0.8	-8.6	-4.7	-0.9	9.4	2+	-26.1	31	0	31	-7.2	81	50	19	19	14	0	419	152	1.2	36	7.6	20	21+	7	3	21	6.9	
NOME	4	1007.1	1008.0	-2.3	-7.1	-3.7	-1.7	6.1	11	-21.1	31	0	29	-7.2	77	13	-23	6	11	0	107	25	1.6	2	13.9	24	20	7	5	19	6.9	27
ST. PAUL ISLAND	7	1006.8	1007.5	4.5	0.2	2.3	-0.9	8.3	5+	-5.0	31+	0	20	0.0	85	53	-27	16	16	0	51	25	2.1	1	21.5	18	22	2	0	29	8.9	
SUMMIT	731			-1.7	-8.4	-5.1	-0.6	7.2	2	-26.1	31	0	31			15	-26	4	9	0	254	152			12.5	8	19+	9	3	19	5.5	
TALKEETNA	105			4.3	-5.4	-0.5	-0.6	15.0	3	-18.3	31	0	22			62	-2	18	12	0	394	178			10.7	1	30+					
UNALAKLEET	5			0.2	-5.8	-2.8		6.1	1	-24.4	31	0	28			12		4	12		112	76			17.9	22	21					
VALDEZ	7			5.9	-0.1	2.9	-0.1	13.3	6+	-13.3	31	0	15			140	-31		13		373				13.4	12	31	6	9	16	6.6	
YAKUTAT	9	1000.7	1001.8	7.9	0.7	4.3	-0.6	16.1	5	-11.7	31	0	14	1.7	85	430	-64	123	21	1	432	279	2.1	8	9.4	12	16	4	4	23	8.1	
ARIZONA																																
FLAGSTAFF	2135	789.4	1017.6	18.7	-2.6	8.1	-0.3	26.7	5	-12.8	24	0	25	-6.1	42	8	-26	5	4	2	T	0	0.8	20	13.9	SW	7	22	8	1	2.0	69
PHOENIX	340	974.3	1012.9	30.7	14.7	22.7	0.4	37.8	5	6.1	25	16	0	3.9	32	6	-6	6	2	1	0	0	0.9	16	17.0Y	W	31	25	6	0	1.1	97
TUCSON	788	925.5	1012.5	29.1	12.6	20.8	-0.3	34.4	11+	4.4	25+	9	0	-0.6	26	T	-17	T	0	1	0	0	1.5	17	13.9	SW	12	26	5	0	1.1	99
WINSLOW	1492	853.0	1015.9	22.7	2.7	12.7	-1.3	30.0	6	-7.2	25	0	10	-3.9	36	T	-18	T	0	0	0	0	1.5	[illegible]	15.6	22	12	26	5	0	1.5	
YUMA	59	1005.8	1012.8	30.7	14.9	22.8	-1.6	39.4	5	8.3	26	10	0	5.6	36	[illegible]	-7	0	0	0	0	0	0.9	[illegible]	12.5	W	30+	26	3	2	1.3	96
ARKANSAS																																
FORT SMITH	136	1002.0	1018.8	25.6	8.2	16.9	-0.4	33.3	11+	-0.6	26+	3	2	9.4	67	7	-81	5	2	0	0	0	0.7	8	13.0	SW	24	19	6	6	3.2	76
LITTLE ROCK	78	1010.2	1019.6	24.7	9.7	17.2	0.3	33.3	11	2.2	19	2	0	11.1	71	41	-35	35	4	1	0	0	0.3	17	13.9	SW	24	19	2	10	3.8	62
CALIFORNIA																																
BAKERSFIELD	145	999.0	1016.6	25.6	12.8	19.2	-0.2	36.7	5	6.1	24	6	0	3.9	56	12	6	6	6	1	0	0	0.9	35	13.0	33	6	19	8	4	2.7	
BISHOP	1252	874.4		22.6	2.2	12.4	-1.6	30.6	5+	-5.6	24	0	10			2	-4	2	2		0	0			21.5Y		12	23	6	2	2.2	
BLUE CANYON	1609	839.5		13.3	4.4	8.9	-3.3	25.6	1	-2.2	27	0	8	-1.1	57	246	141	91	10		46	T	1.6	17	9.8	19	26					
EUREKA U	13			15.4	9.2	12.3	-0.1	18.9	29+	3.3	23	0	0			172	[illegible]	72	14		0	0			14.8	SE	9	8	8	15	6.5	42
FRESNO	[illegible]	1005.1	1015.8	23.8	8.8	16.3	-1.6	33.3	5+	1.7	23	4	0	8.3	64	27	17	19	5	0	0	0	0.4	31	13.9	NW	22	22	5	4	2.6	82
LONG BEACH	8	1014.2	1015.7	25.1	13.5	19.3	-0.1	34.4	3	8.3	31	2	0	12.2	69	6	2	3	4	0	0	0	1.2	26	13.3	29	30	16	10	5	3.6	
LOS ANGELES	[illegible]	1011.9	1015.5	23.0	14.2	18.6	0.2	30.0	15	9.4	26	0	0	11.7	73	6	1	4	3	0	0	0	1.7	26	16.5Y	W	30	16	9	6	3.5	
LOS ANGELES	81			23.9	14.3	19.1	-1.1	33.9	4	10.0	26	2	0			7	0	4	3		0	0			8.9	SW	6	17	8	6	3.4	73
MT SHASTA R	[illegible]	893.7	1018.4	14.9	2.9	8.9	-1.9	29.4	1	-1.7	28+	0	7	2.8	70	99	34	35	9		76	T	0.3	7								
OAKLAND	[illegible]	1017.6	1018.0	18.9	11.2	15.1	-1.1	26.1	20	7.2	28	0	0	10.6	79	112	84	37	7	0	0	0	1.6	27	13.4	15	9	16	6	9	3.9	
RED BLUFF	104	1004.1	1016.8	22.9	9.5	16.2	-2.1	33.3	4	2.8	29+	4	0	7.2	61	87	57	34	8	1	0	0	0.4	29	15.2	NW	21	12	9	10	5.0	81
SACRAMENTO	5	1015.9	1016.8	25.2	11.5	18.4	1.0	35.0	5	5.0	24	3	0	8.9	61	52	26	22	7	0	0	0	0.9	[illegible]	11.2	NW	23	21	4	6	3.2	71
SANDBERG R	1377	863.5		18.2	7.4	12.9	-2.0	28.9	4	-0.6	23	0	1			7	-2	5	2		8	T			17.0	32	23					
SAN DIEGO	4	1014.9	1015.8	22.5	15.1	18.8	-0.1	30.6	3	11.6	25	0	0	11.7	68	2	-6	1	3	0	0	0	1.7	30	9.4	NW	15	16	9	6	4.0	73
SAN FRANCISCO	5	1016.9	1017.8	19.7	10.1	14.9	-1.2	27.8	20	5.6	28	0	0	8.9	72	59	33	29	8	1	0	0	2.8	28	13.4	[illegible]	30+	15	8	8	4.1	
SAN FRANCISCO	15			18.9	11.8	15.4	-0.9	27.8	20	10.6	29+	0	0			62	35	27	8			0										
SANTA MARIA	[illegible]			21.9	7.1	14.5	-1.3	30.0	16	2.2	25	0	0			2	7	1	6		0	0						21	5	5	2.9	
STOCKTON	7	1016.3	1017.1	23.5	9.3	16.4	-1.1	32.8	5	3.9	25	2	0	8.9	68	35	16	13	6	0	0	0	1.4	30	10.3	32	23+	22	3	6	3.3	
COLORADO																																
ALAMOSA	2297	773.5		17.7	-6.2	5.8	-0.9	25.0	5	-17.8	25	0	28			20	2	17	2		13	T						26	3	2	1.7	

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure		Temperature											Average relative humidity	Precipitation							Wind					No. of days (sunrise to sunset)			Sky cover, tenths (sunrise to sunset)	Possible sunshine
												No. of days							No. of days		Snow, Ice pellets				Fastest mile (1.6 kilometers)							
		Station ⊙	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min. 0 C or lower	Average dew point		Total	Departure from normal	Greatest in 24 hours	25 mm. or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10		
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
COLORADO																																
COLORADO SPRINGS	1873	811.7	1015.3	19.8	2.7	11.3	1.0	27.8	12+	-7.8	25	0	10	-6.7	34	13	-10	8	3	0	109	102	0.6	9	18.3	36	22	20	8	3	2.8	
DENVER	1610	836.1	1013.6	21.4	2.2	11.8	0.7	30.6	6	-6.1	25+	0	9	-3.9	41	8	-21	8	1	0	69	76	1.6	19	18.3	N	22	18	7	6	3.6	85
GRAND JUNCTION	1475	853.4	1016.3	20.3	3.6	11.9	-0.8	29.4	6	-7.8	24	0	5	-5.6	36	22	-2	19	5	0	155	127	0.7	13	17.0	NW	12+	16	12	3	3.6	84
PUEBLO	1428	855.1	1013.8	24.0	1.1	12.6	0.1	32.8	12	-10.0	25	1	11	-4.4	36	15	-9	13	2	0	0	0	0.3	31	25.9	N	22	22	4	5	2.7	94
CONNECTICUT																																
BRIDGEPORT		1019.0	1019.5	19.5	10.4	15.0	1.2	26.7	15	1.1	31	0	0	11.1	80	101	30	58	9	1	0	0	1.5	36	13.0	9	18	10	4	17	6.1	
HARTFORD	52	1012.9	1019.5	19.4	6.8	13.2	1.7	29.4	15	-1.7	31	0	2	7.2	70	134	57	51	8	0	0	0	1.2	31	11.2	N	30	9	8	14	5.9	51
DELAWARE																																
WILMINGTON	23	1016.9	1020.0	20.9	10.1	15.6	1.6	30.6	15+	-2.8	31	0	1	9.4	70	78	12	43	9	1	0	0	1.0	33	10.7	34	30	6	7	18	6.7	
DIST.OF COLUMBIA																																
WASHINGTON DULLES	88	1008.5	1020.3	20.4	7.3	13.9	0.6	30.0	14	-5.0	31	0	2	9.4	78	59	-10	29	11	0	0	0	0.7	30	8.9	31	30+	7	10	14	6.2	
WASHINGTON NATIONAL	3	1017.6	1019.9	22.8	11.8	17.3	1.9	30.6	15+	1.1	31	0	0	11.1	71	60	-7	30	10	1	0	0	0.4	31	13.0	NW	30	6	8	17	6.8	56
FLORIDA																																
APALACHICOLA U	6	1017.6	1018.1	26.8	17.4	22.1	0.6	28.9	26+	9.4	20	0	0	17.8	78	156	83	55	8	4	0	0	1.8	10	11.2	SW	17	15	7	9	4.6	
DAYTONA BEACH	9	1016.3	1017.7	28.3	19.7	24.0	1.1	31.7	9	12.8	21	0	0	19.4	78	148	8	39	16	7	0	0	1.5	4	11.2	13	16	10	9	12	5.7	
FORT MYERS	5	1016.6		30.2	21.9	26.1	1.4	33.3	3	18.3	21	6	0			77	-34	29	12	5	0	0	1.9	6	11.2	4	31	6	15	10	5.7	
JACKSONVILLE	8	1018.0	1018.9	27.6	17.1	22.3	0.9	31.1	8	8.3	21	0	0	[illegible]	80	92	-23	24	10	6	0	0	1.7	4	12.1	S	17	11	7	13	5.6	55
KEY WEST	1	1014.9	1015.7	30.0	24.7	27.3	0.9	31.7	9+	21.1	30	0	0	21.7	72	94	-48	31	16	5	0	0	3.6	9	13.0	NE	31	7	14	10	5.7	89
LAKELAND U	65			29.0	19.9	24.4	0.9	32.8	9	15.0	21	2	0			90	18	45	11		0	0						9	17	5	5.1	83
MIAMI	2	1016.3	1016.6	29.2	23.2	26.2	0.8	31.1	9+	19.4	26+	0	0	21.1	76	159	-49	72	17	6	0	0	2.6	7	13.4	9	6	4	16	11	6.2	
ORLANDO/MC COY AFB	29	1014.2	1017.8	29.8	19.7	24.8	1.3	32.2	9+	14.4	21	5	0	19.4	77	120	17	65	14	7	0	0	1.7	3	9.8	18	17	7	13	11	5.5	
PENSACOLA	34	1014.2	1018.5	26.6	16.4	21.5	0.4	31.1	9	8.3	20	0	0	16.1	76	183	104	78	6	1	0	0	1.5	5	11.6	18	16	14	7	10	4.5	
TALLAHASSEE	17	1016.3	1018.7	27.4	14.9	21.2	0.4	31.1	14+	4.4	21+	0	0	16.1	80	112	38	82	6	2	0	0	1.4	4	11.2	19	17	14	5	12	5.0	
TAMPA	6	1016.9	1017.3	30.2	20.8	25.5	1.8	32.8	8+	14.4	21	7	0	20.0	75	125	61	47	8	8	0	0	1.9	6	13.0	8	31	10	6	15	5.9	74
WEST PALM BEACH	5	1016.3	1016.8	28.9	21.8	25.3	0.2	31.7	9	17.8	20	0	0	20.6	78	142	-80	31	18	7	0	0	2.3	7	12.5	4	31+	3	19	9	6.4	
GEORGIA																																
ATHENS	244	990.5	1019.4	23.6	12.8	18.2	1.2	30.0	12	5.0	31+	0	0	13.3	77	97	28	51	4	0	0	0	0.5	1	9.4	25	17	13	6	12	5.0	
ATLANTA	308	983.1	1019.7	22.8	11.9	17.4	0.5	28.9	12	2.8	19	0	0	12.2	77	135	71	53	9	1	0	0	0.8	2	12.1	SE	17	13	6	12	5.1	63
AUGUSTA	41	1014.2	1019.6	26.5	12.1	19.3	1.4	31.7	12	2.2	31	0	0	12.2	71	33	-22	21	4	1	0	0	0.8	36	13.0	15	17	12	11	8	4.9	
COLUMBUS	117	1005.4		25.3	13.3	19.3	0.7	31.7	13	4.4	20	0	0	13.9	76	138	88	77	7	1	0	0	1.4	3	8.9	14	17+	17	4	10	4.5	
MACON	108	1007.1	1019.9	25.8	12.6	19.2	0.5	30.6	14+	4.4	21	0	0	13.3	75	90	31	42	6	0	0	0	0.9	2	12.5	S	17	16	3	12	4.7	67
ROME	194			23.5	10.8	17.2	1.1	30.6	14+	0.6	31	0	0			113	39	56	8		0	0										
SAVANNAH	14	1018.0	1019.8	26.9	15.3	21.1	1.6	31.7	12	6.7	20	0	0	15.6	75	32	-40	23	3	2	0	0	1.3	3	9.8	SE	17	11	8	12	5.0	60
HAWAII																																
HILO	8	1016.6	1017.7	27.5	19.9	23.7	-0.2	29.4	2	18.3	22+	0	0	19.4	80	226	-53	31	27	3	0	0	0.3	20	8.0	E	25	0	8	23	8.2	22
HONOLULU	2	1016.6	1017.2	29.9	22.4	26.2	0.1	31.1	24+	17.8	31	0	0	18.9	67	5	-34	3	4	1	0	0	5.4	6	12.1	NE	18	4	20	7	5.9	64
KAHULUI	15	1014.2	1016.7	28.4	20.3	24.4	-0.8	30.6	9	15.6	30	0	0			9	-18	5	5	1	0	0	5.7	6	16.1	E	25	11	10	10	5.7	69
LIHUE	31	1013.2	1018.4	28.1	22.7	25.4	0.2	30.0	24	19.4	23+	0	0	20.0	72	26	-71	6	15	1	0	0	5.3	7	10.3	E	28	9	16	6	5.3	67
IDAHO																																
BOISE	865	915.7	1016.1	17.2	5.3	11.3	0.1	32.2	2	-5.0	24	1	3	0.0	50	51	30	13	9	0	T	0	0.9	12	14.8	SE	25	7	4	20	6.9	43
LEWISTON	431			15.6	5.9	10.8	-0.2	31.7	2	-0.6	24	0	1			49	21	19	14		0	0			17.9Y		5	4	8	19	7.8	
POCATELLO	1359	863.2	1016.3	15.5	2.3	6.9	-0.2	27.8	6+	-6.1	23	0	8	-1.1	56	65	45	26	8	0	193	152	3.8	22	15.6	SW	6	6	9	16	6.8	56
ILLINOIS																																
CAIRO U	96			22.6	11.8	17.2	0.7	31.7	12	5.0	30	0	0			60	-8	27	7		0	0			10.7	SW	21					66
CHICAGO O HARE	201	993.9	1018.4	19.8	6.6	13.2	1.1	30.6	13	-0.6	30	0	2	6.1	64	48	-11	30	4	2	0	0	1.8	21	12.5	18	31	13	12	6	4.4	
CHICAGO MIDWAY	185	996.3	1019.1	19.6	7.7	13.7	0.7	31.7	14	0.6	26	0	0	5.6	61	57	-9	31	4	2	0	0	1.6	20	12.1	NE	18	13	10	8	4.5	77
MOLINE	177	996.6	1018.4	20.8	6.0	13.4	1.0	32.2	13	-1.7	30	1	3	5.0	60	23	-45	16	3	3	0	0	1.8	20	14.3	W	24	16	10	5	3.5	77
PEORIA	199	994.9	1019.2	19.8	6.1	12.9	0.2	29.4	13	-1.1	26	0	1	5.1	66	92	28	49	4	2	0	0	1.5	18	12.1	SW	24	11	13	7	4.6	74
ROCKFORD	221	991.5	1018.7	19.4	4.0	11.7	0.2	30.6	13	-4.4	30	0	5	3.3	62	25	-47	11	3	2	0	0	1.6	20	12.1	18	24+	12	11	8	4.4	
SPRINGFIELD	179	997.0	1019.4	21.2	7.4	14.3	0.6	31.1	13	-0.6	26	0	1	7.2	65	35	-43	21	5	1	0	0	1.4	19	13.4	W	24	10	12	9	4.8	76
INDIANA																																
EVANSVILLE	116	1005.8	1019.8	21.4	7.9	14.7	0.1	31.7	13	1.1	30+	0	0	8.9	72	69	5	37	7	1	0	0	0.4	22	13.4	W	15	15	4	12	4.8	63
FORT WAYNE	241	989.5	1019.7	18.4	5.9	12.2	0.2	28.9	13	-1.1	30	0	3	6.1	69	43	-29	18	9	0	0	0	1.2	23	14.3	NW	25	12	9	10	5.1	69

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure		Temperature											Average relative humidity	Precipitation							Wind					No of days (sunrise to sunset.			Sky cover, tenths (sunrise to sunset)	Possible sunshine
												No of days							No of days		Snow, Ice pellets				Fastest mile (1.6 kilometers)							
		Station Ø	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min 0 C or lower	Average dew point		Total	Departure from normal	Greatest in 24 hours	25 mm or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy 8-10		
INDIANA	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
INDIANAPOLIS	241	990.9	1020.0	19.9	6.7	13.3	0.1	30.0	13	-1.1	31	0	2	8.3	76	71	7	26	7	1	0	0	0.6	23	13.9	N	17	10	9	12	5.5	66
SOUTH BEND	236	990.9	1018.6	19.6	7.0	13.3	1.4	30.0	13	-1.1	30	0	1	6.7	70	33	-44	22	7	0	0	0	1.5	24	10.7	21	24+	12	10	9	5.0	
IOWA																																
BURLINGTON	214			20.2	6.6	13.4	0.4	30.6	13	0.0	19+	0	2	6.1	65	33	-44	17	3	2	0	0	1.5	20	10.3	18	31+	18	8	5	3.5	
DES MOINES	286	982.4	1017.3	21.2	6.7	14.0	1.6	32.2	12	-1.7	29	1	4	4.4	56	16	-38	11	3	1	0	0	2.1	19	13.0	SW	26+	16	8	7	3.5	86
DUBUQUE	322	978.7		18.2	4.6	11.4	0.4	29.4	13	-1.7	26	0	7			10	-61	5	3		0	0										
SIOUX CITY	334	975.6	1015.6	21.3	4.4	12.8	1.1	33.3	13+	-5.0	29	2	7	3.3	57	2	-40	1	2	0	0	0	1.6	19	13.4	S	30+	15	8	8	4.0	84
WATERLOO	265	985.4	1017.6	19.7	2.8	11.2	0.3	32.2	13	-7.8	29	1	14	1.1	52	1	-59	1	2	2	0	0	2.4	20	12.5	18	26	15	7	9	4.3	
KANSAS																																
CONCORDIA	448	963.1	1015.6	23.6	7.1	15.3	1.4	34.4	11	-4.4	25	3	4	3.9	50	12	-34	11	3	2	0	0	3.1	18	15.6	S	13	23	4	4	2.5	94
DODGE CITY	787	924.8	1015.1	25.2	6.6	15.9	1.5	34.4	12+	-5.6	25	5	3	0.6	41	T	-42	T	1	1	0	0	3.0	18	18.6	SW	22	25	6	0	1.6	94
GOODLAND	1114	887.6	1013.9	23.1	3.3	13.2	1.7	34.4	12	-6.7	24	2	6	-2.2	39	1	-25	1	1	0	T	T	2.1	21	17.0	17	7	22	6	3	2.4	
TOPEKA	267	985.4	1017.4	23.7	6.6	15.2	0.9	34.4	11	-3.3	25	3	6	6.7	61	1	-66	1	2	1	0	0	2.2	18	13.4	S	23	18	8	5	3.2	62
WICHITA	403	969.2	1016.8	24.3	7.2	15.7	0.4	34.4	11	-4.4	25	2	2	5.6	55	2	-61	2	1	1	0	0	3.1	18	15.6	SW	13	24	3	4	2.4	84
KENTUCKY																																
COVINGTON	265	988.2	1019.7	20.3	8.1	14.2	0.4	30.6	13	-1.1	3	0	1	8.3	71	117	62	57	8	0	0	0	0.8	22	11.2	5	17	11	7	13	5.7	
LEXINGTON	294	985.1	1020.6	19.6	8.6	14.1	-0.2	28.3	13	1.1	31+	0	0	8.9	75	129	75	67	8	2	0	0	0.8	18	9.8	4	17	12	4	15	5.9	
LOUISVILLE	145	1002.0	1019.7	21.3	9.1	15.2	0.7	31.1	13	1.7	31+	0	0	10.0	76	155	96	63	9	1	0	0	0.4	18	11.6	N	17	13	5	13	5.5	58
LOUISIANA																																
ALEXANDRIA	28	1014.6	1018.8	26.2	12.6	19.4	0.6	32.8	11+	4.4	31	2	0	14.4	77	156	73	118	7	1	0	0	0.8	4	8.0	3	2	15	8	8	4.3	
BATON ROUGE	20	1015.9	1018.8	26.8	14.3	20.6	0.3	31.1	12	7.2	31	0	0	15.6	77	66	-2	40	5	2	0	0	1.3	5	9.4	35	17	14	7	10	5.0	
LAKE CHARLES	3	1017.3	1018.3	27.3	14.2	20.8	-0.3	31.1	12	7.8	4	0	0	16.1	81	64	-25	28	7	1	0	0	1.2	7	8.9	2	25+	12	14	5	4.5	
NEW ORLEANS	1	1017.3	1018.2	26.3	15.8	21.1	0.1	30.0	14+	8.3	19	0	0	17.2	82	102	44	87	4	0	0	0	1.5	5	10.7	13	15	14	7	10	5.1	60
SHREVEPORT	77	1009.5	1018.7	27.8	12.2	20.0	0.3	34.4	11	6.1	20+	3	0	12.2	68	98	25	70	5	1	0	0	0.7	12	9.4	36	25+	16	9	6	3.7	73
MAINE																																
CARIBOU	190	994.2		11.2	0.2	5.7	-0.8	21.1	25+	-6.7	31	0	17			39	-46	10	11		T	0						8	10	13	6.3	
PORTLAND	13	1016.6	[illegible]	15.4	3.8	9.6	0.1	21.7	1	-3.9	31	0	8	5.0	75	114	30	37	11	0	T	0	1.0	32	11.2	N	16+	11	6	14	5.7	64
MARYLAND																																
BALTIMORE	45	1014.6	1020.3	21.3	10.5	15.9	1.8	30.0	15+	0.0	31	0	1	10.6	75	73	2	32	9	0	0	0	1.0	30	11.6	N	30	8	9	14	6.4	49
MASSACHUSETTS																																
BLUE HILL OBS R	192			17.3	7.6	12.4	0.7	25.7	15	-2.2	31	0	2			162	70	78	10		T	T			18.3	SSE	25					59
BOSTON	5	1018.3	1019.3	18.2	9.9	14.1	1.1	25.6	1	1.1	31	0	0	7.2	66	112	35	56	10	0	T	0	1.2	31	12.1	NW	16	11	9	11	5.4	67
WORCESTER	301	982.1		15.8	5.9	10.8	-0.1	25.0	15	-4.4	31	0	3			154	64	56	11	1	T	0	1.4	31	11.2	28	16	10	8	13	5.9	
MICHIGAN																																
ALPENA	210	992.6	[illegible]	15.3	3.6	9.4	0.9	26.7	13	-5.6	30	0	5	5.6	79	23	-27	8	10	4	T	T	1.2	23	10.3	NW	29+	8	8	15	6.0	55
DETROIT	189			17.9	8.5	13.2	0.8	28.9	14	0.0	30	0	1	6.7	67					0			1.7	23	14.2	5	17					
DETROIT METRO	193	994.9	1019.1	17.6	5.6	11.6	-0.1	28.3	14+	-2.8	31	0	4	6.1	70	33	-30	10	7	0	0	0	1.3	24	14.3	NE	18	12	5	14	5.4	59
FLINT	235	[illegible]	1018.5	17.6	6.4	12.0	1.3	28.3	13	-2.8	30	0	2	5.6	65	35	-22	18	7	0	0	0	1.6	23	11.6	19	31	9	8	14	5.8	
GRAND RAPIDS	239	989.5	1018.8	18.6	4.7	11.7	0.6	30.6	13	-2.8	30	0	5	5.0	68	26	-39	21	7	2	0	0	1.6	22	13.9	SW	15	10	6	15	5.9	64
HOUGHTON LAKE	350	976.	1018.3	15.4	4.1	9.8	1.1	25.6	14	-6.7	30	0	5	4.4	70	27	-44	15	8	4	T	T	1.3	25	11.2	25	25+	9	7	15	5.9	
LANSING	256	986.9	1018.6	17.8	4.7	11.2	0.3	28.3	13	-4.4	30	0	5	3.9	63	24	-35	9	6	[illegible]	0	[illegible]	1.8	21	13.0	N	25	10	8	13	5.6	61
MARQUETTE	[illegible]			14.1	5.9	10.1	0.8	22.2	8+	-0.6	30	0	2			34	-28	10	10		T	T			14.3	SW	7	6	8	17	6.8	55
MUSKEGON	191	995.5	1018.8	17.2	6.5	11.8	0.9	[illegible]	14	-1.1	30	0	2	6.7	71	27	-39	17	6	2	0	0	1.7	22	14.5	19	14	8	11	12	5.9	
SAULT STE MARIE	220	[illegible]	[illegible]	13.9	3.2	8.6	0.7	22.8	24	-8.9	30	0	7	3.9	75	29	-43	11	10	4	T	0	[illegible]	18	11.6	SW	25+	6	8	17	6.9	46
MINNESOTA																																
DULUTH	435	963.1	[illegible]	12.6	3.7	8.2	0.8	25.6	[illegible]	-7.8	29	0	6	1.7	66	[illegible]	-26	21	7	[illegible]	T	T	1.1	17	18.3	NE	14	10	7	14	[illegible]	53
INTERNATIONAL FALLS	359	[illegible]	1013.9	12.7	1.6	[illegible]	0.7	17.3	[illegible]	-6.7	29	0	13	2.2	74	67	[illegible]	26	8	2	53	15	1.2	19	11.6	5	14	7	6	18	6.6	
MINNEAPOLIS	254	985.1	1015.7	18.2	4.9	11.6	1.6	30.6	[illegible]	-3.9	29	0	5	3.3	58	7	-38	6	3	3	0	0	1.7	20	15.2	S	26	13	3	15	5.5	67
ROCHESTER	395	968.5	1015.4	19.3	3.9	11.6	1.8	29.4	13+	-5.6	29	0	11	2.8	59	17	-29	17	1	3	T	0	3.3	[illegible]	14.3	16	30	10	9	12	5.2	
ST CLOUD	313	[illegible]	1015.6	15.9	1.7	8.8	0.2	27.2	7+	-7.2	29	0	13			[illegible]	-15	24	4		0	0						12	4	15	5.4	
MISSISSIPPI																																
JACKSON	91	1007.1	[illegible]	25.7	12.3	19.0	0.2	32.2	12	3.3	31	1	0	14.4	62	[illegible]	153	78	6	1	0	0	0.7	8	8.9	N	16	15	4	12	4.7	60

CLIMATOLOGICAL DATA
METRIC UNITS

State and Station	Elevation (ground)	Pressure		Temperature											Average relative humidity	Precipitation							Wind					No. of days (sunrise to sunset)			Sky cover, tenths (sunrise to sunset)	Possible sunshine
												No. of days							No. of days		Snow, Ice pellets				Fastest mile (1.6 kilometers)							
		Station ⊙	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min. 0 C or lower	Average dew point		Total	Departure from normal	Greatest in 24 hours	25 mm or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10		
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m s		m s							%
MISSISSIPPI																																
MERIDIAN	88	1008.5	1019.6	24.1	10.5	17.3	-0.9	30.6	13	3.3	20+	0	0	13.3	84	109	54	64	8	1	0	0	0.8	34	7.6	36	30+	14	5	12	5.0	
MISSOURI																																
COLUMBIA REGIONAL	270	986.8	1019.3	20.7	7.7	14.2	-0.2	30.0	12	0.6	26	0	0	7.2	65	52	-34	25	4	2	0	0	1.5	17	13.4	NW	14	15	10	6	4.3	80
KANSAS CITY	309	980.7	1017.3	21.2	8.6	14.9	0.2	31.7	12	-1.1	25	0	1	5.7	62	9	-73	7	3	2	0	0	2.8	18	13.4	S	26	20	9	2	2.6	78
ST JOSEPH	247			23.3	6.5	14.9	0.7	33.3	12	-2.8	25	2	7			T	-63		0													
ST LOUIS	163	999.3	1019.7	22.1	7.9	15.0	-0.1	31.1	13	-1.7	26	0	1	8.3	68	5	-66	4	4	0	0	0	0.9	18	10.7	N	17+	15	12	4	3.9	80
SPRINGFIELD	386	973.6	1018.9	21.7	7.7	14.7	-0.3	31.7	11	-0.6	19	0	2	7.8	69	27	-61	13	4	3	0	0	1.8	16	11.2	S	23	18	7	6	3.2	77
MONTANA																																
BILLINGS	1087	889.9	1014.2	14.8	2.8	8.8	-0.8	30.6	3	-6.1	24	0	10	-2.8	51	68	45	29	9	0	84	25	2.4	26	17.9	SW	4	8	7	16	6.5	52
GLASGOW	696	930.9	1013.6	13.6	0.8	7.2	-0.8	29.4	3	-6.7	24	0	13	-0.6	65	45	31	27	5	0	178	51	0.4	36	13.4	28	4	5	7	19	7.4	
GREAT FALLS	1116	886.2	1014.3	13.0	2.2	7.6	-1.4	27.2	3+	-5.0	27	0	12	-1.1	61	87	70	28	10	0	422	127	4.2	23	23.2	SW	4	3	8	20	7.5	54
HAVRE	788	920.8	1013.3	14.2	0.8	7.6	-0.6	28.9	3+	-7.8	28	0	13	-0.6	62	24	9	18	7	1	38	T	2.3	25	20.1	W	18+	4	8	19	7.4	41
HELENA	1167	879.8	1016.0	12.5	0.1	6.3	-1.1	25.0	5	-5.6	24	0	16	-1.1	64	69	53	18	9	0	160	25	2.2	26	17.9	NW	4	4	6	21	7.5	46
KALISPELL	904	910.6	1015.9	11.7	1.2	6.4	0.6	22.8	2	-3.3	16	0	13	1.1	72	42	12	16	15	0	97	25	0.8	23	11.2	23	4	3	3	25	8.5	
MILES CITY	801	920.1	1013.5	14.7	2.2	8.5	-0.8	30.6	3	-3.9	28+	0	10	0.6	66	59	41		9	0	71		0.9	29								
MISSOULA	972	903.8	1016.4	12.3	0.6	6.4	-0.3	26.1	5	-3.9	23	0	17	1.7	78	89	66	30	14	0	127	102	0.6	28	12.1	W	4	4	2	25	7.9	30
NEBRASKA																																
GRAND ISLAND	561	949.2	1015.2	22.6	4.2	13.4	1.3	33.9	12	-5.0	25	2	7	1.1	48	3	-25	3	1	0	0	0	2.3	20	15.6	17	7	20	5	6	3.1	
LINCOLN	359	973.2	1015.8	23.2	4.9	14.1	1.3	33.9	12	-5.6	25	2	6	2.8	51	T	-39	T	1	0	0	0	2.2	20	17.0	S	13	19	7	5	3.4	84
NORFOLK	471			21.0	4.6	12.8	1.4	32.8	12	-3.3	25	2	5			4	-30	3	2		T	0						18	5	8	3.7	
NORTH PLATTE	846	917.0	1015.1	21.6	-0.6	10.5	-0.1	31.1	12+	-10.6	25	0	19	-0.6	51	4	-22	4	2	0	20	T	0.1	19	15.2	SE	7	15	10	6	3.9	84
OMAHA	298	980.4	1015.7	23.4	5.6	14.6	1.3	35.0	12	-3.9	29+	2	4	4.4	55	T	-49	T	1	0	0	0	1.9	19	13.9	S	12	20	6	5	3.3	83
SCOTTSBLUFF	1206	878.8	1014.4	20.6	0.4	10.5	0.4	32.8	6	-10.6	25	1	14	-2.8	45	19	-2	18	3	0	155	127	0.8	34	16.5	28	8	9	12	10	5.1	
VALENTINE	789			19.8	1.7	10.7	0.7	33.3	4	-6.7	25	1	12			8	-15	T	2		28	25			22.4	S	7	15	9	7	4.4	79
NEVADA																																
ELKO	1539	845.6	1017.3	16.3	-0.3	8.0	-0.3	28.3	5	-10.0	24	0	18	-3.3	54	36	19	14	9	0	15	0	0.9	22	13.4	31	22	12	6	13	5.6	
ELY	1906	809.7	1016.6	16.5	-2.3	7.1	-0.7	26.7	2	-13.3	24	0	24	-4.4	51	23	8	12	7	1	142	25	2.5	20	15.2	S	9+	12	6	13	5.1	78
LAS VEGAS	659	938.7	1014.8	26.4	11.4	18.9	-0.6	35.6	4	2.8	25	7	0	-3.3	25	1	-5	1	2	0	0	0	1.8	26	17.0	SW	30	26	3	2	1.9	91
RENO	1342	866.9	1016.7	20.1	-0.6	9.7	-0.4	30.6	2+	-9.4	29	0	19	-1.1	52	4	-7	2	5	0	T	T	1.3	25	18.8	SW	9	13	11	7	4.4	95
WINNEMUCCA	1311	869.3	1016.6	18.2	1.3	9.8	0.7	31.1	2	-6.7	24	0	15	-1.7	52	44	28	15	11	0	T	T	1.2	22	12.5	SW	6	11	9	11	5.4	61
NEW HAMPSHIRE																																
CONCORD	104	1006.8	1019.6	16.0	1.3	8.7	-0.9	26.1	15	-7.2	31	0	15	3.9	77	109	41	54	11	0	0	0	1.1	31	12.5	W	16	10	8	13	5.9	57
MT WASHINGTON OBS	1909			3.7	-3.5	0.1	0.4	8.9	25	-16.1	31	0	26			167	12	40	16	1	119	51			48.3Y	NW	7	8	3	20	7.4	36
NEW JERSEY																																
ATLANTIC CITY	20	1017.3	1019.8	19.3	8.4	13.9	0.2	27.8	15+	-3.3	31	0	3	10.0	80	45	-43	21	9	0	0	0	0.9	32	9.4	18	18	8	7	16	6.5	49
ATLANTIC CITY U	3			19.1	11.2	15.2	0.2	28.9	14	-1.1	31	0	2			44	-33	24	9			0			11.6	E	17					
NEWARK	7	1018.6	1019.6	19.7	10.4	15.1	0.9	29.4	14	-1.7	31	0	2	8.9	70	82	11	33	9	1	0	0	1.2	32	10.3	33	30	8	6	17	6.5	
TRENTON	17			19.7	10.6	15.2	1.2	30.0	14	-1.1	31	0	1			103	38	58	10		0	0			12.5	NW	30	9	6	16	6.3	46
NEW MEXICO																																
ALBUQUERQUE	1619	839.8	1015.5	22.8	4.3	13.6	-0.9	28.3	11	-3.9	24	0	3	-2.8	34	T	-20	T	0	0	0	0	0.6	24	14.3	NW	23	26	4	1	1.1	94
CLAYTON	1515			22.4	4.3	13.4	0.7	28.3	11+	-6.1	25	0	5			T	-28	T	0		0	0										
ROSWELL	1112	891.0	1014.3	26.1	7.8	16.9	1.6	32.2	12	0.0	26	1	1	2.2	41	4	-27	4	1	0	0	0	0.8	17	19.7	22	31	28	2	1	1.3	89
NEW YORK																																
ALBANY	84	1009.1	1019.9	17.6	6.0	11.8	1.1	27.8	15	-2.8	31	0	5	6.1	72	149	83	58	12	1	0	0	1.0	26	11.6	NW	6	6	7	18	7.1	41
BINGHAMTON	485	961.4	1020.6	15.3	6.3	10.8	0.6	23.9	15	-5.0	31	0	4	6.7	79	88	12	38	14	2	T	T	1.1	24	13.0	SW	15	4	9	18	7.3	51
BUFFALO	215	993.6	1019.5	16.4	7.0	11.7	0.9	26.1	24	-5.6	31	0	2	6.1	72	29	-48	19	9	1	T	0	2.0	23	15.2	SW	15	5	5	21	7.2	47
NEW YORK U	40	1016.6	1019.9	19.4	10.8	15.1	0.3	28.3	14	-0.6	31	0	1	9.4	72	94	22	56	9	1	0	0	1.1	1	9.4	NW	13					67
NEW YORK KENNEDY	4	1019.0	1019.7	19.6	11.5	15.6	1.5	27.8	15+	1.1	31	0	0	10.6	75	83	12	52	10	1	0	0	1.2	33	11.6	32	2	8	9	14	6.0	
NEW YORK LA GUARDIA	3	1018.6	1019.7	19.1	11.4	15.2	0.7	27.8	15+	0.6	31	0	0	8.3	66	85	10	50	9	1	0	0	1.3	35	13.4	NE	18	9	5	17	6.2	
ROCHESTER	167	999.0	1019.5	17.3	6.1	11.7	0.4	26.1	23	-5.6	31	0	5	7.2	77	46	-20	16	11	1	T	T	1.5	23	13.4	SW	15	5	4	22	7.5	45
SYRACUSE	125	1004.4	1019.6	16.4	7.1	11.8	0.4	25.6	15	-5.6	31	0	2	7.8	78	94	15	42	13	2	T	0	0.8	25	13.0	W	15	5	7	19	7.4	46
NORTH CAROLINA																																
ASHEVILLE	652	944.5	1021.0	21.1	7.1	14.1	0.3	26.7	14+	-3.3	31	0	3	10.6	84	100	18	47	6	0	0	0	0.9	36	13.0	34	30	13	9	9	4.6	61

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure: Station	Pressure: Sea level	Temperature: Average maximum	Temperature: Average minimum	Temperature: Average	Temperature: Departure from normal	Temperature: Highest	Date	Temperature: Lowest	Date	No of days: Max 32.2 °C or above	No of days: Min. 0 C or lower	Average dew point	Average relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	No of days: .25 mm or more	No of days: With thunderstorms	Snow, Ice pellets: Total	Snow, Ice pellets: Maximum depth on ground	Wind: Resultant speed	Wind: Resultant direction	Fastest mile (1.6 kilometers): Speed	Fastest mile: Direction	Fastest mile: Date	No of days (sunrise to sunset): Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
NORTH CAROLINA	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m s		m s							%
CAPE HATTERAS R	2	[illegible]	1019.4	23.4	16.0	20.2	1.7	28.9	1	8.9	31	0	0	15.1	79	103	-19	46	9	1	0	0	1.2	1	9.4	1	30	7	8	16	6.3	[illegible]
CHARLOTTE	224	992.9	1020.3	23.6	11.5	17.6	1.1	29.4	15	2.2	31	0	0	11.7	74	91	23	60	3	1	0	0	0.3	5	11.6	S	17	11	12	8	4.7	72
GREENSBORO	273	988.8	1020.4	23.2	10.1	16.7	1.6	29.4	14	-1.1	31	0	1	12.2	79	67	-8	37	4	0	0	0	0.3	31	12.1	SE	17	13	8	10	4.8	67
RALEIGH	132	1004.1	1020.0	23.4	10.2	16.8	1.1	30.0	14	0.0	31	0	1	11.1	73	31	-40	18	2	1	0	0	0.4	1	8.9	14	17	10	12	9	5.3	66
WILMINGTON	9	1016.3	1019.7	25.7	14.5	20.1	1.6	30.6	15+	3.3	31	0	0	15.6	79	80	-4	36	7	3	0	0	1.2	1	12.5	SW	17	8	7	16	6.4	57
NORTH DAKOTA																																
BISMARCK	502	953.3	1013.4	14.8	1.8	8.3	0.1	27.8	7+	-7.2	28	0	9	1.7	67	18	-2	9	7	0	T	T	1.0	28	20.6	NW	4	6	6	19	7.1	44
FARGO	273	980.4	1013.4	15.2	4.1	9.7	1.3	30.6	7+	-3.3	1	0	7	2.2	65	45	17	27	6	1	10	T	1.5	20	17.0	SE	8	9	5	17	6.5	55
WILLISTON	574	944.5	1013.6	13.1	0.7	6.9	-0.7	29.4	6	-5.0	28+	0	15	0.6	70	33	7	28	6	0	114	102	1.1	28	19.2	N	4	6	4	21	7.3	39
OHIO																																
AKRON	368	975.3	1020.2	17.6	6.7	12.2	0.3	26.7	14	-4.4	31	0	3	7.2	74	65	5	40	9	0	0	0	1.2	22	12.1	6	17	10	6	15	6.0	
CINCINNATI ABBE OB	232			20.1	8.6	14.4	0.1	30.0	13	1.7	31+	0	0			116	60	58	8			0			8.0	NE	17					57
CLEVELAND	237	990.9	1020.1	17.7	6.5	12.1	0.0	26.7	14+	-2.8	31	0	4	6.7	72	44	-21	16	9	0	0	0	1.6	21	14.8	NE	17	7	9	15	6.2	56
COLUMBUS	247	990.2	1020.3	18.7	6.5	12.6	0.3	28.3	14+	-1.7	31	0	3	6.7	71	58	10	30	10	0	0	0	0.6	19	12.1	SW	15	11	6	14	5.7	54
DAYTON	303	983.7	1020.0	19.3	7.2	13.2	0.2	30.0	13	-0.6	31	0	1	7.2	72	62	13	32	9	1	0	0	0.9	20	15.6	NE	17	12	6	13	5.6	63
MANSFIELD	395			17.5	7.0	12.3	-0.3	26.7	14	-3.9	31	0	4			56	6	40	10	0	0	0	2.0	20	10.3	1	29+	9	8	14	6.2	
TOLEDO	204	994.2	1019.6	17.8	4.3	11.1	-0.6	28.3	14+	-3.3	31	0	8	6.1	74	61	5	21	8	0	0	0	1.3	23	11.6	NE	18	12	6	13	5.3	59
YOUNGSTOWN	359	977.3	1020.2	17.1	5.7	11.4	-0.1	27.2	14	-6.1	31	0	5	6.1	72	66	-9	45	8	1	0	0	1.1	23	13.9	34	15	7	7	17	6.5	
OKLAHOMA																																
OKLAHOMA CITY	392	971.2	1017.6	24.7	10.0	17.4	0.6	32.2	11	1.1	26	1	0	8.3	[illegible]	21	-44	21	2	1	0	0	2.0	16	11.6	SW	12+	19	8	4	2.8	86
TULSA	194	993.6	1017.1	24.9	9.7	17.3	0.2	34.4	11	1.1	26+	2	0	9.4	64	37	-44	30	3	1	0	0	2.3	18	15.2	SE	6	19	8	4	3.0	72
OREGON																																
ASTORIA	[illegible]	1014.2	1015.1	13.6	7.4	10.5	-1.1	16.7	11	3.3	22	0	0	7.2	80	319	146	48	24	0	T	0	2.2	16	13.0	18	3	1	5	25	8.9	
BURNS	1265			14.0	0.2	7.4	-1.1	27.8	2+	-8.3	28	0	15			34	12	13	11		112	51			20.6Y	S	9	4	9	18	7.3	
EUGENE	109	1002.7	1016.5	16.9	8.7	12.8	1.0	28.9	1	3.3	31	0	0	10.0	84	145	43	29	19	1	0	0	2.5	18	10.3	18	26+	1	2	28	9.1	
MEDFORD	396	969.9	1018.0	17.1	4.5	10.8	-1.1	32.2	1	-1.1	31	1	4	4.4	71	56	4	17	14	0	0	0	0.1	28	11.6	14	29	2	6	23	8.3	
PENDLETON	452	961.7	1015.3	17.6	7.1	12.4	0.9	32.2	1	-0.6	24	1	1	1.1	51	46	18	19	11	0	0	0	1.7	24	13.9	27	17+	2	8	21	7.9	
PORTLAND	[illegible]	1014.6	1015.7	15.6	8.3	11.9	-0.2	30.0	1	2.2	31	0	0	7.8	80	121	30	23	21	1	0	0	1.9	17	12.1	SW	27	2	1	28	8.9	22
SALEM	[illegible]	1008.5	1016.0	15.3	6.4	10.9	-0.9	27.8	1	1.1	31+	0	0	7.8	84	140	39	25	23	0	0	0	2.1	19	13.0	18	25	1	4	26	8.9	
SEXTON SUMMIT R	1163	883.8	1016.7	11.1	3.8	7.4	-2.8	28.3	1	-1.7	23	0	7			127	35	29	15		236	178	2.7	20	13.4	21	25	5	4	22	8.2	
PACIFIC AREA																																
GUAM TAGUAC R	[illegible]			29.6	22.3	26.0	-0.1	30.6	26+	20.6	26+	0	0			271	-94	57	27		0	0			8.9	SE	13+	1	5	25	8.6	51
JOHNSTON	2	1013.5	[illegible]	28.4	24.5	26.5	-0.5	28.9	29+	22.8	18+	0	0	21.7	75	36	-52	12	15	0	0	0	7.7	9	18.3	E	27	8	10	13	6.1	79
KOROR R	29	1005.1		31.2	24.2	27.7	-0.1	32.8	13+	22.8	12	7	0			293	-27	76	21	1	0	0	0.8	16	9.4	NW	7	0	7	24	8.7	46
KWAJALEIN	[illegible]			29.3	24.3	26.8	-1.2	30.6	13	22.2	21	0	0			397	93	67	30	3	0	0			14.8	11	10	0	1	30	9.3	
MAJURO	3	1009.5		28.7	23.3	26.0	-1.4	30.0	23+	21.7	20	0	0			465	58	82	30		0	0	3.0	10	11.6	E	20+	0	4	27	9.4	28
PAGO PAGO	4	1012.7	1012.5	30.0	24.6	27.3	0.9	31.7	29	20.6	14	0	0	22.8	77	53	-254	11	21	0	0	0	5.8	9	13.0	NE	1	2	16	13	6.9	64
PONAPE R	37			30.6	22.3	26.4	-0.3	32.2	24+	21.1	11+	6	0			565	148	68	30	1	0	0			8.5	NE	1	0	8	23	8.5	28
TRUK MOEN ISLAND	2	1008.8		30.5	23.9	27.2	-0.1	31.7	24+	22.2	29+	0	0			311	-29	82	25	1	0	0	1.7	10	11.2	N	6	0	2	29	9.6	43
WAKE	3	1013.7	1013.5	31.0	24.3	27.7	0.1	31.7	26+	21.1	2	0	0	23.3	79	88	-50	35	16	3	0	0	5.3	9	16.5	NE	14	10	9	12	5.9	62
YAP R	[illegible]	1006.8		[illegible]	23.4	27.0	-0.4	31.7	3	22.2	27+	0	0			322	6	69	24	3	0	0	1.1	12	9.8	SE	16	1	7	23	8.4	66
PENNSYLVANIA																																
ALLENTOWN	118	1006.1	1020.1	19.0	8.7	13.8	1.6	30.0	14	-2.2	31	0	2	7.2	68	123	54	60	9	1	0	0	0.8	32	11.2	26	15	9	6	16	6.6	
ERIE	223	992.9	1020.6	16.4	6.6	11.5	0.6	24.4	24	-4.4	31	0	3	7.2	77	61	-21	16	8	1	0	0	1.9	22	10.7	7	18+	5	10	16	6.8	
HARRISBURG	103	1008.1	1020.8	19.2	9.3	14.3	1.1	29.4	14	-0.6	31	0	1	10.0	78	67	1	41	12	0	0	0	0.7	32	11.6	N	15+	7	9	15	6.5	51
PHILADELPHIA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16.2	2.1	31.1	14	-0.6	31	0	1	10.6	72	82	18	34	8	1	0	0	0.9	34	12.5	NW	30	8	6	17	6.7	52
PITTSBURGH	347	976.3	1020.7	17.3	6.4	11.8	0.1	26.7	14	-5.6	31	0	3	3.9	61	88	24	46	11	0	0	0	1.1	26	10.3	33	15	9	7	15	6.5	45
SCRANTON	283	965.8	1020.1	17.9	8.5	13.2	1.8	27.8	14	-3.3	31	0	2	7.2	70	84	15	36	10	1	0	0	0.6	28	10.3	N	30+	9	4	18	6.6	49
WILLIAMSPORT	[illegible]	[illegible]	1020.3	18.0	6.9	12.4	0.6	28.9	14	-3.9	31	0	3	7.2	75	76	-6	52	12	0	0	0	0.8	30	9.4	35	30+	8	6	17	6.8	
RHODE ISLAND																																
BLOCK ISLAND	34																	42				0										
PROVIDENCE	16	1016.9	1019.3	18.4	7.4	12.9	0.9	27.8	15	-2.2	31	0	1	7.2	72	118	35	34	12	[illegible]	T	0	1.2	33	11.6	15	25	8	10	13	6.0	61
SOUTH CAROLINA																																
CHARLESTON	[illegible]	[illegible]	1019.7	26.4	14.7	20.6	1.6	30.0	12+	4.4	31	0	0	15.0	74	50	-27	45	4	1	0	0	1.3	2	13.0	18	17	12	6	13	5.4	68

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure		Temperature											Average relative humidity	Precipitation							Wind					No. of days (sunrise to sunset)			Sky cover, tenths (sunrise to sunset)	Possible sunshine
												No of days							No. of days		Snow, Ice pellets				Fastest mile (1.6 kilometers)							
		Station ⊙	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min. 0 °C or lower	Average dew point		Total	Departure from normal	Greatest in 24 hours	.25 mm or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10		
SOUTH CAROLINA	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
CHARLESTON U	3			25.3	17.3	21.3	1.3	30.0	9	8.3	31	0	0			41	-36	33	4		0	0										
COLUMBIA	65	1011.9	1019.9	26.9	12.1	19.6	1.7	31.1	16+	2.2	31	0	0	12.8	72	22	-43	15	3	1	0	0	0.7	2	8.9	19	17	9	14	8	4.8	74
GRNVLLE-SPRTNBRG	292	985.4	1020.1	23.3	10.7	17.0	0.5	28.3	15+	0.6	31	0	0	11.7	77	189	108	100	7	0	0	0	0.6	36	9.8	S	17	18	3	10	4.0	71
SOUTH DAKOTA																																
ABERDEEN	395	966.1	1013.3	18.2	3.9	11.1	2.2	33.9	4	-3.3	1	1	5	2.8	63	31	0	24	4	1	48	25	0.7	22	13.4	15	8	11	7	13	5.9	
HURON	390	966.8	1013.5	18.7	2.2	10.4	0.7	33.3	4	-3.3	29+	1	9	2.2	63	21	-18	14	4	1	T	T	1.0	20	14.8	SW	8	11	8	12	5.4	69
RAPID CITY	964	903.5	1014.6	17.6	1.5	9.6	-0.4	32.8	6	-8.3	25	1	13	-2.2	50	18	-4	14	4	0	117	76	1.7	33	17.9	NW	4	10	8	13	5.5	69
SIOUX FALLS	432	963.4	1015.0	19.2	3.1	11.2	1.1	30.0	13	-5.6	29	0	9	2.2	59	12	-26	11	3	2	T	0	1.7	21	15.6	27	8	14	7	10	4.7	
TENNESSEE																																
BRISTOL	459	966.5	1020.7	21.4	8.6	15.0	0.6	27.2	24+	-1.1	31	0	1	10.0	76	39	-18	16	10	1	0	0	0.3	31	9.8	24	17	11	9	11	5.5	
CHATTANOOGA	203	995.3	1020.1	21.8	10.1	15.9	-0.1	28.9	13+	0.0	31	0	1	12.2	84	160	85	77	10	1	0	0	0.4	36	9.4	3	30+	13	6	12	5.5	51
KNOXVILLE	299	985.8	1020.9	21.2	9.9	15.6	-0.4	27.8	13	1.7	31	0	0	11.7	83	102	34	28	8	2	0	0	0.7	34	9.4	6	30+	10	5	16	5.8	57
MEMPHIS	79	1009.5	1019.7	24.7	12.8	18.8	1.6	33.3	12	3.9	31	2	0	11.1	65	68	3	42	6	3	0	0	0.4	15	10.3	3	17	15	5	11	4.5	74
NASHVILLE	180	998.3	1020.0	22.6	11.2	16.9	0.8	29.4	14+	2.8	31	0	0	12.2	78	149	94	95	9	2	0	0	0.4	18	8.9	34	17+	11	5	15	5.7	54
OAK RIDGE R	276			20.8	8.6	14.7	-0.3	27.8	15+	-1.1	31	0	1			141	72	55	9		0	0			12.1Y		17	9	6	16	6.5	
TEXAS																																
ABILENE	544	954.3	1016.7	25.7	11.6	18.7	-0.3	33.3	9	3.9	18+	4	0	8.3	56	21	-45	11	2	1	0	0	2.7	18	16.1	S	31	22	5	4	2.7	80
AMARILLO	1098	892.0	1014.5	25.2	7.1	16.2	0.9	32.8	12	-1.7	25	2	1	0.0	38	8	-38	8	1	1	0	0	3.2	21	13.4	20	22+	24	6	1	1.3	98
AUSTIN	182	995.6	1017.5	27.5	14.7	21.1	-0.1	32.8	10	8.3	19+	3	0	12.8	65	65	-12	54	3	2	0	0	0.5	12	12.1	N	25	16	9	6	3.6	71
BROWNSVILLE	6	1015.9	1016.3	29.6	17.9	23.8	-0.5	31.7	28+	11.1	19	0	0	18.3	75	13	-71	12	3	0	0	0	1.5	11	13.4	SE	22	18	11	2	3.8	76
CORPUS CHRISTI	12	1015.2	1016.9	29.7	17.4	23.6	0.3	33.3	9	9.4	19	5	0	17.8	74	51	-19	34	5	0	0	0	2.2	10	13.4	N	25	15	11	5	3.7	78
DALLAS - FORT WORTH	168	996.6	1017.9	27.7	14.3	21.0	1.2	35.0	11+	6.7	19	5	0	10.6	55	T	-68	T	0	0	0	0	1.7	18	10.3	19	8+	19	5	7	3.5	
DEL RIO	313	980.0	1015.9	28.3	14.7	21.6	-0.2	32.8	10+	8.3	3	7	0	12.8	63	35	-18	21	5	0	0	0	2.8	11	9.4	13	31+	14	10	7	4.0	
EL PASO	1194	883.2	1014.2	27.7	7.9	17.8	0.0	33.9	12	3.3	28+	3	0	1.7	37	6	-13	6	2	1	0	0	0.8	20	12.1	25	21	25	4	2	1.2	96
GALVESTON	2			25.3	20.1	22.7	-0.1	28.9	1	13.3	26	0	0			123	51	100	5		0	0			14.3	NE	25					69
HOUSTON INTERCON	29	1014.2	1017.9	28.4	13.2	20.8	-0.8	33.9	10	5.0	19+	5	0	15.0	76	143	40	95	7	4	0	0	1.3	8	9.4	13	22+	14	8	9	4.4	62
LUBBOCK	992	905.2	1015.6	26.1	7.8	16.9	0.8	31.7	13+	1.1	30+	0	0	4.4	48	2	-51	1	2	1	0	0	2.2	18	13.0	4	15	26	4	1	1.3	92
MIDLAND	869	917.7	1015.4	26.1	10.4	18.3	-0.5	31.7	13+	3.9	26	0	0	7.8	57	18	-17	14	2	3	0	0	2.3	16	12.5	17	31+	25	3	3	1.8	
PORT ARTHUR	5	1017.6		27.3	15.2	21.3	0.2	31.1	10+	7.8	4	0	0	16.7	82	119	25	82	5	1	0	0	1.3	8	11.2	N	25	11	12	8	4.6	57
SAN ANGELO	580	950.2	1016.6	25.2	11.7	18.5	-1.1	31.7	9+	4.4	3+	0	0	10.0	64	86	38	43	4	2	0	0	2.4	19	13.4	20	31	21	4	6	3.3	
SAN ANTONIO	240	989.5	1017.3	28.6	14.9	21.7	0.3	32.2	14+	5.6	19	4	0	12.8	62	57	-15	56	4	0	0	0	1.1	12	11.2	N	25	14	13	4	3.9	77
VICTORIA	32	1013.2	1017.4	29.2	15.5	22.4	0.1	33.9	9	8.3	4	4	0	16.1	75	99	6	57	5	1	0	0	1.4	8	14.3Y	NE	25	16	8	7	4.0	
WACO	153	999.7	1017.7	28.6	14.2	21.4	0.8	35.6	10	6.1	19+	7	0	12.8	63	61	-4	28	3	2	0	0	1.6	15	10.3	31	17	19	4	8	3.7	
WICHITA FALLS	303	980.7	1017.1	26.7	10.7	18.7	-0.2	33.9	10	3.9	26+	6	0	10.0	62	21	-47	18	2	2	0	0	1.9	16	11.2	19	31+	21	7	3	2.4	
UTAH																																
MILFORD	1533	847.3	1017.1	19.6	-2.1	8.8	-1.6	28.3	5	-12.8	25	0	23			9	-11	3	8		15	T			20.1	NW	7	14	10	7	4.0	77
SALT LAKE CITY	1286	872.7	1016.6	18.8	4.9	11.9	0.6	30.0	6	-3.3	25	0	4	0.0	54	49	19	17	6	3	T	T	1.6	17	16.5	S	7	10	10	11	5.7	64
WENDOVER	1291	871.7	1017.0	16.7	4.6	10.6	-0.9	28.9	4	-2.8	24	0	5	-1.1	50	38	26	20	7		10	T										
VERMONT																																
BURLINGTON	101	1006.8	1019.5	14.7	5.7	10.2	0.9	22.8	1	-1.7	31	0	4	5.6	73	98	28	27	13	0	T	0	0.4	20	13.9	N	6	8	3	20	7.1	44
VIRGINIA																																
LYNCHBURG	279	986.5		21.4	8.7	15.1	0.7	28.3	14	-2.2	31	0	1			62	-4	45	8		0	0			9.4	S	17	12	10	9	4.8	63
NORFOLK	7	1019.0	1019.9	22.1	12.8	17.4	0.9	30.0	14	2.8	31	0	0	13.3	79	81	3	27	9	0	0	0	1.0	36	10.3	36	30+	9	4	18	6.3	51
RICHMOND	50	1013.5	1020.1	23.5	10.4	16.9	1.8	30.6	14	-1.1	31	0	1	12.2	77	79	4	48	7	1	0	0	0.5	33	8.5	N	30	8	6	17	6.3	51
ROANOKE	350	978.3	1020.4	22.2	8.9	15.6	1.2	29.4	14	-2.2	31	0	1	8.9	68	76	-5	54	7	1	0	0	0.9	30	10.3	30	2	11	10	10	4.9	
WALLOPS ISLAND	3			21.4	12.6	17.0	1.3	29.4	15	0.0	31	0	1			133	61	60	14		0	0			17.9Y	NW	11					
WASHINGTON																																
OLYMPIA	59	1006.8	1014.2	13.8	5.2	9.5	-0.8	28.3	1	-2.8	23	0	3	7.2	86	213	79	24	21	0	T	0	2.6	20	11.2	18	3	1	3	27	9.0	
QUILLAYUTE	55	1005.4	1013.0	12.9	6.1	9.5	-0.9	19.4	11	-1.1	23	0	1	8.3	91	690	396	141	27	2	0	0	1.9	17	13.4	SE	29	1	3	27	8.8	12
SEATTLE U	6			14.2	8.9	11.5	-0.8	25.6	1	3.3	24	0	0			204	117	38	21	0	0	0			16.5Y		25					
SEATTLE-TACOMA	122	998.3	1014.7	13.9	7.7	10.8	-0.4	27.2	1	1.7	24	0	0	7.9	83	197	98	38	19	0	0	0	2.5	17	11.2	SW	25	1	3	27	8.9	39
SPOKANE	718	930.2	1014.5	12.8	3.7	8.3	-0.5	28.3	2	-3.9	24+	0	6	2.8	74	57	21	18	14	1	99	T	2.5	19	13.0	SW	19	2	5	24	8.2	34
STAMPEDE PASS R	1206	877.1		5.3	1.1	3.2	-2.2	19.4	1	-3.9	24	0	11			328	103	43	25		1110	838										
WALLA WALLA U	289			16.9	8.0	12.5	0.1	27.8	1	0.0	24	0	1			43	5	19	12		0	0			10.7	SE	25	1	12	18	7.7	37
YAKIMA	321	976.0	1014.8	16.4	2.8	9.7	-0.4	27.2	1	-3.9	24	0	12	2.8	67	20	5	9	10	1	0	0	1.3	27	13.0	22	5	2	9	20	7.8	

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure: Station	Pressure: Sea level	Temperature: Average maximum	Temperature: Average minimum	Temperature: Average	Temperature: Departure from normal	Temperature: Highest	Temperature: Date	Temperature: Lowest	Temperature: Date	No of days: Max 32.2 °C or above	No of days: Min 0 °C or lower	Average dew point	Average relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	No. of days: 25 mm or more	No. of days: With thunderstorms	Snow Ice pellets: Total	Snow Ice pellets: Maximum depth on ground	Wind: Resultant speed	Wind: Resultant direction	Fastest mile (1.6 kilometers): Speed	Fastest mile: Direction	Fastest mile: Date	No of days (sunrise to sunset): Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
WEST INDIES																																
SAN JUAN P.R.	4	1011.9	1014.2	30.3	24.7	27.6	0.6	32.2	17	23.3	17+	1	0	21.7	73	169	24	39	26	5	0	0	3.2	9	12.5	SE	25+	0	21	10	6.7	32
WEST VIRGINIA																																
BECKLEY	763	932.6	1020.9	18.7	7.4	13.1	1.4	24.4	23+	-3.9	31+	0	4	7.8	74	70	7	36	10	2	0	0	1.3	20	10.7	12	17	7	6	18	6.5	
CHARLESTON	286	986.5	1020.8	20.6	7.7	14.2	0.3	28.3	24+	-2.8	31	0	1	8.9	75	78	16	36	11	1	0	0	0.5	24	7.2	24	15	10	6	15	6.1	
ELKINS	594	949.9		19.7	4.4	12.1	1.2	26.7	14	-7.2	31	0	5			63	-6	21	13		0	0						6	9	16	5.7	
HUNTINGTON	252	990.2	1020.3	20.2	8.7	14.4	0.5	28.3	14	-1.7	31	0	2	9.9	73	88	35	38	12	1	0	0	0.5	24	7.6	9	17+	8	6	17	6.9	
PARKERSBURG J	187			19.2	7.5	13.3	-0.6	28.3	24+	-1.7	31	0	2			105	51	38	11		0	0			8.5	N	29					52
WISCONSIN																																
GREEN BAY	209	991.5	1017.3	16.3	3.5	9.9	0.4	27.8	13	-4.4	29	0	8	3.9	69	9	-40	4	4	1	0	0	1.8	22	13.9	SW	25	10	9	12	5.7	58
LA CROSSE	198	993.2	1017.8	18.6	4.7	11.7	0.7	30.0	13	-3.9	30+	0	7	5.0	66	9	-43		3	3	0		1.7	19								
MADISON	262	986.1	1017.9	19.5	2.9	11.2	1.3	32.2	13	-5.0	29	1	10	4.4	67	16	-39	9	3	2	0	0	1.9	21	13.4	SW	24	13	6	12	4.8	67
MILWAUKEE	205	992.9	1018.3	17.9	6.6	12.3	1.7	31.1	13	-2.8	30	0	2	5.6	66	18	-32	17	3	2	0	0	1.9	22	15.2	SW	24+	12	6	13	5.4	62
WYOMING																																
CASPER	1627	836.4	1014.4	16.8	0.6	8.7	-0.1	28.9	6	-8.9	25	0	16	-3.9	50	26	2	14	8	0	300	152	4.3	24	15.6	21	25+	9	12	10	5.6	
CHEYENNE	1867	811.4	1014.3	16.7	1.1	8.9	0.1	25.6	6+	-12.8	25	0	12	-6.7	39	12	-12	12	3	0	140	127	2.6	27	20.6	W	8	8	14	9	5.1	74
LANDER	1696	828.3	1014.4	16.0	0.3	8.2	-0.1	28.3	6	-12.8	25	0	13	-4.4	48	35	3	17	6	0	404	229	1.0	22	17.9	SW	7	8	12	11	5.5	69
SHERIDAN	[illegible]	917.1	1014.7	15.8	0.1	7.9	-0.8	29.4	3+	-12.8	25+	0	15	-1.1	58	38	12	16	13	0	216	152	1.3	30	14.8	NW	4	10	5	16	6.2	53

HEATING DEGREE DAYS

(Base 65°F.)

OCTOBER 1975

State and station	Current season: This month	Current season: Period July through this month	Normals: July through this month
ALABAMA			
BIRMINGHAM	105	154	143
HUNTSVILLE	126	191	170
MOBILE	11	20	39
MONTGOMERY	31	50	93
ALASKA			
ANCHORAGE	937	1844	1945
ANNETTE	584	1459	1333
BARROW	1852	4859	4246
BARTER ISLAND	1711	4548	4093
BETHEL	1078	2315	2392
BETTLES	1454	2715	2782
BIG DELTA	1334	2405	2379
COLD BAY	790	2166	2205
FAIRBANKS	1270	2143	2304
GULKANA	1117	2280	2446
HOMER	864	2121	2181
JUNEAU	712	1732	1813
KING SALMON	1004	2188	2177
KODIAK	782	2109	1854
KUTZEBLE	1382	3082	2818
MC GRATH	1280	2455	2443
NOME	1222	2930	2771
ST. PAUL ISLAND	886	2748	2602
SUMMIT	1299	2928	2935
TALKEETNA	1044	2097	2129
UNALAKLEET	1176	2414	2561
VALDEZ	854	2011	2174
YAKUTAT	778	1987	1986
ARIZONA			
FLAGSTAFF	560	862	934
PHOENIX	15	15	17
TUCSON	38	38	29
WINSLOW	310	338	271
YUMA	7	7	0
ARKANSAS			
FORT SMITH	141	203	135
LITTLE ROCK	130	178	148
CALIFORNIA			
BAKERSFIELD	73	73	55
BISHOP	330	331	305
BLUE CANYON	521	707	534
EUREKA U	328	1148	1099
FRESNO	154	154	90
LONG BEACH	28	28	55
LOS ANGELES	31	31	134
LOS ANGELES U	31	31	40
MT SHASTA R	520	694	668
OAKLAND	176	430	348
RED BLUFF	168	168	82
SACRAMENTO	72	72	106
SANDBERG R	333	358	262
SAN DIEGO	19	19	65
SAN FRANCISCO	188	492	380
SAN FRANCISCO U	164	696	608
SANTA MARIA	215	477	467
STOCKTON	140	141	88
COLORADO			
ALAMOSA	695	1142	1093
COLORADO SPRINGS	391	601	633
DENVER	363	562	528
GRAND JUNCTION	358	393	384
PUEBLO	320	439	390
CONNECTICUT			
BRIDGEPORT	190	249	303
HARTFORD	292	424	502
DELAWARE			
WILMINGTON	177	233	286
DIST.OF COLUMBIA			
WASHINGTON DULLES	247	330	334
WASHINGTON NATIONAL	102	122	204
FLORIDA			
APPALACHICOLA U	7	10	22
DAYTONA BEACH	0	0	0
FORT MYERS	0	0	0
JACKSONVILLE	11	11	19
KEY WEST	0	0	0
LAKELAND U	0	0	0
MIAMI	0	0	0
ORLANDO	0	0	0
PENSACOLA	9	21	32
TALLAHASSEE	22	27	31
TAMPA	0	0	0
WEST PALM BEACH	0	0	0
GEORGIA			
ATHENS	85	99	138
ATLANTA	113	141	145
AUGUSTA	62	64	104
COLUMBUS	61	81	81
MACON	57	67	87
ROME	117	149	185
SAVANNAH	25	25	60

State and station	Current season: This month	Current season: Period July through this month	Normals: July through this month
IDAHO			
BOISE	399	500	545
LEWISTON	417	483	550
POCATELLO	521	740	727
ILLINOIS			
CAIRO U	146	214	168
CHICAGO O HARE	303	451	475
CHICAGO MIDWAY	279	436	381
MOLINE	297	468	434
PEORIA	306	491	405
ROCKFORD	376	613	513
SPRINGFIELD	253	388	338
INDIANA			
EVANSVILLE	223	298	270
FORT WAYNE	346	531	465
INDIANAPOLIS	288	433	370
SOUTH BEND	300	489	496
IOWA			
BURLINGTON	292	449	398
DES MOINES	267	415	457
DUBUQUE	393	662	594
SIOUX CITY	328	533	501
WATERLOO	411	695	596
KANSAS			
CONCORDIA	208	343	348
DODGE CITY	190	282	288
GOODLAND	290	423	495
TOPEKA	230	369	314
WICHITA	201	299	243
KENTUCKY			
COVINGTON	244	391	315
LEXINGTON	249	377	286
LOUISVILLE	205	278	276
LOUISIANA			
ALEXANDRIA	51	63	92
BATON ROUGE	24	30	54
LAKE CHARLES	19	19	36
NEW ORLEANS	16	22	40
SHREVEPORT	39	43	70
MAINE			
CARIBOU	700	1122	1190
PORTLAND	480	782	775
MARYLAND			
BALTIMORE	156	206	277
MASSACHUSETTS			
BLUE HILL OBS R	327	517	497
BOSTON	239	317	385
WORCHESTER	413	685	593
MICHIGAN			
ALPENA	488	937	999
DETROIT	296	406	433
DETROIT METRO	375	557	493
FLINT	355	590	630
GRAND RAPIDS	382	645	558
HOUGHTON LAKE	472	917	940
LANSING	402	692	591
MARQUETTE U	455	866	879
MUSKEGON	364	634	610
SAULT STE MARIE	537	1044	1095
MINNESOTA			
DULUTH	561	1154	1100
INTERNATIONAL FALLS	622	1207	1209
MINNEAPOLIS	387	640	677
ROCHESTER	380	679	726
ST CLOUD	524	882	822
MISSISSIPPI			
JACKSON	59	85	91
MERIDIAN	108	130	111
MISSOURI			
COLUMBIA REGIONAL	254	405	289
KANSAS CITY	226	368	277
ST JOSEPH	235	369	319
ST LOUIS	228	340	259
SPRINGFIELD	245	397	268
MONTANA			
BILLINGS	536	753	733
GLASCOW	613	946	885
GREAT FALLS	592	899	844
HAVRE	597	910	892
HELENA	666	1121	1005
KALISPELL	654	1108	1256
MILES CITY	546	777	750
MISSOULA	657	1045	1059

State and station	Current season: This month	Current season: Period July through this month	Normals: July through this month
NEBRASKA			
GRAND ISLAND	296	474	475
LINCOLN	269	437	412
NORFORK	326	535	537
NORTH PLATTE	437	671	595
OMAHA	251	392	378
SCOTTSBLUFF	434	638	627
VALENTINE	435	676	642
NEVADA			
ELKO	570	835	896
ELY	617	934	939
LAS VEGAS	73	73	74
RENO	477	619	691
WINNEMUCCA	474	597	765
NEW HAMPSHIRE			
CONCORD	532	880	730
MT WASHINGTON OBS	1009	2717	2813
NEW JERSEY			
ATLANTIC CITY	251	361	297
ATLANTIC CITY U	188	237	222
NEWARK	195	255	277
TRENTON U	194	265	291
NEW MEXICO			
ALBUQUERQUE	256	303	225
CLAYTON	270	428	397
ROSWELL	104	152	212
NEW YORK			
ALBANY	357	549	588
BINGHAMTON	415	704	689
BUFFALO	368	583	602
NEW YORK U	193	258	238
NEW YORK KENNEDY	171	234	289
NEW YORK LA GUARDIA	188	248	254
ROCHESTER	365	577	559
SYRACUSE	357	622	541
NORTH CAROLINA			
ASHEVILLE	232	309	319
CAPE HATTERAS R	32	32	76
CHARLOTTE	103	116	162
GREENSBORO	121	152	233
RALEIGH	117	134	198
WILMINGTON	40	40	80
NORTH DAKOTA			
BISMARCK	550	893	869
FARGO	492	812	838
WILLISTON	632	992	929
OHIO			
AKRON	344	530	495
CINCINNATI ABBE OB	237	329	282
CLEVELAND	345	541	475
COLUMBUS	321	431	426
DAYTON U	292	424	377
MANSFIELD	343	537	421
TOLEDO	406	646	501
YOUNGSTOWN	389	594	533
OKLAHOMA			
OKLAHOMA CITY	126	190	160
TULSA	146	203	153
OREGON			
ASTORIA	429	900	893
BURNS U	599	868	873
EUGENE	302	416	577
MEDFORD	416	466	481
PENDLETON	332	387	500
PORTLAND	354	467	570
SALEM	409	609	582
SEXTON SUMMIT R	610	956	841
PENNSYLVANIA			
ALLENTOWN	257	386	435
ERIE	381	595	623
HARRISBURG	232	319	344
PHILADELPHIA	152	197	287
PITTSBURGH	362	554	493
PITTSBURGH U	288	409	362
SCRANTON	291	457	532
WILLIAMSPORT	324	502	479
RHODE ISLAND			
BLOCK ISLAND			
PROVIDENCE	298	443	453
SOUTH CAROLINA			
CHARLESTON	40	40	74
CHARLESTON U	23	23	50
COLUMBIA	56	56	112
GRNVLLE-SPRTNBRG	118	142	154
SOUTH DAKOTA			
ABERDEEN	411	627	765
HURON	447	690	673
RAPID CITY	493	718	695
SIOUX FALLS	407	686	658

State and station	Current season: This month	Current season: Period July through this month	Normals: July through this month
TENNESSEE			
BRISTOL	188	234	286
CHATTANOOGA	152	205	191
KNOXVILLE	172	214	185
MEMPHIS	90	130	149
NASHVILLE	138	206	190
OAK RIDGE	203	282	236
TEXAS			
ABILENE	97	152	89
AMARILLO	158	262	226
AUSTIN	27	28	39
BROWNSVILLE	5	5	5
CORPUS CHRISTI	4	4	7
DALLAS FT WORTH	33	37	60
DEL RIO	16	16	34
EL PASO	60	86	92
GALVESTON	4	4	12
HOUSTON INTERCON	26	26	24
LUBBOCK	122	198	170
MIDLAND	82	122	81
PORT ARTHUR	16	16	35
SAN ANGELO	75	107	73
SAN ANTONIO	21	22	32
VICTORIA	6	6	15
WACO	27	29	51
WICHITA FALLS	87	139	92
UTAH			
MILFORD	527	634	570
SALT LAKE CITY	365	428	512
WENDOVER	437	470	470
VERMONT			
BURLINGTON	448	701	762
VIRGINIA			
LYNCHBURG	185	245	267
NORFORK	98	104	150
RICHMOND	121	148	224
ROANOKE	173	232	267
WALLOPS ISLAND	116	129	190
WASHINGTON			
OLYMPIA	486	907	836
QUILLAYUTE	486	1108	1078
SEATTLE	374	576	604
SEATTLE-TACOMA	413	602	729
SPOKANE	554	787	797
STAMPEDE PASS R	838	1877	1710
WALLA WALLA U	321	387	419
YAKIMA	477	614	666
WEST VIRGINIA			
BECKLEY	289	437	526
CHARLESTON	227	333	313
ELKINS	341	510	615
HUNTINGTON	228	319	311
PARKERSBURG U	286	404	314
WISCONSIN			
GREEN BAY	465	828	757
LA CROSSE	384	642	578
MADISON	412	677	700
MILWAUKEE	353	577	631
WYOMING			
CASPER	532	798	795
CHEYENNE	515	839	808
LANDER	561	818	812
SHERIDAN	575	865	837

COOLING DEGREE DAYS

(Base 65°F.)

State and station	Current season		Normals January through this month
	This month	Period January through this month	
ALABAMA			
BIRMINGHAM	66	1827	1928
HUNTSVILLE	53	1557	1808
MOBILE	183	2636	2551
MONTGOMERY	163	2269	2237
ALASKA			
ANCHORAGE		2	0
ANNETTE	[illegible]	8	14
BARROW	0	0	0
BARTER ISLAND	0	[illegible]	0
BETHEL	0	1	0
BETTLES	0	59	17
BIG DELTA	0	21	34
COLD BAY		0	0
FAIRBANKS		75	52
GULKANA	0	22	9
HOMER	0	0	0
JUNEAU	0	7	0
KING SALMON	0	0	0
KODIAK	0	0	0
KOTZEBUE	[illegible]	0	0
MC GRATH	0	18	14
NOME		1	0
ST. PAUL ISLAND	0	0	0
SUMMIT	0	0	0
TALKEETNA	0	10	6
UNALAKLEET	0	4	0
VALDEZ	0	0	0
YAKUTAT	0	0	0
ARIZONA			
FLAGSTAFF	0	88	140
PHOENIX	255	3739	3482
TUCSON	[illegible]	2565	2788
WINSLOW	3	1046	1203
YUMA	165	3717	4126
ARKANSAS			
FORT SMITH	67	1692	2022
LITTLE ROCK	73	1925	1925
CALIFORNIA			
BAKERSFIELD	[illegible]	2648	2173
BISHOP	5	1048	1037
BLUE CANYON	3	374	302
EUREKA U	0	0	[illegible]
FRESNO	49	1602	1571
LONG BEACH	9	953	962
LOS ANGELES	51	477	592
LOS ANGELES	82	[illegible]	1141
MT SHASTA R	[illegible]	271	286
OAKLAND	2	[illegible]	128
RED BLUFF	55	1843	1904
SACRAMENTO	81	1654	1159
SANDBERG R	38	759	800
SAN DIEGO	54	540	708
SAN FRANCISCO	2	60	108
SAN FRANCISCO U	5	55	39
SANTA MARIA	9	33	84
STOCKTON	35	1376	1259
COLORADO			
ALAMOSA	0	28	88
COLORADO SPRINGS	6	480	461
DENVER	5	554	625
GRAND JUNCTION	9	1004	1140
PUEBLO	3	1008	981
CONNECTICUT			
BRIDGEPORT	11	[illegible]	735
HARTFORD	7	864	584
DELAWARE			
WILMINGTON	27	1096	992
DIST.OF COLUMBIA			
WASHINGTON DULLES	10	1001	940
WASHINGTON NATIONAL	59	1639	1415
FLORIDA			
APPALACHICOLA	227	2515	2608
DAYTONA BEACH	325	3047	2774
FORT MYERS	439	3955	3429
JACKSONVILLE	238	2683	2530
KEY WEST	508	4783	4365
LAKELAND U	348	3373	3109
MIAMI	448	4135	3650
ORLANDO	366	3402	[illegible]
PENSACOLA	194	2737	2659
TALLAHASSEE	189	2512	2532
TAMPA	407	3774	3177
WEST PALM BEACH	397	3629	3450
GEORGIA			
ATHENS	88	1813	1722
ATLANTA	63	1579	1589
AUGUSTA	122	1939	1996
COLUMBUS	[illegible]	2149	2137
MACON	113	[illegible]	2284
ROME	[illegible]	1658	1615
SAVANNAH	187	2507	2295
HAWAII			
HILO	309	2649	2606
HONOLULU	[illegible]	3537	3606
KAHULUI	350	2925	3187
LIHUE	[illegible]	3284	3180
IDAHO			
BOISE	11	[illegible]	714
LEWISTON	5	[illegible]	[illegible]
POCATELLO	4	[illegible]	437
ILLINOIS			
CAIRO U	88	1906	1806
CHICAGO O HARE	24	1039	664
CHICAGO MIDWAY	25	1120	925
MOLINE	29	[illegible]	[illegible]
PEORIA	14	998	968
ROCKFORD	15	844	714
SPRINGFIELD	36	1200	1116
INDIANA			
EVANSVILLE	29	1495	1364
FORT WAYNE	9	832	748
INDIANAPOLIS	14	1046	974
SOUTH BEND	25	852	695
IOWA			
BURLINGTON	23	[illegible]	994
DES MOINES	32	1237	928
DUBUQUE	12	692	606
SIOUX CITY	28	1013	932
WATERLOO	21	909	675
KANSAS			
CONCORDIA	49	[illegible]	1302
DODGE CITY	59	1505	1411
GOODLAND	15	[illegible]	925
TOPEKA	61	1471	1361
WICHITA	63	1512	1673
KENTUCKY			
COVINGTON	19	1156	1080
LEXINGTON	18	1261	1197
LOUISVILLE	35	1501	1268
LOUISIANA			
ALEXANDRIA	117	2482	2186
BATON ROUGE	156	2508	2503
LAKE CHARLES	166	2518	2699
NEW ORLEANS	171	2507	2663
SHREVEPORT	141	[illegible]	2524
MAINE			
CARIBOU		[illegible]	128
PORTLAND		351	252
MARYLAND			
BALTIMORE	27	1235	1108
MASSACHUSETTS			
BLUE HILL OBS R	5	565	457
BOSTON	9	856	661
WORCHESTER	1	453	387
MICHIGAN			
ALPENA	0	380	218
DETROIT	18	1154	743
DETROIT METRO	6	731	654
FLINT	9	[illegible]	438
GRAND RAPIDS	15	619	575
HOUGHTON LAKE	2	367	250
LANSING	11	608	535
MARQUETTE C	0	413	216
MUSKEGON	11	583	469
SAULT STE MARIE	0	243	139
MINNESOTA			
DULUTH	0	229	176
INTERNATIONAL FALLS	2	328	176
MINNEAPOLIS	16	850	585
ROCHESTER	12	712	474
ST CLOUD	1	542	426
MISSISSIPPI			
JACKSON	101	2234	[illegible]
MERIDIAN	57	2194	2224
MISSOURI			
COLUMBIA REGIONAL	[illegible]	1126	[illegible]
KANSAS CITY	[illegible]	1533	1420
ST JOSEPH	49	1495	1334
ST LOUIS	[illegible]	1427	[illegible]
SPRINGFIELD	52	1348	1362
MONTANA			
BILLINGS	10	478	498
GLASGOW		378	438
GREAT FALLS		315	339
HAVRE		353	395
HELENA		167	[illegible]
KALISPELL		207	117
MILES CITY	5	[illegible]	[illegible]
MISSOULA		[illegible]	188
NEBRASKA			
GRAND ISLAND	[illegible]	[illegible]	[illegible]
LINCOLN	37	1292	1148
NORFOLK	24	[illegible]	[illegible]
NORTH PLATTE	[illegible]	[illegible]	[illegible]
OMAHA	44	[illegible]	1173
SCOTTSBLUFF	4	742	665
VALENTINE	16	[illegible]	[illegible]
NEVADA			
ELKO	0	283	342
ELY	0	168	[illegible]
LAS VEGAS	117	2971	[illegible]
RENO	3	348	329
WINNEMUCCA	3	[illegible]	407
NEW HAMPSHIRE			
CONCORD	0	553	349
MT WASHINGTON OBS	0	1	0
NEW JERSEY			
ATLANTIC CITY	10	[illegible]	[illegible]
ATLANTIC CITY U	16	821	835
NEWARK	20	1090	1024
TRENTON U	24	1060	968
NEW MEXICO			
ALBUQUERQUE	0	1100	1316
CLAYTON	1	719	767
ROSWELL	33	1434	1560
NEW YORK			
ALBANY	0	595	574
BINGHAMTON	[illegible]	[illegible]	369
BUFFALO	3	634	437
NEW YORK U	22	1010	[illegible]
NEW YORK KENNEDY	[illegible]	880	861
NEW YORK LA GUARDIA	20	944	1048
ROCHESTER	6	656	531
SYRACUSE	1	555	551
NORTH CAROLINA			
ASHEVILLE	[illegible]	795	872
CAPE HATTERAS R	142	1908	1543
CHARLOTTE	67	1590	1596
GREENSBORO	37	1569	1341
RALEIGH	38	1440	1394
WILMINGTON	145	2328	1958
NORTH DAKOTA			
BISMARCK	[illegible]	433	487
FARGO	15	553	473
WILLISTON	0	370	422
OHIO			
AKRON	[illegible]	775	634
CINCINNATI ABBE OB	24	1358	1184
CLEVELAND	5	720	613
COLUMBUS	10	1146	809
DAYTON U	13	967	935
MANSFIELD	9	746	818
TOLEDO	7	692	685
YOUNGSTOWN	9	656	518
OKLAHOMA			
OKLAHOMA CITY	83	1611	1876
TULSA	97	1917	1949
OREGON			
ASTORIA	0	23	13
BURNS U	0	347	289
EUGENE	1	293	239
MEDFORD	2	602	562
PENDLETON	8	834	656
PORTLAND	2	342	300
SALEM	0	197	232
SEXTON SUMMIT R	9	283	137
PACIFIC AREA			
GUAM TAGUAC R	435	4212	4166
JOHNSTON	461	4083	4266
KOROR R	527	[illegible]	[illegible]
KWAJALEIN	[illegible]	5097	5148
MAJURO	436	4656	4919
PAGO PAGO	507	4645	4413
PONAPE R	461	4862	4709
TRUK MOEN ISLAND	[illegible]	[illegible]	4894
WAKE	[illegible]	4497	4571
YAP R	489	4722	4725
PENNSYLVANIA			
ALLENTOWN	13	790	772
ERIE	6	588	373
HARRISBURG	12	1024	1025
PHILADELPHIA	[illegible]	1231	1104
PITTSBURGH	7	721	647
SCRANTON	14	[illegible]	[illegible]
WILLIAMSPORT	4	604	[illegible]
RHODE ISLAND			
BLOCK ISLAND			
PROVIDENCE	4	[illegible]	532
SOUTH CAROLINA			
CHARLESTON	[illegible]	2350	2066
CHARLESTON U	195	2550	2325
COLUMBIA	129	2193	[illegible]
GRNVLLE-SPRTNBRG	[illegible]	[illegible]	1573
SOUTH DAKOTA			
ABERDEEN	[illegible]	877	[illegible]
HURON	12	910	711
RAPID CITY	16	583	601
SIOUX FALLS	16	910	[illegible]
TENNESSEE			
BRISTOL	7	1109	1107
CHATTANOOGA	27	1364	[illegible]
KNOXVILLE	26	[illegible]	[illegible]
MEMPHIS	121	2159	[illegible]
NASHVILLE	62	1679	1694
OAK RIDGE	11	1156	[illegible]
TEXAS			
ABILENE	120	[illegible]	[illegible]
AMARILLO	40	[illegible]	[illegible]
AUSTIN	187	2544	2875
BROWNSVILLE	315	3612	3669
CORPUS CHRISTI	300	3524	3359
DALLAS FT WORTH	189	[illegible]	2576
DEL RIO	[illegible]	2836	[illegible]
EL PASO	[illegible]	1949	2098
GALVESTON	254	2896	2927
HOUSTON INTERCON	174	2564	2840
LUBBOCK	49	1467	1647
MIDLAND	[illegible]	1922	2245
PORT ARTHUR	186	2571	2750
SAN ANGELO	[illegible]	[illegible]	[illegible]
SAN ANTONIO	217	2542	2967
VICTORIA	240	3206	3074
WACO	200	2536	2647
WICHITA FALLS	116	2177	2605
UTAH			
MILFORD	0	475	[illegible]
SALT LAKE CITY	14	900	927
WENDOVER	14	1113	[illegible]
VERMONT			
BURLINGTON	[illegible]	699	396
VIRGINIA			
LYNCHBURG	14	1087	1100
NORFOLK	55	1727	1441
RICHMOND	[illegible]	1415	[illegible]
ROANOKE	27	1147	1030
WALLOPS ISLAND	48	1275	1107
WASHINGTON			
OLYMPIA	0	59	101
QUILLAYUTE	0	6	8
SEATTLE	0	120	183
SEATTLE-TACOMA	0	197	129
SPOKANE	0	340	308
STAMPEDE PASS R	0	36	16
WALLA WALLA U	2	797	[illegible]
YAKIMA	0	484	479
WEST INDIES			
SAN JUAN P.R.	519	4792	4205
WEST VIRGINIA			
BECKLEY	[illegible]	548	490
CHARLESTON	7	1070	1055
ELKINS	0	397	389
HUNTINGTON	17	1272	1098
PARKERSBURG U	12	1050	1045
WISCONSIN			
GREEN BAY	[illegible]	514	[illegible]
LA CROSSE	15	814	[illegible]
MADISON	21	742	[illegible]
MILWAUKEE	21	[illegible]	[illegible]
WYOMING			
CASPER	[illegible]	395	[illegible]
CHEYENNE	0	193	327
LANDER	[illegible]	333	[illegible]
SHERIDAN	0	293	446

STORM SUMMARY

OCTOBER 1975

STATE	TORNADOES					HAILSTORMS				WINDSTORMS				LIGHTNING				@HEAVY SNOWSTORMS AND BLIZZARDS				# ICE STORMS				¢ ALL OTHER			
								†DAMAGE				†DAMAGE				†DAMAGE				†DAMAGE				†DAMAGE				†DAMAGE	
	NUMBER	DAYS	DEATHS	INJURIES	† DAMAGE	DEATHS	INJURIES	PROP-ERTY	CORPS	DEATHS	INJURIES	PROP-ERTY	CORPS	DEATHS	INJURIES	PROP-ERTY	CORPS	DEATHS	INJURIES	PROP-ERTY	CORPS	DEATHS	INJURIES	PROP-ERTY	CORPS	DEATHS	INJURIES	PROP-ERTY	CORPS
Alabama	2	1			4																								
Alaska *																													
Arizona *																													
Arkansas *																													
California *																													
Colorado												4								?									
Connecticut																										1			
Delaware *																													
Florida	2	1			5										1	4												5	
Georgia *																													
Hawaii *																													
Idaho																				3									
Illinois												5		1															
Indiana *																													
Iowa *																													
Kansas *																													
Kentucky																												4	4
Louisiana																												?	?
Maine *																													
Maryland & D.C.																												3	
Massachusetts																3										1		3	
Michigan																4													
Minnesota *																													
Mississippi	1	1																								1		5	?
Missouri *																													
Montana												4								7	5								
Nebraska *																													
Nevada													3																
New Hampshire																												5	
New Jersey																										1		?	
New Mexico											10	4																	
New York																												5	
North Carolina	3	2			5																								
North Dakota												4								3									
Ohio												5																?	
Oklahoma														1		2													
Oregon *																													
Pacific *																													
Pennsylvania	1	1			6											4													
Puerto Rico *																													
Rhode Island *																													
South Carolina																												4	
South Dakota																				4									
Tennessee																												4	5
Texas	3	3			5							3																	
Utah										1	1	4																	
Vermont *																													
Virginia																3											3	4	
Virgin Islands *																													
Washington *																													
West Virginia *																													
Wisconsin *																													
Wyoming *																													

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

OCTOBER 1975

Herbert J. Thompson, Office of Hydrology

Major flooding occurred in Tennessee during October with losses estimated at $10 million in the middle and lower Cumberland and Tennessee River Basins. Serious flooding also occurred in Mississippi with loss of one life and losses approaching $2 million in the Pearl and upper Tombigbee River Basins.

This flooding was associated with a storm system which moved northeastward during the period of the 15th to the 20th which also caused substantial lowland flooding in the Ohio River Basin in Kentucky and minor to moderate river and flash flooding on a number of streams along the Atlantic Coast from Florida into New England. Some flooding continued from September on several streams in the Middle Atlantic coastal area.

Extremely heavy rainfall occurred in the Pacific Northwest with relatively minor flooding on the Wilson River in Oregon and the Nooksack River in Washington.

These and other hydrologic events of unusual significance or involving loss of life or property damage are discussed in more detail below.

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ATLANTIC SLOPE DRAINAGE		
Connecticut River Basin	The storm of the 19th-20th caused general heavy rainfall over the Connecticut River Basin with amounts in excess of 3 inches over the lower portion of the Basin. A substantial rise occurred along the length of the river with 3 to 4 feet of flooding from above Hartford, CT downstream. Some flash flooding was associated with this storm.	0	N.A.
Hudson River Basin	Considerable flash flooding occurred on smaller streams of the middle and lower Mohawk River Basin on the 19th-20th. Rainfall of up to over an inch the 17th to 18th saturated the soil and was followed by amounts of 2 to 3.5 inches on the 19th-20th, most of which ran off. Schoharie Creek crested just below flood stage while the Mohawk River crested 2 to 3 feet below flood stage.	0	N.A.
New Jersey Coastal and Delaware River Basins	Rainfall was about 150 percent of normal over the area during October. A tropical depression and an extra-tropical cyclone combined into one system over western Pennsylvania to bring rain in excess of 2 inches to the area during the 17th-18th with the heaviest amounts over the headwaters of the Delaware River. Both the East and West Branches of the Delaware were reported to have exceeded flood stage but the gage was out order and no crest data is available. In New Jersey the upper Millstone River had a crest 1.8 feet over flood stage on the 19th at Blackwells Mills.	0	N.A.
Susquehanna River Basin	The storm of the 17th-18th, mentioned above, also deposited heavy amounts of rain over the upper Susquehanna River, which exceeded flood stage by about 3 feet above Binghamton, NY, and by about one foot downstream at Vestal, NY. The Middle Susquehanna Basin received amounts of 3 to 4 inches from this storm with	0	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS-Continued

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ATLANTIC SLOPE DRAINAGE-Cont'd		
	some smaller streams reaching bankfull level, while the main stem crested about three quarters bankfull.		
South Atlantic Coastal Streams	Light flooding from the heavy rains of late September associated with hurricane Eloise continued into early October on the Neuse River at Goldsboro, NC. The Lumber River at Lumberton, NC, crested 1.8 feet over flood stage on the 1st, and the Pee Dee River flooded lightly at Pee Dee, SC. Minor flooding also occurred on the Roanoke River at Williamston, NC, from the 1st to the 12th as a result of upstream reservoir releases. The most significant flooding during the month resulted from a low pressure center, the remains of a tropical depression, which deposited rainfall amounts of 3 to 7 inches over the headwater areas of various streams as it moved across the area from eastern Tennessee. Flash flooding from this heavy rainfall caused losses estimated at $5,000. The Yadkin River crested 4.7 feet over flood stage at Elkin, NC, and the Broad River 6.4 feet over flood stage at Blair, SC. Some flooding also occurred along the Reedy River. Locally heavy amounts of over 3 inches on the 9th caused minor flooding on the Lumber River. Minor flooding began on the lower Savannah River on the 28th which continued into November.	0	N.A.
	EAST GULF OF MEXICO DRAINAGE		
Apalachicola and Choctawhatchee Rivers	Two periods of relatively minor flooding occurred on these streams during October. Rainfall during the period of the 6th to the 9th amounted to up to 3 inches or more in the headwaters of the Apalachicola, which crested 2 feet over flood stage at Blountstown, FL, on the 10th. Minor flooding occurred on the Choctawhatches at Caryville, FL. Rains of more than 3 inches on the 17th-18th caused minor flooding on the lower Apalachicola and a crest 1.6 feet over flood stage on the Choctawhatchee at Caryville.	0	N.A.
Tombigbee River Basin	The storm of the 17th-18th deposited amounts of up to more than 6 inches over the headwaters of the Tombigbee. Local flash flooding occurred in many areas. Crests of 1.8 feet and 2.9 feet over flood stage were reported at Fulton, MS, and Amory, MS, respectively. Loss estimated by the Corps of Engineers was $278,000 on the East Fork and $695,000 on the Noxubee River. Much of this loss was apparently caused by flash flooding, since the crest on the East Fork was not particularly high and the Noxubee River was not reported over flood stage. The loss was	0	973

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS-Continued

OCTOBER 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	EAST GULF OF MEXICO DRAINAGE-Cont'd		
	primarily agricultural. Minor flooding occurred on the lower Tombigbee a few days later from this storm.		
Pascagoula and Pearl River Basins	A record October twenty-four hour rainfall amount of 7.03 inches was reported at Jackson, MS, on the 15th to the 16th. Severe urban and flash flooding resulted in the area with some evacuations necessary. A 13-year old girl was swept off a bridge and drowned. About 25 people were evacuated from their homes in Pearl, MS. The Pearl River crested 13 feet over flood stage at Jackson and about 5 feet of flooding occurred upstream. This storm caused flooding on the Lower Pearl River in Louisiana which continued into November. Monthly rainfall totals were more than 300 percent of normal over the upper pearl Basin. Losses estimated by the Corps of Engineers included $760,000 agricultural, $164,000 to roads and railroads, and $5,000 urban. Urban flooding in Pascagoula, MS, caused evacuation of numerous families.	1	930
	MISSOURI BASIN		
Missouri River	October was an unusually dry month over much of the basin with only traces of precipitation reported at several stations in Iowa and Missouri and many stations in central and western Kansas reported none. The abnormally high releases from upstream reservoirs continued throughout the month resulting in high stages downstream and lowland flooding in the Ponca to Rulo, NE reach.	0	N.A.
	OHIO BASIN		
Ohio River Tributaries in Kentucky	Rainfall of 3 to 4 inches associated with the storm of the 17th-18th caused substantial lowland flooding along the Barren, Ohio, and lower Salt and Green Rivers in Kentucky. Up to 30,000 acres of cropland were affected with heavy losses of corn and soybeans. These rivers crested just below flood stage at the reporting stations upstream.	0	N.A.
Cumberland and Tennessee River Basins	The storm of the 17th-18th caused serious river and flash flooding in the middle section of Tennessee where rainfall averaged about 4 inches with locally heavy amounts to 6 inches. Moderate flooding occurred on the upper French Broad River in North Carolina with similar amounts of rainfall. In the Cumberland River Basin the Harpeth River crested nearly 4 feet over flood stage at Kingston Springs, TN. In the Tennessee River Basin minor flooding occurred on South Chickamauga Creek while crests of up to nearly 6 feet over flood stage	0	10,000

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS-Continued

OCTOBER 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	OHIO BASIN-Cont'd		
	were reported on the Duck River and 4 to 5 feet over flood stage on the Elk River. The Tennessee River went slightly over flood stage at Florence, AL. In the headwaters of the Tennessee a crest of 4.2 feet over flood stage occurred on the French Broad River at Rosman, NC. Over 20,000 acres of corn and soybeans were inundated in middle Tennessee with crop loss estimated at $3 million. Extensive loss also occurred to pastures, bridges, homes, and machinery and farm equipment.		
	LOWER MISSISSIPPI BASIN		
Big Black River Basin	The storm of the 15th-16th produced heavy rainfall with amounts of over 6 inches common. Significant lowland flooding occurred along the Big Black River with crests 6 to 7 feet over flood stage. Flash flooding from Bear Creek caused damage to 200 homes in Canton, MS, with residents evacuated. Urban flooding caused evacuation of 25 people in Vicksburg, MS.	0	N.A.
	WEST GULF OF MEXICO DRAINAGE		
Calcasieu River	Monthly rainfall for October was well above normal over the headwaters of the Calcasieu River, with a total of almost 9 inches at Hineston, LA. The river was above flood stage there from the 26th into November with a crest 3.3 feet over flood stage on the 28th.	0	N.A.
Southeast Texas Streams	Soil conditions in the area during the first half of October were the driest in about four years. Stages on some streams were the lowest since 1972. On the 15th-16th rains of 1 to 3 inches occurred, and amounts of 3.5 to 5 inches fell on the 23d-26th causing several streams to approach or exceed bankfull stages at some points. Village Creek crested at 14.65 feet at Kountze where the bankfull-flood stage is 12 feet. Pine Island Bayou crested at 24.98 feet at Sour Lake, just short of the 25 feet flood stage and well above the bankfull stage of 22 feet. Both streams are in the lower Neches Basin. Strong rises occurred on the lower Neches and Sabine Rivers.	0	N.A.
	PACIFIC SLOPE DRAINAGE		
Oregon Coastal and Willamette Valley Streams	The wettest October since 1962 occurred in the north coastal area with monthly totals of 7 to 19 inches and the Willamette Valley with totals of 4 to 11 inches of rain. More than half of these totals occurred during the period of the 25th-30th when Tillamook 13 ENE recorded 10.06 inches and Nehalem 9	0	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS-Continued

OCTOBER 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	PACIFIC SLOPE DRAINAGE-Cont'd		
	NE recorded 9.13 inches. Sharp rises occurred on the Wilson and Nehalem Rivers with the Wilson River cresting slightly over flood state on the 30th. Minor agricultural damage was reported along the Wilson River.		
Coastal Streams in Washington	Heavy rainfall over extreme northwest Washington during the period of the 14th-18th caused flooding on the Nooksack River with a crest about one foot over flood stage on the 18th. More than 8 inches of rain was reported at a nearby Canadian station for the period, with over 4 inches on the 17th.	0	N.A.
	PUERTO RICO		
	Two periods of heavy rainfall during October caused some urban flooding. On the 11th heavy rains occurred over the southwestern and western portions of the island with one station recording a 24-hour total of 5.75 inches. On the 23d rains of 3 to 4 inches were reported over the southern central slopes, and most of the rivers between Ponce and Maunabo were running near bankfull. However, no river flooding was reported.	0	N.A.

Clemson University Libraries

FLOOD STAGE DATA

(All dates in October unless otherwise specified)

River and station	Flood stage	Above flood stages—dates From	Above flood stages—dates To	Crest Stage	Crest Date
	Ft			Ft	
ATLANTIC SLOPE DRAINAGE					
Connecticut:					
Montague City, MA	28	20	21	28.28	20
Hartford, CT	16	20	24	19.72	22
Bodkin Rock, CT	8	20	24	10.87	22
Passaic:					
Chatham, NJ	6	Sep 25	1	7.97	Sep 26
Little Falls, NJ	7	Sep 25	1	8.94	Sep 28
Millstone:					
Blackwells Mills, NJ	7	19	20	8.80	19
West Branch Delaware:					
Hale Eddy, NY	11	18	19	U	[illegible]
East Branch Delaware:					
Fishes Eddy, NY	11	18	19	U	[illegible]
Susquehanna:					
Bainbridge, NY	13	19	21	15.8	19
Conklin, NY	11	18	21	14.30	19
Vestal, NY	18	19	20	19.1	19
Roanoke:					
Williamston, NC	10	1	12	10.8	5-7
Neuse:					
Goldsboro, NC	14	Sep 29	2	14.6	Sep 30
Yadkin:					
Wilkesboro, NC	14	17	18	15.4	17
Elkin, NC	16	18	18	20.7	18
Lumber:					
Lumberton, NC	9	Sep 28 8	5 11	10.8 9.4	1 9
Pee Dee:					
Pee Dee, SC	19	Sep 26	2	21.2	Sep 29
Broad:					
Gaffney, SC	10	18	19	12.0	18
Blair, SC	14	18	20	20.4	19
Reedy:					
Greenville, SC (Hudson St.)	9	17	17	10.2	17
Greenville, SC (Westfield St.)	8	17	17	9.17	17
Catawba:					
Lookout Shoals Reservoir, NC	100	2	2	100.8	2
Savannah:					
Clyo, GA	11	28	1/	11.8	Nov 11-12
EAST GULF OF MEXICO DRAINAGE					
Apalachicola:					
Blountstown, FL	15	9 19	14 20	16.96 15.89	10 20
Choctawhatchee:					
Caryville, FL	12	9 19	15 25	12.4 13.6	11 20
East Fork Tombigbee:					
Fulton, MS	15	18	22	16.8	18
Tombigbee:					
Amory, MS	20	18	19	22.9	18
Coffeeville Lock & Dam, AL	[illegible]	21	23	43.8	22
Yockanookany:					
Ofahoma, MS	14	18	23	16.3	20
Pearl:					
Edinburg, MS	20	18	24	24.8	20
Carthage, MS	17	18	26	22.2	22
Jackson, MS	18	17	31	31.2	24
EAST GULF OF MEXICO DRAINAGE-Cont'd					
Pearl-Continued:					
Monticello, MS	19	19	31	20.4	28
Bogalusa, LA	15	19	1/	18.7	31-Nov 1
Pearl River, LA	12	25	1/	12.8	Nov 2-4
Ohio Basin					
Harpeth:					
Kingston Springs, TN	15	17	18	#18.65	17
French Broad:					
Rosman, NC	8	17	17	12.2	17
Blantyre, NC	17	18	19	18.1	18
South Chickamauga Creek:					
Chickamauga, TN	10	8	9	10.20	8
Elk:					
Fayetteville, TN	661	17	18	665.5	17
Prospect, TN	26	17	20	31.08	18
Duck:					
Shelbyville, TN	722	17	18	723.9	17
Columbia, TN	32	17	20	37.80	19
Hurricane Mills, TN (Above)	18	19	22	20.00	21
Tennessee:					
Florence, AL	MSL419	17	20	419.61	17
White Basin					
Cache:					
Patterson, AR	7	Aug 21	5	A 8.2	Sep 22
Lower Mississippi Basin					
Big Black:					
West, MS	12	17	26	19.3	18
Bovina, MS	28	17	29	33.96	23
WEST GULF OF MEXICO DRAINAGE					
Calcasieu:					
Hinston, LA	12	26	1/	15.3	28
Village Creek:					
Kountze, TX (Near)	12	28	31	14.65	30
PACIFIC SLOPE DRAINAGE					
Wilson:					
Tillamook, OR	11	30	30	E11.4	30
Nooksack:					
Deming, WA	12	17	18	E13.2	18

A See Previous Monthly Reports for Additional Crest Information.

RAWINSONDE DATA

Average monthly values

ALBANY, NY
1010 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind: Direction tens of deg	Resultant Wind: Speed m.p.s.
SFC	30	86	8.0	6.2	28	.8
1000	29	172	9.0	5.2	28	1.2
950	30	595	8.9	3.9	28	3.4
900	30	1,041	7.1	1.8	28	5.2
850	30	1,511	6.0	-2.0	28	7.0
800	30	2,0[illegible]6	4.9	-5.2	27	8.6
750	30	2,542	3.2	-10.3	27	10.6
700	30	3,099	.7	-14.7	27	12.1
650	30	3,680	-2.6	-15.9	27	13.7
600	30	4,311	-6.4	-19.2	27	15.0
550	30	4,986	-10.1	-23.2	26	16.2
500	30	5,715	-14.6	-27.9	26	17.7
450	30	6,505	-20.0	-32.8	26	18.8
400	30	7,368	-26.5	-39.2	26	21.5
350	30	8,321	-33.6	-44.9	26	23.0
300	30	9,383	-41.4	-48.2	26	25.0
250	30	10,598	-51.0		27	29.6
200	30	12,033	-56.2		27	31.6
175	30	12,887	-58.6		27	28.7
150	30	13,841	-60.6		27	25.7
125	30	14,932	-62.2		27	22.6
100	29	16,346	-63.2		27	18.8
80	29	17,721	-62.0		27	13.4
70	29	18,550	-60.4		27	9.9
60	29	19,514	-59.4		27	7.4
50	29	20,659	-57.9		28	6.5
40	29	22,071	-56.4		28	3.8
30	29	23,915	-54.5		28	3.6
25	28	25,078	-53.3		27	5.2
20	26	26,517	-51.9		28	6.1
15	22	28,379	-50.3		27	8.4
10	14	31,067	-46.5			
7						

ALBUQUERQUE, NM
84[illegible] MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind: Direction tens of deg	Resultant Wind: Speed m.p.s.
SFC	31	1,619	6.9	-3.1	09	1.3
1000						
950						
900						
850						
800	31	2,022	11.5	-4.5	22	3.2
750	31	2,559	8.6	-7.3	26	4.1
700	31	3,125	4.4	-9.6	26	6.0
650	31	3,724	.6	-13.3	26	7.9
600	31	4,362	-3.1	-18.9	26	8.5
550	31	5,046	-7.1	-23.3	25	9.6
500	31	5,782	-12.1	-29.1	25	11.1
450	31	6,579	-17.7	-33.7	26	12.1
400	31	7,449	-24.2	-40.0	26	12.6
350	31	8,412	-31.7	-46.3	26	13.9
300	30	9,481	-39.7	-52.2	26	15.7
250	30	10,705	-48.1		26	19.4
200	30	12,148	-56.5		27	21.0
175	30	12,988	-60.1		27	21.1
150	30	13,943	-63.6		27	20.5
125	30	15,054	-66.4		27	18.1
100	30	16,398	-68.2		28	14.3
80	30	17,744	-65.9		27	8.6
70	30	18,560	-63.5		27	5.8
60	30	19,512	-61.1		27	3.9
50	30	20,651	-59.0		26	2.2
40	30	22,056	-57.5		27	1.3
30	30	23,887	-54.4		28	.6
25	30	25,060	-52.8		28	.9
20	29	26,508	-50.6		28	2.1
15	26	28,388	-48.4		28	5.6
10	19	31,061	-45.7		28	12.5
7	9	33,415	-43.9			

AMARILLO, TX
89[illegible] MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind: Direction tens of deg	Resultant Wind: Speed m.p.s.
SFC	31	1,095	8.5	-.7	23	2.6
1000						
950						
900	5	1,109	5.8	-.3		
850	31	1,501	13.2	-.8	24	5.9
800	31	2,010	12.2	-4.8	26	6.5
750	31	2,548	9.3	-7.4	26	6.7
700	31	3,116	5.7	-10.9	26	6.6
650	31	3,718	2.1	-14.8	25	6.7
600	31	4,360	-1.9	-18.8	26	7.6
550	31	5,045	-6.6	-23.5	26	8.0
500	31	5,783	-11.3	-28.8	26	9.3
450	31	6,580	-17.6	-33.7	26	9.7
400	31	7,451	-24.3	-39.4	27	10.9
350	31	8,412	-31.8	-45.9	27	12.5
300	31	9,483	-39.8	-52.4	27	14.1
250	30	10,706	-48.6		28	15.7
200	30	12,144	-57.7		28	18.8
175	30	12,979	-61.3		28	18.5
150	30	13,929	-64.3		28	18.9
125	28	15,040	-67.0		28	16.9
100	28	16,384	-67.8		28	12.7
80	26	17,732	-66.1		27	8.4
70	26	18,547	-63.4		27	5.3
60	26	19,499	-61.5		26	4.4
50	26	20,635	-59.3		24	1.8
40	25	22,037	-57.0		30	1.2
30	24	23,871	-54.[illegible]		33	.5
25	23	25,045	-52.6		31	.9
20	23	26,488	-50.6		28	3.7
15	21	28,376	-48.[illegible]		27	7.1
10	11	31,089	-44.2		28	9.1
7						

• ANCHORAGE, AK
994 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind: Direction tens of deg	Resultant Wind: Speed m.p.s.
SFC	31	45	1.3	-4.1	03	.6
1000	15	94	1.4	-6.[illegible]	04	.7
950	31	440	1.5	-6.4	03	2.1
900	31	874	-.6	-8.3	05	1.9
850	31	1,329	-3.2	-10.2	10	1.4
800	31	1,807	-6.0	-12.8	14	1.4
750	31	2,309	-9.3	-15.8	17	1.5
700	31	2,839	-12.4	-19.6	16	.7
650	31	3,403	-15.6	-23.8	24	.3
600	31	4,002	-19.5	-27.3	27	1.6
550	31	4,643	-23.6	-32.0	26	2.8
500	31	5,334	-28.0	-35.5	27	3.4
450	31	6,083	-33.0	-39.6	28	4.2
400	31	6,902	-38.6	-44.0	28	5.4
350	31	7,810	-44.9		28	7.2
300	31	8,823	-51.4		28	9.0
250	31	9,997	-53.6		27	11.3
200	31	11,440	-51.6		27	11.3
175	31	12,308	-50.8		27	11.1
150	31	13,312	-51.3		27	11.5
125	31	14,497	-51.4		27	11.0
100	31	15,945	-51.7		27	11.5
80	31	17,389	-52.4		27	12.2
70	31	18,253	-52.5		27	11.3
60	30	19,249	-53.1		27	12.1
50	30	20,424	-53.2		27	11.8
40	29	21,863	-53.8		27	13.2
30	28	23,712	-54.5		27	13.1
25	27	24,879	-54.1		28	15.5
20	26	26,320	-54.2		28	15.9
15	23	28,164	-54.1		28	18.1
10	13	30,782	-51.9		29	24.1
7						

• ANNETTE, AK
1002 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind: Direction tens of deg	Resultant Wind: Speed m.p.s.
SFC	29	37	6.7	4.5	15	1.7
1000	17	108	6.5	3.2	16	1.5
950	29	474	5.0	1.2	16	5.0
900	29	913	2.0	-1.2	16	5.8
850	29	1,372	-.9	-4.4	17	6.7
800	29	1,854	-3.0	-8.3	18	6.4
750	29	2,361	-6.5	-1[illegible]	[illegible]	[illegible]
700	29	2,897	-9.6	-15.0	21	.6
650	29	3,465	-13.3	-19.0	21	.6
600	29	4,070	-17.3	-23.8	22	1.6
550	29	4,717	-21.5	-26.9	23	6.5
500	29	5,413	-26.3	-34.2	23	[illegible]
450	29	6,167	-31.3	-35.0	24	8.3
400	29	6,991	-37.5	-4[illegible]	24	8.4
350	29	7,902	-44.4		24	9.5
300	29	8,915	-51.5		25	11.1
250	29	10,091	-53.3		27	13.8
200	29	11,531	-52.1		27	11.2
175	29	12,396	-52.1		27	11.4
150	29	13,393	-52.5		26	11.3
125	29	14,570	-53.2		27	10.7
100	29	16,005	-53.8		27	9.2
80	29	17,437	-54.0		27	8.5
70	29	18,293	-54.5		27	8.6
60	29	19,280	-54.7		27	8.0
50	29	20,440	-55.1		27	7.5
40	29	21,873	-54.5		28	7.6
30	29	23,716	-54.[illegible]		29	8.0
25	29	24,882	-54.8		29	8.5
20	25	26,309	-54.9		29	10.3
15	24	28,154	-54.2		30	9.6
10	9	30,728	-55.2			
7						

ATHENS, GA
991 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind: Direction tens of deg	Resultant Wind: Speed m.p.s.
SFC	31	246	13.6	11.6	02	.7
1000						
950	31	602	16.0	8.9	05	1.3
900	31	1,060	14.1	5.5	22	.9
850	31	1,541	12.2	1.5	23	2.9
800	31	2,047	9.9	-3.2	24	4.1
750	31	2,581	7.6	-6.9	24	5.4
700	31	3,147	4.5	-10.8	24	5.8
650	31	3,747	1.7	-15.2	25	5.8
600	31	4,388	-1.9	-19.5	25	6.0
550	31	5,074	-6.2	-23.1	25	6.5
500	31	5,813	-11.0	-26.6	25	7.9
450	31	6,614	-16.4	-31.2	25	9.4
400	31	7,489	-23.0	-36.6	25	11.0
350	31	8,456	-30.2	-42.5	25	13.8
300	31	9,531	-38.6	-48.8	24	16.5
250	30	10,762	-47.3		24	19.8
200	29	12,205	-57.2		25	20.3
175	29	13,041	-61.6		25	20.8
150	29	13,988	-65.0		25	18.2
125	29	15,092	-67.7		26	14.5
100	29	16,431	-68.7		26	8.9
80	29	17,772	-66.8		26	4.6
70	29	18,584	-64.8		27	3.7
60	29	19,529	-63.0		32	1.9
50	28	20,658	-60.7		35	1.3
40	28	22,058	-57.5		04	1.2
30	28	23,891	-54.1		05	2.4
25	26	25,069	-52.2		06	3.0
20	26	26,521	-49.7		01	.8
15	23	28,400	-47.5		28	3.9
10	11	31,073	-43.7			
7						

• BARROW, AK
1013 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind: Direction tens of deg	Resultant Wind: Speed m.p.s.
SFC	26	8	-13.9	-15.9	06	2.2
1000	25	107	-13.2	-15.4	06	2.8
950	26	494	-11.7	-15.1	08	3.8
900	26	909	-11.2	-17.0	09	2.4
850	26	1,348	-11.5	-18.1	09	1.7
800	26	1,812	-12.6	-19.4	12	.8
750	26	2,304	-14.6	-21.6	21	1.2
700	26	2,824	-17.1	-24.9	22	2.4
650	26	3,377	-20.2	-27.3	23	3.7
600	26	3,965	-24.2	-30.5	23	4.4
550	26	4,594	-28.5	-34.4	23	5.4
500	26	5,270	-33.5	-39.5	23	6.9
450	26	6,002	-38.8	-43.4	23	8.5
400	26	6,800	-44.5		23	10.0
350	26	7,685	-50.5		23	10.6
300	26	8,675	-56.0		23	11.8
250	24	9,829	-55.7		23	11.9
200	24	11,266	-51.6		24	10.9
175	23	12,137	-51.7		24	11.0
150	22	13,139	-51.8		24	10.4
125	22	14,319	-52.3		25	10.6
100	22	15,759	-53.3		25	11.6
80	22	17,194	-54.2		25	11.1
70	22	18,048	-55.2		25	11.3
60	22	19,031	-55.9		25	12.5
50	20	20,194	-57.0		25	12.5
40	17	21,596	-58.0		26	13.8
30	12	23,395	-58.4		25	14.4
25	7	24,586	-58.8			
20						
15						
10						
7						

BARTER ISLAND, AK
1012 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind: Direction tens of deg	Resultant Wind: Speed m.p.s.
SFC	15	15	-14.3	-16.0	27	5.0
1000	13	118	-14.8	-16.1	28	5.9
950	15	490	-13.2	-15.1	28	6.3
900	15	902	-12.6	-16.1	28	6.1
850	15	1,339	-12.5	-17.1	29	4.9
800	15	1,801	-14.5	-18.6	29	4.7
750	15	2,288	-16.7	-20.2	30	4.4
700	15	2,804	-19.4	-22.5	30	4.3
650	15	3,351	-22.4	-26.1	30	4.1
600	15	3,935	-26.0	-30.1	30	3.6
550	15	4,560	-30.0	-34.7	29	3.8
500	15	5,232	-34.9	-38.7	28	3.8
450	15	5,960	-39.7	-43.7	28	4.8
400	15	6,756	-44.9		27	5.9
350	15	7,641	-50.1		26	6.7
300	15	8,635	-54.3		27	7.7
250	15	9,801	-54.0		26	8.0
200	15	11,244	-51.3		26	8.1
175	15	12,112	-51.3		26	8.5
150	15	13,114	-51.2		26	9.3
125	15	14,297	-52.1		26	9.5
100	15	15,739	-53.0		26	10.2
80	15	17,176	-53.9		27	11.0
70	15	18,032	-54.8		27	12.2
60	15	19,017	-55.3		27	14.5
50	15	20,180	-55.6		27	15.2
40	15	21,598	-56.5		27	17.5
30	15	23,418	-57.9		28	19.7
25	14	24,574	-57.9		28	21.6
20	14	25,980	-58.2		28	22.5
15	10	27,812	-58.6			
10						
7						

BETHEL, AK
1001 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind: Direction tens of deg	Resultant Wind: Speed m.p.s.
SFC	31	39	-1.7	-3.2	35	1.9
1000	16	141	-3.2	-6.1	36	3.2
950	31	458	-1.6	-5.2	02	2.8
900	31	887	-3.0	-8.4	01	2.2
850	31	1,338	-5.1	-11.1	34	2.2
800	31	1,814	-6.9	-16.2	33	2.3
750	31	2,315	-9.3	-18.3	31	2.0
700	31	2,845	-12.4	-21.4	29	2.5
650	31	3,409	-15.6	-24.8	27	2.4
600	31	4,009	-19.1	-29.1	27	2.4
550	31	4,651	-23.1	-33.2	27	3.5
500	31	5,343	-27.9	-37.8	27	3.9
450	31	6,092	-32.9	-42.[illegible]	26	5.0
400	31	6,911	-38.6	-45.3	26	6.5
350	31	7,820	-44.7		26	8.2
300	31	8,833	-51.1		26	8.7
250	31	10,008	-54.4		27	10.7
200	31	11,448	-51.6		27	11.2
175	31	12,316	-51.3		27	11.7
150	31	13,317	-51.6		27	11.3
125	31	14,499	-52.0		27	10.7
100	30	15,941	-52.3		27	10.8
80	30	17,385	-52.4		27	10.9
70	30	18,249	-52.5		27	10.2
60	30	19,244	-53.0		26	10.4
50	30	20,419	-53.4		26	10.9
40	29	21,851	-53.5		27	11.6
30	26	23,689	-53.5		27	12.8
25	25	24,859	-53.8		27	14.2
20	25	26,294	-53.7		27	14.7
15	19	28,169	-52.9		27	15.5
10	7	30,782	-51.8			
7						

• BISMARCK, ND
953 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind: Direction tens of deg	Resultant Wind: Speed m.p.s.
SFC	31	503	4.5	1.0	30	.9
1000						
950	23	550	4.6	.6	29	1.2
900	31	974	7.1	-2.7	29	3.6
850	31	1,444	6.3	-6.2	29	5.0
800	31	1,940	4.7	-9.3	29	6.0
750	31	2,463	1.9	-13.0	29	7.4
700	31	3,016	-1.5	-15.5	28	8.6
650	31	3,602	-5.2	-17.3	28	10.9
600	31	4,226	-9.0	-20.0	28	12.6
550	31	4,895	-13.2	-24.9	27	14.1
500	31	5,614	-18.1	-27.5	27	16.3
450	31	6,393	-23.2	-34.8	27	18.3
400	31	7,245	-29.5	-40.6	27	21.3
350	31	8,186	-36.9	-45.0	27	22.9
300	30	9,237	-44.8		27	24.8
250	29	10,437	-52.1		27	26.5
200	29	11,863	-56.2		27	26.3
175	29	12,704	-58.6		27	25.1
150	29	13,676	-58.0		27	21.0
125	29	14,822	-59.3		27	16.4
100	29	16,218	-60.1		27	11.6
80	29	17,613	-59.2		27	9.1
70	29	18,450	-59.0		27	7.6
60	29	19,417	-58.7		27	6.8
50	29	20,566	-57.9		27	5.3
40	28	21,978	-57.4		28	6.8
30	24	23,820	-56.2		28	5.4
25	21	24,990	-54.7		28	6.5
20	21	26,422	-53.4		29	8.2
15	19	28,289	-51.4		28	9.3
10	17	30,940	-49.1		28	12.3
7	8	33,381	-44.7			

BOISE, ID
916 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind: Direction tens of deg	Resultant Wind: Speed m.p.s.
SFC	31	871	8.1	-.5	14	1.3
1000						
950						
900	31	1,024	9.9	-.5	14	1.1
850	31	1,487	8.0	-2.9	25	1.9
800	31	1,985	4.7	-4.7	26	4.2
750	31	2,508	1.1	-7.8	27	5.9
700	31	3,059	-2.6	-11.8	27	7.5
650	31	3,643	-5.9	-14.6	26	9.1
600	31	4,266	-9.8	-17.1	26	10.6
550	31	4,933	-13.7	-22.5	26	12.4
500	31	5,651	-18.4	-26.6	26	14.2
450	31	6,429	-23.6	-31.2	26	16.0
400	30	7,276	-29.9	-37.7	26	17.0
350	30	8,217	-36.8	-42.8	26	18.1
300	30	9,264	-44.5		26	19.6
250	30	10,464	-52.1		26	22.2
200	30	11,890	-57.1		26	23.0
175	30	12,732	-58.6		26	20.8
150	30	13,699	-59.2		26	19.5
125	30	14,839	-60.5		26	16.9
100	29	16,224	-61.3		26	13.4
80	29	17,611	-60.3		26	10.2
70	29	18,446	-59.6		26	7.3
60	29	19,410	-59.7		27	5.3
50	29	20,554	-58.6		28	4.4
40	28	21,955	-57.7		28	3.7
30	27	23,777	-56.2		28	4.2
25	27	24,940	-55.0		29	5.2
20	27	26,369	-53.9		28	5.9
15	20	28,231	-52.0		28	6.9
10	20	30,891	-49.7			
7	9	33,286	-45.5			

BOOTHVILLE, LA
1018 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind: Direction tens of deg	Resultant Wind: Speed m.p.s.
SFC	31	1	20.5	18.6	03	1.4
1000	31	153	21.0	17.0	06	2.3
950	31	596	18.4	14.2	10	3.0
900	31	1,058	15.4	9.6	13	.8
850	31	1,542	13.6	2.5	16	1.4
800	31	2,051	11.3	-2.7	19	1.7
750	31	2,588	9.0	-6.1	23	1.7
700	31	3,156	6.3	-11.9	25	2.1
650	31	3,760	3.2	-14.3	25	3.0
600	30	4,405	-.7	-18.2	25	4.0
550	30	5,094	-5.0	-21.3	26	4.6
500	30	5,836	-10.1	-25.2	25	6.1
450	30	6,641	-15.3	-30.8	25	8.1
400	30	7,519	-21.8	-36.0	25	9.0
350	30	8,492	-28.5	-42.4	25	11.5
300	30	9,576	-36.7	-49.9	25	14.6
250	29	10,813	-45.9		26	19.1
200	29	12,265	-56.0		26	21.0
175	29	13,105	-60.8		26	19.1
150	29	14,052	-65.9		26	17.6
125	28	15,148	-69.7		27	13.5
100	27	16,468	-71.7		28	8.1
80	26	17,795	-69.0		29	1.8
70	26	18,598	-66.4		13	1.7
60	26	19,537	-63.8		11	1.9
50	26	20,663	-60.8		08	3.5
40	24	22,059	-57.4		08	4.5
30	24	23,895	-53.2		07	4.7
25	23	25,076	-50.9		08	5.1
20	2[illegible]	26,543	-47.5		07	4.9
15	16	28,445	-45.4		07	3.2
10	9	31,165	-39.7			
7						

• BROWNSVILLE, TX
1015 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind: Direction tens of deg	Resultant Wind: Speed m.p.s.
SFC	31	7	20.0	18.2	09	.3
1000	31	138	22.9	19.5	11	1.2
950	31	584	20.1	16.6	13	3.5
900	31	1,050	17.7	10.6	15	2.9
850	31	1,537	15.0	6.7	16	2.7
800	31	2,049	13.3	.2	17	1.2
750	31	2,590	10.5	-4.3	30	.8
700	31	3,161	7.4	-9.5	30	1.2
650	31	3,767	4.1	-12.8	[illegible]	2.0
600	31	4,413	.2	-16.6	28	3.3
550	31	5,105	-4.3	-20.6	28	2.9
500	31	5,850	-8.8	-25.6	29	3.9
450	31	6,658	-14.1	-31.3	28	6.0
400	31	7,542	-20.0	-36.7	28	9.4
350	31	8,521	-27.1	-42.9	28	12.2
300	31	9,610	-35.6	-49.6	28	15.0
250	31	10,854	-45.0		28	16.7
200	31	12,309	-55.7		28	18.2
175	30	13,151	-61.1		28	19.5
150	31	14,096	-66.3		28	16.3
125	31	15,185	-71.9		27	12.4
100	31	16,489	-74.5		28	6.1
80	31	17,795	-70.7		36	2.2
70	31	18,594	-67.5		08	4.2
60	31	19,528	-65.0		10	5.4
50	31	20,652	-61.1		09	5.7
40	28	22,051	-57.5		09	6.8
30	27	23,890	-53.2		08	8.3
25	26	25,075	-50.1		09	8.9
20	26	26,543	-46.[illegible]		08	8.5
15	24	28,468	-42.9		08	7.1
10	14	31,241	-38.5			
7						

BUFFALO, NY
994 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind: Direction tens of deg	Resultant Wind: Speed m.p.s.
SFC	31	218	9.4	6.1	19	1.7
1000	5	241	3.8	-.6		
950	31	593	9.4	4.0	25	4.8
900	31	1,040	7.4	1.8	26	6.4
850	31	1,509	5.9	-2.9	27	7.3
800	31	2,005	4.7	-6.6	27	8.5
750	31	2,529	2.2	-9.6	27	9.9
700	31	3,084	-.1	-13.7	27	11.2
650	31	3,674	-3.1	-17.4	27	12.4
600	31	4,303	-6.9	-21.2	26	13.8
550	31	4,977	-10.9	-25.9	26	15.4
500	31	5,703	-15.7	-30.8	26	17.1
450	31	6,489	-21.2	-35.[illegible]	26	18.8
400	31	7,347	-27.5	-40.0	26	20.5
350	31	8,297	-34.6	-45.8	26	22.7
300	31	9,354	-42.0	-49.7	26	25.8
250	30	10,562	-49.8		26	30.4
200	30	12,001	-55.7		26	29.9
175	30	12,848	-57.7		26	26.7
150	30	13,816	-59.6		26	23.3
125	30	14,950	-61.6		27	19.4
100	29	16,330	-62.0		27	15.6
80	29	17,712	-61.2		27	11.4
70	28	18,544	-59.8		27	9.2
60	28	19,510	-58.6		27	7.7
50	28	20,658	-57.8		27	5.7
40	28	22,072	-55.9		28	4.[illegible]
30	27	23,913	-54.0		28	3.4
25	26	25,084	-52.7		28	4.9
20	25	26,524	-51.5		27	5.[illegible]
15	21	28,381	-50.0		27	9.0
10	6	30,927	-49.5			
7						

CAPE HATTERAS, NC
1019 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind: Direction tens of deg	Resultant Wind: Speed m.p.s.
SFC	31	4	18.0	16.1	[illegible]	2.0
1000	31	164	20.8	14.5	36	2.9
950	31	604	16.8	11.5	34	2.8
900	31	1,054	14.4	6.6	31	2.5
850	31	1,546	12.7	1.6	28	3.7
800	31	2,053	10.6	-3.1	28	5.[illegible]
750	31	2,589	8.1	-5.3	27	5.4
700	31	3,156	5.5	-8.7	[illegible]	6.[illegible]
650	31	3,759	2.0	-12.5	26	6.9
600	31	4,402	-.9	-16.1	26	[illegible]
550	31	5,092	-5.2	-20.9	26	8.[illegible]
500	31	5,834	-9.9	[illegible]	26	9.6
450	31	6,638	-15.4	-30.7	26	10.5
400	31	7,510	-21.6	-35.5	26	[illegible]
350	31	8,488	-28.9	-41.1	25	[illegible]
300	31	9,569	[illegible]	[illegible]	25	14.8
250	31	10,802	-46.9		25	16.5
200	31	12,245	[illegible]		25	[illegible]
175	31	13,079	[illegible]		26	[illegible]
150	31	14,023	[illegible]		26	18.6
125	31	15,124	-65.4		[illegible]	14.3
100	31	16,457	[illegible]		[illegible]	9.4
80	31	17,797	[illegible]		26	5.7
70	31	18,579	-64.4		[illegible]	[illegible]
60	31	19,556	[illegible]		[illegible]	[illegible]
50	29	20,689	-59.3		[illegible]	[illegible]
40	29	22,094	[illegible]		[illegible]	[illegible]
30	29	23,930	-53.5		34	1.0
25	27	25,108	[illegible]		[illegible]	.2
20	2[illegible]	26,566	[illegible]		[illegible]	1.3
15	21	28,472	-46.[illegible]		[illegible]	4.8
10	5	31,189	-43.9			
7						

RAWINSONDE DATA

Average monthly values

OCTOBER 1975

Standard pressure surface mb	* CARIBOU, ME 995 MB						CENTREVILLE, AL 1004 MB						CHARLESTON, SC 1018 MB						CHATHAM, MA 1017 MB						* COLD BAY, AK 1003 MB					
	No of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s	No of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s	No of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s	No of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s	No of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	191	2.4	-.4	29	1.9	31	140	13.7	11.9	04	2.1	31	13	16.3	13.9	36	1.6	31	16	12.1	9.4	03	1.4	28	30	3.7	1.5	31	2.7
1000	10	216	.9	-3.9	32	1.0	29	177	15.1	11.7	05	2.3	31	165	18.1	14.3	02	2.6	31	156	12.5	7.0	36	1.0	17	132	3.2	-.4	31	3.3
950	31	565	3.7	-2.0	30	5.7	31	606	16.1	9.8	14	1.3	31	605	17.6	11.7	03	2.4	31	586	11.4	3.3	30	2.6	28	470	1.3	-1.2	31	4.6
900	31	1,003	2.6	-5.6	30	6.5	31	1,064	14.2	7.3	21	1.8	31	1,067	15.5	8.1	36	.8	31	1,037	9.9	1.4	29	4.4	28	904	-1.0	-4.4	31	5.2
850	31	1,464	.8	-8.9	30	7.4	31	1,546	12.4	2.2	23	2.6	31	1,550	13.4	2.0	25	1.4	31	1,511	8.2	-1.6	29	6.4	28	1,358	-3.2	-8.1	30	5.1
800	31	1,951	-.1	-11.4	30	8.8	31	2,053	9.9	-.6	24	2.6	31	2,059	11.5	-2.1	25	2.8	31	2,010	6.5	-5.4	27	7.9	28	1,837	-5.1	-11.6	30	5.1
750	31	2,466	-2.0	-12.2	29	11.1	31	2,586	7.2	-6.5	23	2.8	31	2,596	8.7	-5.5	25	3.5	31	2,538	4.3	-9.3	27	8.9	28	2,342	-7.3	-16.0	29	5.5
700	31	3,013	-3.8	-16.8	28	13.2	31	3,151	4.8	-11.9	24	3.9	31	3,163	5.5	-8.5	25	3.8	31	3,097	1.8	-13.1	28	11.0	28	2,877	-9.9	-19.5	29	6.6
650	31	3,596	-6.4	-20.6	28	15.6	31	3,753	1.9	-14.5	24	5.2	31	3,766	2.7	-14.5	25	4.3	31	3,691	-1.6	-15.8	28	12.4	28	3,445	-12.9	-24.0	29	7.5
600	31	4,218	-9.2	-23.4	28	17.3	31	4,394	-1.9	-17.9	24	5.8	31	4,410	-.8	-18.8	25	5.2	31	4,325	-4.9	-20.9	27	14.0	28	4,052	-16.4	-26.7	29	8.2
550	31	4,886	-13.1	-25.6	28	19.4	31	5,080	-6.2	-21.6	24	6.9	31	5,099	-4.8	-22.9	25	5.6	31	5,004	-9.1	-23.4	27	14.9	28	4,701	-20.5	-30.4	28	9.4
500	31	5,606	-17.7	-29.7	28	21.9	31	5,818	-11.3	-26.1	23	7.9	31	5,842	-9.7	-26.3	25	6.2	31	5,734	-14.0	-28.0	27	15.9	28	5,401	-24.6	-34.7	28	10.4
450	31	6,387	-22.9	-35.2	28	24.2	31	6,619	-16.7	-31.5	24	9.6	31	6,647	-15.3	-30.5	25	7.7	31	6,526	-19.1	-31.0	27	17.3	28	6,160	-29.8	-40.2	28	11.5
400	31	7,240	-29.2	-40.9	28	26.2	30	7,492	-23.0	-37.0	24	12.3	31	7,526	-21.5	-33.3	24	9.1	31	7,392	-25.4	-36.4	27	18.8	28	6,990	-35.6	-44.3	28	12.1
350	31	8,183	-36.2	-45.1	28	28.3	30	8,460	-30.0	-42.6	24	13.5	31	8,499	-28.8	-40.3	25	9.8	31	8,351	-32.4	-43.0	27	21.4	28	7,909	-42.1	-43.6	29	13.1
300	31	9,233	-43.8	-47.2	27	30.5	30	9,537	-38.2	-48.6	24	15.7	31	9,580	-37.2	-47.7	24	11.9	31	9,417	-40.6	-45.6	27	24.0	27	8,927	-48.9		28	16.5
250	31	10,439	-50.4		28	32.5	30	10,767	-47.4		25	17.4	31	10,815	-46.7		24	13.8	31	10,636	-49.0		27	27.9	27	10,116	-51.2		28	20.2
200	31	11,879	-55.0		27	33.2	30	12,210	-56.9		26	20.5	31	12,260	-57.3		25	15.3	31	12,074	-56.9		26	30.2	26	11,577	-51.6		28	21.6
175	31	12,730	-56.3		27	30.3	30	13,048	-60.9		26	19.2	31	13,094	-62.3		25	15.9	31	12,915	-59.6		27	28.0	26	12,442	-52.1		28	21.3
150	31	13,706	-57.8		27	26.2	30	13,998	-64.6		26	18.5	31	14,037	-66.0		26	14.8	31	13,873	-62.2		26	23.6	24	13,422	-51.9		27	17.8
125	31	14,856	-58.1		27	21.3	30	15,104	-67.6		26	14.4	31	15,135	-68.9		26	11.2	31	14,994	-64.1		27	21.1	24	14,601	-52.7		27	16.0
100	31	16,257	-59.1		27	15.2	30	16,441	-69.4		27	9.2	31	16,464	-70.1		27	6.9	31	16,360	-64.3		27	14.7	24	16,042	-53.1		27	13.8
80	31	17,655	-58.5		28	11.7	30	17,779	-67.0		25	4.5	30	17,799	-67.7		27	2.9	30	17,726	-63.0		27	11.2	22	17,471	-53.3		27	12.2
70	30	18,497	-57.9		28	9.1	30	18,590	-64.7		25	2.7	29	18,605	-65.2		26	2.1	30	18,551	-61.6		28	8.4	22	18,332	-53.3		27	11.2
60	29	19,476	-57.5		28	7.6	30	19,536	-62.8		28	1.5	29	19,550	-62.9		32	1.3	28	19,512	-60.2		28	6.2	22	19,323	-53.6		27	9.8
50	29	20,628	-57.3		28	7.1	30	20,666	-60.3		04	1.0	28	20,679	-60.1		04	1.8	27	20,655	-58.6		28	5.0	20	20,486	-53.4		27	9.8
40	29	22,043	-56.3		28	5.3	30	22,067	-57.4		06	1.7	27	22,085	-56.8		06	1.1	27	22,064	-56.6		28	3.7	20	21,924	-53.6		27	9.3
30	27	23,875	-54.6		28	5.6	29	23,899	-53.6		06	2.2	25	23,920	-53.8		05	2.3	23	23,896	-54.3		29	3.8	20	23,777	-53.4		28	9.4
25	26	25,045	-53.7		28	5.8	28	25,082	-51.3		05	2.3	24	25,100	-51.1		06	2.2	21	25,074	-53.1		28	4.4	17	24,960	-52.5		28	8.9
20	24	26,470	-52.8		27	6.5	25	26,541	-49.0		05	1.8	21	26,564	-48.5		02	.9	21	26,518	-51.4		28	4.6	16	26,410	-51.7		28	8.7
15	21	28,348	-51.0		26	8.4	24	28,449	-45.6		28	2.1	17	28,472	-46.2		30	2.3	17	28,395	-49.2		27	6.1	15	28,278	-51.1		29	10.2
10	9	31,040	-49.4				17	31,168	-42.3		26	8.9	8	31,169	-41.1				5	31,075	-46.2									

Standard pressure surface mb	DAYTON, OH 985 MB						DEL RIO, TX 980 MB						DENVER, CO 838 MB						DODGE CITY, KS 925 MB						EL PASO, TX 883 MB					
	No of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s	No of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s	No of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s	No of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s	No of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	299	8.5	6.8	23	.3	31	314	16.3	13.0	10	2.5	31	1,611	5.5	-4.8	21	2.1	31	791	8.4	.4	19	2.4	31	1,193	10.7	1.0	03	.3
1000																														
950	31	601	11.2	4.0	25	3.7	31	581	17.2	11.5	15	5.9																		
900	31	1,052	10.1	.7	27	5.1	31	1,042	16.2	8.7	17	7.6							31	1,021	12.4	-.1	21	5.3						
850	31	1,526	8.2	-1.6	26	6.0	31	1,528	14.9	2.5	18	5.3							31	1,502	13.5	-3.3	24	6.8	31	1,518	15.9	-2.4	21	.9
800	31	2,025	6.4	-5.5	26	7.2	31	2,039	13.1	-2.4	19	2.8	31	1,991	10.8	-6.8	26	2.8	31	2,010	11.6	-6.6	24	6.3	31	2,030	13.3	-4.4	23	3.0
750	31	2,552	4.1	-9.5	26	7.7	31	2,579	10.3	-8.6	27	1.5	31	2,526	8.1	-10.0	28	4.1	31	2,547	8.5	-10.0	25	6.0	31	2,570	9.8	-7.0	25	4.7
700	31	3,111	1.5	-13.1	26	8.9	31	3,149	6.5	-11.7	28	2.3	31	3,091	4.0	-13.3	28	5.0	31	3,113	4.7	-13.3	26	6.4	31	3,138	5.9	-10.7	24	5.1
650	31	3,705	-1.3	-16.6	27	9.1	31	3,753	3.1	-16.1	28	2.1	31	3,689	-.1	-16.2	28	6.7	31	3,712	1.1	-16.4	26	6.9	31	3,740	1.9	-14.7	24	5.3
600	31	4,338	-5.2	-21.7	26	10.2	31	4,396	-.8	-19.2	28	2.3	31	4,325	-4.2	-19.7	27	8.9	31	4,352	-2.8	-21.2	27	7.2	31	4,381	-1.8	-19.8	24	6.0
550	31	5,016	-9.3	-25.4	26	11.2	31	5,086	-4.8	-22.9	27	3.5	31	5,006	-8.3	-24.6	27	10.0	31	5,035	-7.5	-25.8	27	9.2	31	5,068	-5.8	-23.3	25	7.0
500	31	5,746	-14.2	-28.2	27	12.3	31	5,829	-9.8	-27.4	27	4.6	31	5,738	-13.6	-30.1	26	11.4	31	5,770	-12.8	-30.0	26	9.9	31	5,807	-11.1	-29.4	25	7.4
450	31	6,537	-19.6	-32.5	27	14.2	31	6,633	-15.4	-31.8	28	6.5	31	6,529	-19.7	-35.3	26	12.2	31	6,565	-18.6	-34.9	26	10.9	31	6,608	-16.7	-34.6	25	9.4
400	31	7,401	-25.8	-38.5	26	15.6	31	7,511	-22.0	-38.7	28	9.1	31	7,392	-26.6	-40.3	26	13.9	31	7,432	-25.2	-40.5	27	11.9	31	7,481	-23.5	-39.9	26	10.5
350	31	8,358	-32.9	-43.6	26	18.2	31	8,482	-29.2	-44.8	28	11.9	31	8,345	-33.7	-45.8	26	15.0	31	8,390	-32.9	-47.4	27	12.7	31	8,446	-30.5	-46.2	26	14.2
300	31	9,422	-40.8	-49.1	26	20.7	31	9,562	-37.4	-50.6	28	16.5	31	9,405	-41.9	-52.4	26	15.7	31	9,452	-41.7	-52.5	27	14.6	31	9,521	-38.6	-51.7	26	17.5
250	31	10,641	-49.0		26	23.1	31	10,797	-46.3		28	20.9	31	10,615	-51.0		26	17.2	31	10,665	-50.2		27	17.7	31	10,750	-47.4		27	21.4
200	31	12,077	-57.0		26	23.1	31	12,247	-56.1		28	23.9	31	12,040	-58.4		26	20.1	31	12,096	-57.8		27	19.9	31	12,196	-56.3		27	24.4
175	31	12,918	-59.4		26	22.8	31	13,087	-60.9		28	23.9	31	12,875	-61.0		26	21.8	31	12,932	-61.0		28	20.1	31	13,036	-60.9		27	24.5
150	31	13,878	-61.8		26	19.8	31	14,034	-65.7		28	21.4	31	13,830	-61.9		27	21.3	31	13,884	-63.5		28	18.8	31	13,984	-65.1		27	21.6
125	31	15,003	-63.5		26	17.8	31	15,131	-69.5		27	16.8	30	14,954	-63.2		27	16.2	31	14,998	-65.7		27	17.1	31	15,085	-68.5		27	20.0
100	31	16,367	-64.6		26	13.6	31	16,452	-72.3		28	10.4	28	16,319	-64.1		27	11.5	31	16,347	-66.8		27	12.6	31	16,414	-70.5		27	13.9
80	30	17,734	-63.3		26	10.8	30	17,768	-70.1		29	4.8	28	17,686	-62.7		26	8.8	30	17,709	-64.0		26	8.2	30	17,742	-69.0		28	7.3
70	29	18,557	-61.4		26	8.8	30	18,569	-67.1		02	.5	28	18,512	-60.9		27	6.3	30	18,530	-62.4		26	6.8	30	18,546	-66.2		27	4.2
60	29	19,517	-60.0		27	5.8	30	19,506	-64.1		13	1.5	26	19,479	-59.9		27	5.2	30	19,485	-61.0		25	5.5	30	19,489	-62.9		27	1.4
50	29	20,659	-58.9		28	4.5	30	20,631	-61.0		10	2.5	23	20,631	-58.0		27	3.3	29	20,623	-59.2		25	3.6	28	20,616	-60.7		13	.4
40	29	22,065	-57.2		29	3.6	30	22,028	-58.5		09	3.2	23	22,039	-57.1		28	2.9	27	22,030	-57.9		28	1.8	27	22,010	-58.3		07	1.7
30	28	23,899	-54.1		28	3.6	30	23,853	-54.6		08	5.0	21	23,879	-54.9		27	2.8	25	23,854	-54.9		26	2.0	25	23,837	-54.8		08	2.2
25	27	25,070	-53.1		29	4.3	30	25,027	-52.2		08	5.1	18	25,054	-53.0		28	3.0	25	25,024	-53.5		27	3.4	24	25,014	-53.3		09	2.4
20	27	26,515	-51.1		28	4.6	30	26,482	-49.1		07	4.6	17	26,498	-50.9		27	4.9	25	26,467	-51.6		27	4.7	23	26,461	-50.5		05	1.4
15	25	28,407	-48.7		27	5.8	28	28,385	-45.7		07	2.9	9	28,390	-49.0				24	28,336	-49.4		27	8.8	20	28,358	-47.6		32	1.3
10	20	31,096	-46.0		27	12.7	14	31,102	-41.4										20	31,015	-45.9		27	13.2	13	31,054	-43.3		27	8.3
7																			12	33,403	-43.1									
5																			5	35,669	-40.5									

Standard pressure surface mb	ELY, NV 809 MB						EMPALME, MEXICO 1011 MB						* FAIRBANKS, AK 991 MB						FLINT, MI 991 MB						GLASGOW, MT 932 MB					
	No of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s	No of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s	No of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s	No of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s	No of observations	Dynamic height meters	Temperature °C	Dew Point °C †	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	1,908	1.7	-5.6	19	4.0	31	12	18.4	9.9	35	.8	29	135	-5.9	-9.0	33	.3	31	236	8.4	4.8	22	1.3	31	696	3.0	-1.4	00	1.3
1000							31	105	22.5	10.9	35	1.7	7	172	-12.3	-14.0														
950							31	553	23.9	4.7	34	2.4	29	465	-4.4	-7.7	06	1.3	31	585	9.2	2.2	27	4.5						
900							31	1,023	21.6	1.9	23	1.1	29	891	-5.4	-9.3	09	1.0	31	1,032	7.4	-.9	28	5.8	31	981	7.0	-1.9	28	2.4
850							31	1,515	18.3	-.1	20	3.4	29	1,338	-7.2	-11.9	13	.7	31	1,501	5.7	-5.6	27	7.0	31	1,450	5.8	-4.2	29	5.3
800	28	2,012	5.0	-5.0	19	3.8	31	2,031	14.7	-3.6	20	4.4	29	1,809	-9.5	-13.1	15	.7	31	1,996	4.0	-7.2	27	7.7	31	1,944	3.1	-6.4	30	6.0
750	30	2,532	4.7	-8.0	20	3.9	31	2,573	11.4	-7.1	19	5.4	29	2,306	-11.8	-15.2	24	1.2	31	2,519	2.0	-10.8	27	9.0	31	2,465	.0	-9.2	29	6.6
700	30	3,091	1.2	-10.7	23	6.2	31	3,145	7.9	-11.2	20	5.8	29	2,832	-14.8	-19.0	27	2.1	31	3,073	-.4	-14.2	27	11.0	31	3,013	-3.5	-12.6	28	8.1
650	30	3,683	-2.7	-14.5	24	8.4	31	3,752	4.7	-15.5	21	5.3	29	3,389	-18.1	-23.4	27	2.7	31	3,662	-3.2	-18.2	27	12.1	31	3,596	-6.8	-15.7	28	9.4
600	30	4,313	-6.3	-19.0	25	10.0	31	4,400	1.3	-19.8	24	5.0	29	3,983	-22.0	-28.2	27	2.8	31	4,292	-6.8	-21.7	26	13.7	31	4,217	-10.5	-18.4	28	11.1
550	30	4,989	-10.4	-23.8	26	11.0	31	5,095	-2.9	-23.3	25	5.9	29	4,617	-26.3	-32.6	28	3.7	31	4,965	-11.2	-24.4	27	14.9	31	4,882	-14.4	-22.6	27	12.6
500	30	5,716	-15.4	-28.0	26	13.9	31	5,843	-7.9	-27.5	27	7.8	29	5,300	-31.0	-37.4	28	4.2	31	5,690	-16.1	-28.6	27	15.9	31	5,598	-19.1	-26.9	27	14.1
450	30	6,503	-20.9	-33.3	26	14.1	30	6,656	-13.6	-31.9	27	9.6	29	6,040	-35.8	-42.2	28	5.6	31	6,476	-21.3	-34.4	27	17.1	31	6,374	-24.3	-32.7	27	16.3
400	30	7,362	-27.3	-38.9	26	15.5	30	7,540	-20.2	-37.2	27	13.4	29	6,850	-41.2	-42.2	28	8.0	31	7,334	-27.5	-39.9	27	18.4	31	7,222	-30.6	-37.5	27	18.0
350	30	8,313	-34.3	-44.0	26	16.2	30	8,518	-27.3	-42.8	27	17.5	29	7,748	-47.3		27	9.6	31	8,284	-34.6	-45.2	27	20.5	31	8,158	-38.0	-41.8	27	20.6
300	30	9,370	-42.6	-49.1	26	18.0	30	9,607	-35.3	-49.6	27	22.6	29	8,751	-53.0		27	11.0	31	9,340	-42.3	-47.6	27	23.2	31	9,200	-45.5		27	24.1
250	30	10,580	-50.6		27	19.4	30	10,853	-44.7		27	27.0	29	9,919	-54.9		26	10.2	31	10,553	-49.9		27	27.2	31	10,395	-52.9		27	25.2
200	29	12,004	-57.8		26	20.8	30	12,310	-55.7		27	29.8	29	11,353	-52.6		27	10.9	31	11,990	-55.9		27	27.4	31	11,819	-56.6		27	22.7
175	27	12,846	-59.4		26	21.3	30	13,149	-61.3		27	28.0	29	12,217	-51.8		27	10.0	31	12,837	-57.6		27	25.6	31	12,666	-56.7		27	21.4
150	27	13,806	-61.6		27	20.1	30	14,093	-66.9		27	23.9	29	13,218	-51.6		27	10.9	31	13,806	-59.5		27	22.0	31	13,644	-56.4		27	17.5
125	27	14,932	-63.2		26	17.9	30	15,183	-70.2		26	18.1	29	14,401	-51.7		27	10.7	31	14,943	-61.2		27	17.5	31	14,799	-57.5		27	16.0
100	27	16,298	-64.5		26	13.7	30	16,503	-72.1		27	9.8	29	15,847	-52.0		27	11.4	31	16,324	-62.1		27	14.4	30	16,199	-58.0		27	12.5
80	26	17,665	-62.2		27	8.0	30	17,820	-69.8		28	3.6	29	17,291	-52.7		27	12.3	31	17,710	-60.4		27	10.2	30	17,604	-58.5		27	9.0
70	25	18,489	-61.2		27	6.1	29	18,621	-67.0		30	1.1	29	18,152	-53.1		27	13.5	31	18,544	-59.8		27	9.6	30	18,446	-57.9		28	7.1
60	25	19,448	-60.6		27	4.7	29	19,559	-64.0		11	1.3	29	19,145	-53.5		27	13.9	31	19,510	-58.7		27	6.8	30	19,420	-57.3		28	6.3
50	25	20,590	-58.4		27	4.0	29	20,686	-60.4		10	3.1	29	20,316	-54.5		27	14.9	31	20,658	-57.8		27	5.7	29	20,569	-57.4		28	5.2
40	24	21,995	-57.2		26	2.9	28	22,087	-57.7		09	4.2	27	21,745	-54.9		27	15.8	31	22,071	-56.3		28	4.3	28	21,980	-56.9		29	4.6
30	22	23,827	-54.8		27	3.7	26	23,921	-54.6		09	6.0	27	23,582	-55.7		27	17.8	31	23,908	-54.2		28	4.0	27	23,802	-55.7		30	4.5
25	21	24,992	-53.6		27	3.9	26	25,094	-52.5		09	7.0	27	24,744	-55.8		28	19.0	30	25,075	-53.5		28	5.0	26	24,973	-54.9		31	4.3
20	17	26,424	-52.1		27	5.3	25	26,546	-49.7		08	7.5	25	26,161	-55.8		28	21.5	25	26,512	-52.3		28	6.3	21	26,411	-53.7		30	5.7
15	13	28,285	-49.9		27	8.7	18	28,440	-46.4		10	4.2	19	27,994	-55.4		28	24.0	15	28,394	-50.0		27	6.1	16	28,245	-53.5		29	6.6
10							6	31,143	-42.3				5	30,565	-55.9				7	31,037	-47.8				8	30,901	-51.2			

RAWINSONDE DATA

Average monthly values

OCTOBER 1975

GRAND JUNCTION, CO
854 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	1,472	5.9	-6.5	12	2.5
1000						
950						
900						
850	27	1,536	8.2	-7.2	12	3.3
800	31	2,011	9.3	-6.9	16	4.2
750	31	2,543	6.4	-9.3	21	3.7
700	31	3,165	2.4	-11.9	24	5.4
650	31	3,770	-1.5	-14.6	25	6.7
600	31	4,332	-5.7	-18.3	25	8.9
550	31	5,009	-9.9	-24.4	25	10.6
500	31	5,737	-14.9	-29.5	25	12.1
450	31	6,527	-20.4	-33.6	26	13.5
400	31	7,387	-26.9	-38.7	26	15.4
350	31	8,340	-33.8	-45.1	26	16.4
300	31	9,399	-41.9	-52.2	26	17.4
250	31	10,613	-50.1		27	16.8
200	31	12,047	-56.7		27	18.6
175	31	12,888	-59.4		27	20.5
150	31	13,847	-61.5		27	19.6
125	31	14,972	-63.6		27	16.8
100	31	16,335	-65.2		27	13.4
80	30	17,699	-63.5		27	9.5
70	30	18,522	-62.2		27	7.5
60	29	19,482	-59.7		27	5.5
50	29	20,625	-58.8		27	4.1
40	28	22,028	-57.0		26	3.8
30	27	23,858	-55.1		26	3.5
25	25	25,026	-54.1		26	4.5
20	22	26,464	-52.2		27	3.9
15	17	28,333	-50.0		27	5.3
10	9	30,980	-48.0			
7						

• GREAT FALLS, MT
886 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	1,118	5.0	-1.3	[illegible]	3.5
1000						
950						
900						
850	31	1,455	6.0	-4.6	24	7.9
800	31	1,949	3.2	-6.9	25	7.8
750	31	2,469	-.3	-9.5	26	9.7
700	31	3,017	-3.7	-13.6	26	11.1
650	31	3,599	-6.8	-15.5	26	13.7
600	31	4,221	-10.1	-19.8	27	14.0
550	31	4,886	-14.2	-23.0	27	15.0
500	31	5,603	-19.1	-27.2	27	16.3
450	31	6,379	-24.4	-32.8	26	17.3
400	31	7,226	-30.6	-36.3	26	18.7
350	31	8,164	-37.8	-42.3	27	20.1
300	31	9,206	-45.7		27	21.8
250	31	10,400	-53.3		27	23.3
200	31	11,819	-57.6		27	24.8
175	29	12,666	-57.5		27	21.2
150	29	13,640	-57.9		26	19.3
125	29	14,791	-57.4		26	16.4
100	28	16,203	-58.9		26	12.0
80	24	17,598	-58.2		26	10.0
70	20	18,445	-58.2		25	8.1
60	18	19,416	-57.6		26	5.5
50	16	20,583	-57.7		27	6.4
40	16	21,994	-57.2		27	4.2
30	14	23,830	-55.1		28	4.3
25	11	24,973	-54.3		29	4.2
20	8	26,406	-54.9			
15						
10						
7						

GREEN BAY, WI
99[illegible] MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	210	6.[illegible]	2.7	24	1.8
1000						
950	31	565	8.6	.6	25	5.1
900	31	1,012	7.5	-2.2	26	7.4
850	31	1,481	5.4	-4.8	27	7.9
800	31	1,974	3.3	-7.8	27	8.2
750	31	2,496	.9	-11.2	27	9.9
700	31	3,047	-1.7	-15.8	27	11.3
650	31	3,634	-4.8	-20.3	27	12.6
600	31	4,259	-8.4	-22.7	27	14.1
550	31	4,930	-11.9	-26.5	27	15.2
500	31	5,653	-16.9	-31.0	28	16.3
450	31	6,435	-22.2	-36.3	27	18.1
400	31	7,290	-28.4	-42.2	27	20.5
350	31	8,237	-35.5	-46.4	28	23.0
300	31	9,289	-43.4		28	25.5
250	31	10,493	-51.9		28	26.4
200	31	11,921	-56.5		27	25.9
175	31	12,766	-57.8		27	24.2
150	31	13,735	-59.1		27	22.0
125	31	14,874	-60.6		27	18.4
100	30	16,256	-61.5		26	13.9
80	28	17,649	-60.4		27	10.1
70	28	18,483	-59.1		27	8.0
60	27	19,448	-58.4		27	7.0
50	27	20,597	-57.6		27	7.2
40	27	22,010	-56.5		27	6.0
30	27	23,843	-54.8		28	6.7
25	27	25,012	-53.9		27	6.7
20	25	26,447	-52.5		27	7.4
15	24	28,323	-50.5		27	8.7
10	12	30,920	-48.6			
7						

GREENSBORO, NC
989 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	275	11.5	10.7	33	.5
1000						
950	31	610	14.9	6.3	32	2.2
900	31	1,067	13.5	2.6	30	3.4
850	31	1,547	11.5	-2.0	29	4.5
800	31	2,052	9.8	-5.3	28	4.6
750	31	2,586	7.1	-8.8	28	5.3
700	31	3,150	4.3	-12.6	27	6.1
650	31	3,750	1.6	-15.7	26	6.9
600	31	4,391	-2.0	-19.0	26	8.2
550	31	5,077	-6.2	-23.7	26	9.9
500	31	5,816	-11.0	-28.2	26	10.9
450	30	6,618	-16.8	-31.7	26	11.8
400	29	7,490	-22.7	-36.6	26	14.3
350	29	8,459	-29.9	-43.4	25	16.0
300	29	9,535	-38.3	-48.6	25	17.4
250	29	10,764	-47.6		25	20.4
200	29	12,206	-57.1		26	22.1
175	29	13,043	-61.4		26	21.2
150	29	13,992	-64.4		26	18.7
125	29	15,100	-66.9		26	15.2
100	28	16,443	-67.7		27	10.9
80	28	17,790	-65.9		27	6.7
70	28	18,605	-64.1		28	5.6
60	28	19,554	-62.2		29	3.5
50	28	20,689	-59.6		32	1.8
40	28	22,092	-57.0		33	1.3
30	28	23,929	-53.6		36	1.1
25	27	25,106	-52.1		32	1.2
20	26	26,553	-50.2		27	3.2
15	20	28,425	-48.1		28	7.9
10	14	31,125	-45.2		27	17.8
7	7	33,544	-43.1			

• GUAM, MARIANA IS.
[illegible]98 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	111	24.0	[illegible]	[illegible]	[illegible]
1000						
950	31	547	23.4	21.6	[illegible]	6.0
900	31	1,019	20.8	17.[illegible]	[illegible]	6.5
850	31	1,512	18.1	13.9	[illegible]	5.9
800	31	2,030	15.3	13.9	1[illegible]	5.4
750	31	2,576	12.6	6.[illegible]	[illegible]	5.3
700	31	3,153	9.5	2.4	[illegible]	5.4
650	31	3,766	6.2	-2.[illegible]	09	5.4
600	31	4,418	2.4	-8.[illegible]	09	5.1
550	31	5,116	-1.5	-12.4	08	4.9
500	31	5,870	-5.6	-18.6	08	5.2
450	31	6,689	-10.7	-23.[illegible]	08	4.7
400	31	7,584	-16.7	-28.3	09	4.3
350	30	8,577	-23.6	-35.0	09	2.7
300	30	9,682	-32.1	-43.0	06	2.6
250	30	10,942	-42.4		04	2.9
200	29	12,408	-54.9		36	3.8
175	29	13,249	-61.8		02	4.4
150	29	14,186	-69.2		03	4.1
125	29	15,257	-75.6		05	5.1
100	25	16,530	-80.2		06	8.3
80	21	17,802	-75.5		08	9.9
70	20	18,585	-71.5		09	9.4
60	20	19,504	-68.2		09	8.3
50	20	20,614	-63.2		09	7.0
40	17	21,997	-59.1		09	5.0
30	17	23,817	-54.6		08	5.3
25	17	24,991	-51.6		09	5.1
20	15	26,450	-49.4		08	5.3
15	14	28,350	-45.6		07	8.7
10						
7						

HILO, HI
1017 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	10	21.1	18.7	24	1.8
1000	31	154	21.3	17.5	25	1.1
950	31	598	18.3	15.8	09	2.1
900	31	1,060	15.5	13.4	08	3.9
850	31	1,544	12.6	10.0	08	3.4
800	31	2,052	10.6	3.6	08	3.7
750	31	2,589	9.9	-6.1	08	4.2
700	31	3,160	7.6	-11.3	09	4.4
650	31	3,767	4.3	-14.8	10	4.3
600	31	4,413	.6	-17.4	10	4.0
550	31	5,105	-3.8	-20.4	12	3.4
500	31	5,850	-8.9	-24.3	12	3.0
450	31	6,658	-14.2	-28.2	13	2.3
400	31	7,541	-20.6	-33.9	17	1.8
350	30	8,515	-28.4	-40.5	23	2.9
300	29	9,601	-36.9	-48.4	25	5.2
250	29	10,837	-46.6		26	9.1
200	29	12,280	-57.8		26	11.8
175	29	13,112	-63.4		26	13.2
150	29	14,046	-68.1		26	9.9
125	29	15,134	-70.8		25	5.2
100	29	16,453	-71.4		24	1.8
80	28	17,768	-71.8		08	2.4
70	27	18,559	-69.7		09	5.1
60	26	19,485	-66.5		10	5.8
50	26	20,599	-62.9		09	7.1
40	26	21,982	-60.2		09	8.5
30	25	23,797	-55.4		09	10.1
25	24	24,970	-53.1		09	10.3
20	23	26,418	-49.9		09	11.0
15	22	28,315	-46.6		10	10.6
10	11	31,028	-41.9		09	13.0
7						

HUNTINGTON, WV
991 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	246	10.1	7.7	21	.7
1000						
950	31	603	13.3	5.4	24	3.2
900	31	1,057	11.6	2.2	26	4.6
850	31	1,534	9.3	-1.4	27	5.5
800	31	2,035	7.4	-4.6	26	6.3
750	31	2,564	5.1	-8.3	26	7.4
700	31	3,125	2.6	-14.2	26	8.2
650	31	3,721	-.5	-16.1	26	9.0
600	31	4,357	-3.8	-19.4	26	11.0
550	31	5,039	-7.5	-22.7	26	12.4
500	31	5,774	-12.4	-27.2	26	13.3
450	31	6,571	-17.9	-32.5	26	15.8
400	31	7,441	-24.3	-37.1	26	17.3
350	31	8,404	-31.2	-43.5	26	18.7
300	30	9,475	-39.[illegible]	-48.3	26	22.3
250	30	10,702	-47.8		25	25.6
200	30	12,145	-56.4		26	26.3
175	30	12,987	-59.5		26	23.2
150	30	13,945	-62.0		26	20.6
125	30	15,065	-64.6		26	18.3
100	30	16,424	-65.4		26	12.8
80	30	17,788	-63.5		26	9.1
70	30	18,611	-62.1		27	7.3
60	30	19,569	-60.2		27	5.3
50	28	20,710	-58.5		29	3.3
40	27	22,124	-56.6		30	2.1
30	27	23,964	-53.3		29	2.6
25	26	25,141	-51.5		29	3.4
20	26	26,598	-49.6		28	5.0
15	20	28,492	-48.2		27	8.2
10						
7						

• INTERNATIONAL FALLS, MN
971 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	359	3.9	1.1	17	1.1
1000						
950	31	532	5.5	1.0	20	2.8
900	31	974	5.4	-2.3	24	4.6
850	31	1,440	3.6	-5.2	26	4.8
800	31	1,930	1.2	-8.1	27	5.8
750	31	2,447	-1.6	-11.1	27	7.6
700	31	2,994	-4.4	-16.7	27	10.5
650	31	3,574	-7.5	-18.7	27	11.4
600	31	4,194	-11.1	-23.0	27	13.4
550	31	4,857	-15.0	-26.4	27	15.3
500	31	5,571	-19.5	-31.5	27	17.4
450	31	6,346	-24.9	-35.4	27	19.5
400	31	7,192	-30.9	-40.8	27	20.7
350	31	8,129	-37.8	-46.2	27	22.9
300	31	9,171	-45.5		27	24.0
250	31	10,369	-52.1		27	25.2
200	31	11,801	-55.8		27	25.5
175	31	12,650	-55.9		27	23.4
150	31	13,629	-56.4		27	21.9
125	31	14,785	-57.3		27	17.7
100	30	16,196	-58.7		27	13.4
80	30	17,599	-58.6		27	10.5
70	30	18,440	-57.9		27	9.1
60	30	19,412	-57.7		28	7.9
50	29	20,562	-57.4		27	7.1
40	29	21,974	-56.9		28	6.8
30	28	23,798	-55.6		27	6.6
25	25	24,986	-54.6		28	7.5
20	23	26,418	-53.4		28	8.1
15	21	28,288	-51.5		28	9.5
10	18	30,914	-49.7		27	12.9
7	6	33,123	-49.4			

• ISLE DEL CISNE
1011 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	10	25.7	23.0	09	2.9
1000	31	104	25.8	23.2	09	3.5
950	31	555	22.7	20.3	09	5.8
900	31	1,025	19.5	16.5	10	6.4
850	31	1,516	16.4	13.0	10	6.4
800	31	2,031	13.8	10.0	10	5.9
750	31	2,574	10.9	6.5	11	5.6
700	31	3,147	7.8	1.9	11	5.3
650	31	3,756	4.9	-2.6	12	5.2
600	31	4,405	1.3	-6.1	11	4.2
550	31	5,101	-2.5	-11.3	10	3.4
500	31	5,852	-6.8	-15.8	09	2.0
450	31	6,668	-11.6	-21.4	06	1.7
400	31	7,560	-17.6	-28.6	01	2.1
350	31	8,549	-24.6	-35.5	35	3.2
300	31	9,650	-32.9	-44.6	34	3.9
250	31	10,906	-43.2		33	5.7
200	30	12,368	-55.6		32	6.3
175	30	13,206	-62.3		32	6.9
150	29	14,143	-68.9		32	6.2
125	29	15,219	-74.5		33	4.3
100	28	16,511	-75.5		36	1.9
80	27	17,810	-72.6		07	3.9
70	27	18,600	-70.0		08	6.0
60	27	19,527	-66.3		08	7.7
50	27	20,643	-62.2		09	9.0
40	25	22,036	-58.1		09	8.8
30	24	23,867	-53.6		09	8.7
25	21	25,047	-50.6		09	8.7
20	19	26,509	-47.0		09	10.2
15	15	28,448	-43.0		08	10.2
10						
7						

JACKSON, MS
1007 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	100	14.0	12.8	08	.6
1000	30	166	15.8	13.1	12	1.0
950	31	600	16.4	10.3	14	1.6
900	31	1,060	14.6	6.7	17	1.0
850	31	1,542	12.6	2.0	24	1.1
800	31	2,049	10.0	-3.6	23	2.0
750	31	2,582	7.4	-7.1	25	2.7
700	31	3,146	5.0	-11.6	25	3.4
650	31	3,749	2.0	-16.4	26	4.6
600	31	4,390	-1.8	-20.0	26	4.8
550	31	5,077	-6.2	-23.1	25	5.5
500	31	5,815	-11.5	-28.3	24	6.7
450	31	6,614	-17.0	-33.3	24	7.5
400	31	7,488	-23.1	-37.8	24	9.3
350	31	8,456	-29.9	-43.3	25	12.1
300	31	9,534	-38.0	-49.3	25	15.0
250	30	10,761	-47.2		25	17.7
200	30	12,208	-56.2		26	21.2
175	30	13,049	-60.0		26	18.9
150	30	14,003	-63.6		26	19.9
125	29	15,111	-67.2		27	15.5
100	29	16,448	-69.4		27	10.7
80	29	17,785	-67.2		26	3.5
70	29	18,595	-65.1		24	2.5
60	29	19,539	-63.3		25	.9
50	27	20,667	-60.7		07	1.2
40	26	22,065	-57.4		07	2.1
30	24	23,897	-53.5		05	2.8
25	24	25,074	-51.6		05	2.4
20	24	26,533	-48.5		03	1.9
15	18	28,429	-45.6		29	2.1
10	11	31,190	-41.2			
7						

JOHN F. KENNEDY INT. AP NY
1019 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	5	13.4	7.4	34	1.6
1000	31	164	12.8	7.1	35	1.7
950	31	594	11.6	4.4	34	2.4
900	31	1,046	10.0	2.9	30	2.8
850	31	1,519	8.2	-.1	28	4.4
800	31	2,019	6.7	-4.3	27	6.1
750	31	2,547	4.8	-8.3	27	7.6
700	31	3,107	1.9	-11.5	27	9.0
650	31	3,702	-1.3	-14.6	27	11.1
600	31	4,336	-4.8	-18.7	27	12.7
550	31	5,015	-9.0	-22.2	26	14.4
500	31	5,746	-13.5	-27.1	26	17.0
450	31	6,540	-18.9	-32.1	26	18.4
400	30	7,406	-25.2	-37.9	26	20.5
350	30	8,365	-32.1	-44.3	26	22.7
300	30	9,433	-40.2	-47.9	26	25.1
250	30	10,653	-48.8		26	28.7
200	30	12,091	-57.3		26	32.2
175	30	12,930	-59.8		26	29.5
150	30	13,889	-61.6		26	26.2
125	29	15,015	-64.1		27	20.9
100	29	16,376	-64.8		27	15.5
80	28	17,742	-62.8		27	10.0
70	26	18,562	-61.6		27	7.5
60	24	19,521	-60.3		28	5.6
50	24	20,663	-58.7		30	3.8
40	22	22,072	-56.3		31	2.6
30	20	23,910	-54.1		31	3.1
25	19	25,073	-53.0		25	.8
20	18	26,508	-51.8		29	3.7
15	11	28,388	-48.8			
10						

JOHNSTON IS., PACIFIC AREA
1014 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	3	26.1	22.1	09	7.6
1000	31	126	24.6	20.7	09	8.3
950	31	575	21.5	18.7	09	9.7
900	31	1,042	18.[illegible]	14.3	09	9.9
850	31	1,530	15.2	11.1	09	9.5
800	31	2,042	13.0	4.5	09	8.5
750	31	2,584	11.0	-1.9	09	6.8
700	31	3,156	8.2	-7.7	09	5.8
650	31	3,765	5.1	-12.9	09	5.5
600	31	4,413	1.1	-16.[illegible]	09	5.3
550	31	5,107	-3.[illegible]	-20.4	09	4.7
500	31	5,855	-7.8	-24.6	09	4.3
450	31	6,667	-13.0	-28.[illegible]	08	4.[illegible]
400	31	7,554	-19.2	-32.2	07	2.4
350	31	8,536	-26.5	-37.8	08	1.0
300	31	9,628	-35.1	-46.[illegible]	28	2.3
250	31	10,872	-45.2		25	4.9
200	31	12,323	-56.9		25	8.8
175	31	13,157	-62.9		27	9.4
150	31	14,093	-68.7		28	8.0
125	31	15,173	-72.8		28	6.3
100	31	16,479	-73.3		[illegible]	1.3
80	31	17,790	-71.6		08	3.3
70	31	18,581	-70.2		09	5.3
60	31	19,505	-66.9		09	6.5
50	31	20,616	-63.4		08	7.2
40	31	22,000	-59.6		09	7.5
30	31	23,820	-54.8		09	7.7
25	29	24,993	-52.7		09	8.7
20	29	26,445	-49.7		09	9.3
15	27	28,337	-46.0		09	11.0
10	20	31,059	-40.7		08	11.2

KEY WEST, FL
1015 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	3	25.4	22.2	08	2.2
1000	30	136	25.0	21.3	08	3.5
950	30	586	21.8	18.3	09	4.7
900	30	1,054	18.9	14.3	11	4.0
850	30	1,544	15.8	10.2	12	3.2
800	30	2,057	13.0	6.3	12	2.5
750	30	2,597	10.2	1.2	12	2.0
700	30	3,169	7.6	-4.7	12	1.7
650	30	3,776	4.4	-9.1	09	1.2
600	30	4,424	.8	-13.2	08	.5
550	30	5,118	-3.4	-17.4	10	.6
500	30	5,864	-8.6	-22.1	22	.2
450	30	6,673	-14.0	-28.8	25	1.1
400	30	7,557	-19.8	-34.2	27	2.5
350	30	8,537	-26.6	-39.6	30	4.0
300	30	9,629	-34.9	-47.0	31	6.2
250	30	10,875	-44.6		30	7.7
200	30	12,333	-55.6		30	9.6
175	29	13,173	-61.5		30	9.2
150	29	14,115	-67.5		30	8.4
125	28	15,197	-72.8		29	5.6
100	28	16,498	-73.9		32	3.1
80	28	17,808	-71.1		05	1.3
70	28	18,604	-68.3		09	3.1
60	28	19,535	-65.5		08	5.0
50	28	20,656	-61.4		09	6.8
40	27	22,051	-58.1		09	8.6
30	27	23,883	-53.1		08	8.9
25	25	25,057	-51.3		08	8.5
20	22	26,523	-47.9		08	8.8
15	21	28,440	-43.6		08	8.7
10	15	31,195	-38.6		1[illegible]	7.9

KING SALMON, AK
1002 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	15	.1	-2.6	36	.5
1000	15	113	-1.6	-6.0	36	3.7
950	30	439	.4	-4.7	01	2.8
900	30	872	-1.3	-7.0	35	2.5
850	30	1,326	-3.0	-8.8	32	2.8
800	30	1,805	-4.9	-11.8	32	3.2
750	30	2,310	-7.8	-17.1	31	3.5
700	30	2,844	-10.7	-21.3	30	3.5
650	30	3,411	-13.8	-23.9	29	3.4
600	30	4,015	-17.4	-27.5	29	3.5
550	30	4,661	-21.6	-31.4	28	4.5
500	30	5,358	-26.0	-35.8	28	5.2
450	30	6,113	-31.1	-38.6	28	6.6
400	30	6,938	-37.0	-44.5	28	7.8
350	30	7,852	-43.2		28	9.[illegible]
300	30	8,872	-50.2		29	10.7
250	30	10,051	-53.4		28	13.6
200	30	11,494	-51.6		28	15.[illegible]
175	30	12,362	-51.1		28	15.3
150	30	13,365	-51.1		28	14.2
125	30	14,549	-52.0		28	13.3
100	30	15,993	-52.5		27	13.2
80	30	17,436	-52.5		27	11.6
70	30	18,299	-53.0		27	11.[illegible]
60	30	19,293	-53.3		27	11.[illegible]
50	29	20,469	-53.6		27	11.4
40	28	21,904	-53.5		27	11.3
30	27	23,757	-52.5		28	12.0
25	25	24,928	-52.8		28	11.8
20	19	26,381	-5[illegible]		28	12.8
15	8	28,290	-51.4			
10						

KOROR, CAROLINE IS.
◆ 1006 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	30	27.7	24.4	11	.7
1000	31	85	26.6	23.1	12	.8
950	31	537	23.3	20.2	13	1.7
900	31	1,009	20.6	15.9	12	2.2
850	31	1,501	17.7	11.7	11	2.4
800	31	2,019	15.4	9.4	1[illegible]	2.9
750	31	2,565	12.5	5.3	1[illegible]	3.3
700	31	3,141	9.2	[illegible].5	1[illegible]	3.5
650	31	3,753	6.1	-.8	1[illegible]	3.9
600	31	4,405	2.5	-5.0	1[illegible]	4.4
550	31	5,105	-1.3	-9.2	10	4.7
500	31	5,859	-5.3	-14.0	10	5.2
450	31	6,680	-9.9	-19.4	09	4.6
400	31	7,579	-15.5	-25.6	09	4.5
350	31	8,577	-22.3	-33.2	09	[illegible]
300	31	9,689	-30.5	-42.1	09	5.3
250	31	10,957	-40.9	-48.4	08	7.5
200	31	12,434	-53.5		06	8.4
175	31	13,279	-60.5		[illegible]	8.5
150	31	14,222	-68.3		[illegible]	[illegible]
125	31	15,295	-76.1		[illegible]	[illegible]
100	31	16,563	-81.0		04	[illegible]
80	31	17,832	-75.0		05	[illegible]
70	31	18,620	-68.0		04	5.6
60	31	19,553	-64.8		08	1.1
50	29	20,676	-61.5		31	1.1
40	28	22,072	[illegible]		27	1.6
30	26	23,900	-54.3		25	2.3
25	24	25,077	-51.4		25	[illegible]
20	22	26,547	[illegible]		24	2.2
15	19	28,461	-44.5		21	2.1
10	5	31,235	-42.1			

RAWINSONDE DATA

Average monthly values

OCTOBER 1975

KOTZEBUE, AK
1010 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	27	5	-6.4	-9.2	07	2.5
1000	22	114	-5.9	-10.6	05	1.7
950	27	483	-6.9	-10.6	06	1.2
900	27	904	-8.3	-12.0	36	1.0
850	27	1,347	-9.2	-15.7	29	.8
800	27	1,814	-11.2	-17.8	27	1.6
750	27	2,308	-13.7	-20.3	27	2.4
700	27	2,829	-16.6	-25.1	27	3.3
650	27	3,383	-19.6	-27.5	27	4.0
600	27	3,973	-23.5	-31.9	27	5.1
550	27	4,604	-27.7	-35.8	27	6.2
500	27	5,283	-32.3	-40.9	25	7.5
450	27	6,018	-37.3	-44.1	26	9.2
400	27	6,823	-43.0	-43.9	25	12.3
350	27	7,713	-49.2		25	13.4
300	26	8,707	-54.4		25	15.5
250	26	9,870	-54.7		25	15.3
200	2[illegible]	11,309	-51.6		26	13.1
175	25	12,176	-51.5		26	12.6
150	24	13,182	-51.3		26	13.2
125	24	14,366	-51.8		26	12.6
100	23	15,819	-52.3		26	12.3
80	23	17,259	-53.3		27	14.2
70	23	18,118	-53.6		26	14.3
60	22	19,113	-54.1		27	15.8
50	22	20,282	-54.5		27	17.4
40	22	21,709	-55.2		27	18.0
30	19	23,549	-55.0		27	20.0
25	17	24,720	-55.2		27	22.0
20	15	26,183	-55.1		27	21.7
15	10	28,022	-54.9			
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KWAJALEIN, MARSHALL IS.
1011 MB

LAKE CHARLES, LA
1018 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	5	15.8	14.9	05	1.6
1000	31	153	18.6	15.5	09	1.9
950	31	594	17.4	11.3	14	2.9
900	31	1,055	15.5	5.4	16	2.0
850	31	1,538	13.0	.7	21	1.2
800	31	2,046	11.2	-4.3	28	1.3
750	31	2,582	8.5	-6.7	28	2.4
700	31	3,149	5.7	-13.0	27	3.1
650	31	3,752	2.2	-15.5	26	3.0
600	31	4,393	-1.6	-19.3	26	3.8
550	31	5,080	-5.9	-23.6	26	4.8
500	31	5,820	-11.0	-27.7	27	5.7
450	31	6,620	-16.7	-32.4	27	6.5
400	31	7,494	-23.0	-37.3	27	8.4
350	31	8,462	-29.8	-44.6	27	11.5
300	31	9,540	-37.5	-50.3	26	15.7
250	31	10,776	-46.0		27	18.7
200	30	12,231	-55.6		27	20.3
175	30	13,073	-59.9		27	19.0
150	30	14,025	-64.4		27	18.2
125	30	15,128	-68.4		27	14.9
100	30	16,459	-70.2		27	8.8
80	29	17,789	-68.6		30	2.9
70	29	18,594	-66.1		15	1.0
60	29	19,536	-63.2		11	1.0
50	28	20,669	-60.0		08	2.4
40	28	22,071	-57.2		08	3.7
30	27	23,909	-52.9		07	5.0
25	27	25,091	-50.8		07	5.4
20	19	26,553	-48.5		08	4.1
15	16	28,468	-44.7		07	3.2
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LANDER, WY
828 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	1,697	4.1	-5.1	22	1.1
1000						
950						
900						
850						
800	31	1,979	7.0	-6.5	22	.9
750	31	2,507	4.6	-10.0	26	3.4
700	31	3,066	.9	-12.8	27	7.1
650	31	3,658	-2.7	-15.6	27	11.8
600	31	4,287	-7.1	-18.7	27	12.9
550	31	4,960	-11.4	-23.0	27	13.4
500	31	5,685	-16.2	-28.1	26	15.7
450	31	6,469	-21.7	-32.5	26	16.5
400	31	7,325	-28.4	-38.3	26	17.6
350	31	8,271	-35.7	-43.9	26	19.8
300	31	9,323	-43.6		26	20.5
250	31	10,528	-51.4		26	21.5
200	31	11,952	-58.3		27	20.9
175	31	12,790	-59.6		26	21.9
150	31	13,753	-60.0		26	19.8
125	31	14,886	-61.7		27	16.1
100	31	16,266	-62.2		27	11.6
80	31	17,645	-62.1		27	8.0
70	31	18,473	-60.6		28	5.9
60	31	19,436	-59.5		27	5.3
50	31	20,579	-58.4		27	4.8
40	28	21,986	-57.7		26	5.0
30	24	23,801	-56.0		28	5.1
25	23	24,969	-54.9		28	5.4
20	21	26,403	-53.2		28	5.9
15	17	28,245	-52.5		28	9.5
10	8	30,862	-52.0			

* LIHUE KAUAI, HI
1014 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	36	23.9	20.1	07	4.4
1000	31	161	22.9	18.3	07	5.5
950	31	607	19.2	16.3	07	7.0
900	31	1,070	16.1	12.8	08	7.4
850	31	1,554	13.1	8.6	08	7.4
800	31	2,064	11.4	.2	09	7.1
750	31	2,602	10.0	-8.2	09	6.9
700	31	3,173	7.7	-11.6	10	5.8
650	31	3,780	4.0	-13.8	10	5.5
600	31	4,425	-.3	-16.7	11	4.4
550	31	5,116	-4.7	-21.4	11	3.6
500	31	5,859	-9.7	-26.6	11	3.0
450	31	6,663	-15.3	-31.9	12	2.7
400	31	7,542	-21.6	-37.3	16	1.7
350	31	8,515	-28.9	-43.6	23	1.6
300	31	9,596	-37.3	-51.1	26	3.4
250	31	10,830	-46.8		27	5.9
200	31	12,276	-57.1		27	8.2
175	31	13,111	-62.1		27	7.2
150	31	14,053	-66.9		27	5.2
125	31	15,145	-69.9		28	2.5
100	31	16,469	-70.7		22	.2
80	31	17,791	-70.6		08	1.2
70	31	18,586	-69.2		08	3.9
60	31	19,514	-66.1		09	5.8
50	31	20,626	-62.7		09	7.7
40	31	22,015	-59.4		09	8.9
30	29	23,837	-55.1		09	9.9
25	28	25,009	-52.7		09	10.3
20	27	26,457	-49.7		10	9.7
15	25	28,355	-46.1		09	9.5
10	18	31,074	-41.5		07	7.4

LITTLE ROCK, AR
1011 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	[illegible]9	12.0	9.7	34	.4
1000	31	166	14.6	10.0	27	.2
950	31	602	15.2	7.4	23	2.4
900	31	1,059	13.2	4.6	23	2.5
850	31	1,539	11.4	-.3	25	2.7
800	31	2,043	9.2	-3.5	26	2.6
750	31	2,576	6.9	-8.7	26	2.5
700	31	3,140	4.1	-12.9	26	2.8
650	31	3,739	.7	-17.9	27	3.6
600	31	4,377	-3.2	-22.0	28	4.4
550	31	5,060	-7.4	-25.4	27	5.6
500	31	5,795	-12.3	-29.2	27	6.6
450	31	6,592	-17.7	-33.9	27	7.0
400	31	7,462	-24.3	-39.3	26	8.0
350	31	8,424	-31.5	-45.3	27	9.6
300	31	9,493	-40.0	-50.3	27	11.7
250	30	10,712	-48.4		27	12.6
200	30	12,154	-56.3		27	17.4
175	30	12,996	-59.7		27	17.6
150	30	13,952	-62.8		27	15.7
125	30	15,069	-65.5		27	15.3
100	30	16,419	-67.5		27	9.9
80	30	17,769	-65.7		27	6.4
70	30	18,585	-63.4		26	4.6
60	30	19,536	-61.7		25	2.2
50	29	20,673	-59.5		27	.2
40	29	22,079	-56.9		35	.7
30	25	23,910	-53.6		04	1.5
25	25	25,087	-51.7		02	1.2
20	25	26,543	-49.2		29	1.6
15	23	28,442	-46.4		28	4.3
10	18	31,160	-43.6		27	9.5

LONGVIEW, TX
1005 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	124	14.1	12.8	14	.5
1000	28	174	15.4	11.5	15	1.0
950	31	605	16.4	8.3	18	3.3
900	31	1,064	14.4	6.2	20	2.4
850	31	1,546	12.4	1.6	25	2.0
800	31	2,053	10.5	-5.2	27	1.9
750	31	2,588	8.1	-10.3	29	1.8
700	31	3,154	4.9	-14.9	29	2.1
650	31	3,754	1.6	-17.4	29	3.4
600	31	4,394	-2.3	-20.6	28	4.1
550	31	5,079	-6.8	-24.4	27	4.8
500	31	5,816	-11.9	-28.8	28	5.7
450	31	6,614	-17.4	-33.8	28	6.9
400	31	7,485	-23.6	-39.0	28	7.8
350	31	8,451	-30.7	-45.5	28	9.4
300	31	9,523	-39.0	-51.6	28	11.7
250	31	10,751	-47.1		27	16.8
200	31	12,200	-55.8		27	20.2
175	31	13,042	-60.3		28	20.1
150	31	13,993	-64.3		27	18.8
125	31	15,101	-67.3		27	15.9
100	30	16,437	-69.5		27	10.9
80	30	17,773	-67.2		27	4.3
70	30	18,582	-65.4		24	2.3
60	30	19,526	-62.9		21	.7
50	29	20,656	-59.9		10	1.6
40	29	22,059	-57.1		08	2.0
30	27	23,893	-53.4		06	2.8
25	27	25,073	-51.2		06	2.7
20	26	26,537	-47.7		07	1.3
15	17	28,435	-45.4		28	4.6
10	[illegible]	31,149	-41.6			

MCGRATH, AK
994 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	103	-5.1	-7.1	01	1.1
1000	10	163	-7.6	-12.2		
950	31	459	-3.6	-6.8	03	1.6
900	31	886	-4.3	-8.3	07	1.2
850	31	1,336	-5.7	-10.3	11	.6
800	31	1,810	-7.8	-13.4	07	.2
750	31	2,309	-10.4	-16.7	28	.9
700	31	2,838	-12.8	-20.3	27	1.9
650	31	3,400	-16.0	-23.5	25	2.4
600	31	3,999	-19.8	-27.1	26	3.0
550	31	4,640	-23.7	-31.4	27	3.7
500	31	5,330	-28.3	-37.4	26	5.2
450	31	6,077	-33.6	-40.3	27	5.6
400	31	6,894	-39.5	-41.8	27	7.5
350	31	7,798	-45.8		27	9.5
300	31	8,807	-52.0		27	11.6
250	31	9,979	-54.2		27	10.8
200	31	11,417	-51.8		27	11.3
175	31	12,284	-51.2		27	11.9
150	31	13,287	-51.2		27	12.4
125	31	14,471	-51.7		27	12.7
100	31	15,919	-51.5		27	12.4
80	31	17,365	-52.2		27	13.2
70	31	18,229	-52.3		27	12.9
60	31	19,226	-52.8		27	12.9
50	30	20,398	-53.3		27	13.5
40	28	21,824	-53.8		27	15.2
30	27	23,671	-54.0		27	17.4
25	26	24,837	-54.0		28	17.9
20	21	26,275	-53.5		28	16.6
15	11	28,102	-54.9			
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MAJURO, MARSHALL IS.
+ 1011 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	3	27.2	23.4	10	3.3
1000	31	96	26.0	22.5	10	4.3
950	31	548	22.8	20.5	10	6.1
900	31	1,018	20.1	17.5	10	6.5
850	31	1,511	17.3	14.1	10	6.8
800	31	2,028	14.9	11.0	09	6.4
750	31	2,573	12.3	8.0	09	6.7
700	31	3,150	9.5	4.4	09	5.9
650	31	3,763	6.3	.9	10	5.7
600	31	4,415	2.7	-2.4	10	4.8
550	31	5,115	-1.1	-6.3	11	4.7
500	31	5,871	-5.2	-11.5	10	3.3
450	31	6,692	-9.8	-17.0	13	2.0
400	30	7,592	-15.3	-23.4	14	1.3
350	30	8,591	-22.2	-30.8	15	1.2
300	30	9,702	-30.4	-38.8	22	.9
250	30	10,971	-40.8	-47.5	27	3.4
200	30	12,449	-53.4		28	6.7
175	29	13,295	-60.3		29	9.1
150	29	14,239	-67.5		29	12.5
125	29	15,319	-74.2		28	13.8
100	29	16,606	-77.5		28	4.2
80	29	17,901	-71.6		08	3.2
70	29	18,697	-68.4		08	2.8
60	29	19,631	-64.0		35	.3
50	29	20,760	-59.8		26	3.0
40	26	22,165	-56.9		26	5.5
30	24	24,005	-52.6		26	5.1
25	23	25,189	-49.9		27	4.5
20	21	26,662	-46.0		25	3.8
15	16	28,588	-42.9		27	3.9
10						

* MEDFORD, OR
971 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	401	6.9	3.8	16	.2
1000						
950	31	578	8.3	4.7	18	.5
900	31	1,025	7.9	2.0	19	2.1
850	31	1,495	5.8	-2.4	22	4.1
800	31	1,989	3.1	-5.1	24	6.3
750	31	2,510	.8	-9.2	25	8.1
700	31	3,061	-2.3	-11.7	25	9.6
650	31	3,647	-5.2	-14.4	25	11.8
600	31	4,271	-9.2	-19.4	26	12.5
550	31	4,939	-13.1	-23.2	26	13.0
500	31	5,659	-17.8	-27.9	26	14.0
450	31	6,439	-23.2	-33.8	26	15.5
400	31	7,290	-29.6	-39.4	27	16.9
350	31	8,232	-36.6	-44.9	27	17.7
300	30	9,292	-43.8	-51.4	27	19.3
250	30	10,497	-51.0		27	20.9
200	30	11,928	-56.7		27	21.8
175	30	12,771	-58.5		27	20.2
150	30	13,737	-59.9		27	19.5
125	30	14,872	-61.1		27	17.6
100	29	16,260	-61.3		26	12.4
80	29	17,645	-60.8		26	10.1
70	29	18,478	-59.5		26	7.5
60	29	19,446	-58.5		26	5.9
50	27	20,595	-58.1		27	4.1
40	27	22,004	-57.1		28	4.3
30	2[illegible]	23,830	-55.7		29	3.8
25	25	24,995	-54.6		30	4.4
20	24	26,428	-53.0		28	5.0
15	20	28,308	-51.0		26	5.2
10	9	30,938	-48.9			

MERIDA, MEXICO
1013 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	11	21.2	20.8	07	.9
1000	31	122	23.2	21.0	08	3.1
950	31	571	21.7	18.0	10	5.9
900	31	1,039	19.0	14.3	10	5.8
850	31	1,529	16.2	10.6	11	5.0
800	31	2,043	13.7	5.6	11	3.9
750	31	2,585	11.0	1.1	11	3.2
700	31	3,158	8.0	-3.0	11	2.1
650	31	3,767	5.2	-7.0	12	2.5
600	31	4,417	1.5	-9.8	12	2.2
550	31	5,1[illegible]2	-2.7	-13.2	09	1.5
500	31	5,863	-6.8	-20.3	04	1.1
450	31	6,679	-11.3	-25.1	01	1.3
400	31	7,572	-17.5	-30.8	35	1.7
350	30	8,562	-24.6	-36.0	34	3.0
300	30	9,653	-33.0	-45.7	32	4.6
250	30	10,918	-43.3		30	6.2
200	30	12,381	-55.4		30	7.1
175	30	13,220	-61.9		29	6.4
150	30	14,157	-69.1		29	6.7
125	30	15,231	-74.7		29	6.5
100	29	16,517	-77.0		31	4.0
80	29	17,813	-72.9		04	2.7
70	29	18,503	-69.8		08	5.1
60	29	19,530	-66.0		08	7.5
50	29	20,647	-62.2		08	7.8
40	28	22,041	-58.1		08	8.9
30	28	23,871	-53.6		09	9.1
25	28	25,054	-50.3		09	9.3
20	24	26,521	-47.4		09	11.9
15	21	28,435	-43.9		09	11.9
10	9	31,184	-38.4			

MIAMI, FL
1016 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	4	23.6	21.2	04	1.1
1000	31	144	24.4	20.6	07	2.2
950	31	593	21.6	17.8	10	4.2
900	31	1,061	18.7	13.2	11	4.0
850	31	1,549	15.8	8.3	11	3.4
800	31	2,062	12.9	4.6	12	2.7
750	31	2,602	10.1	.5	13	2.0
700	31	3,174	7.2	-4.2	14	1.7
650	31	3,780	4.1	-9.0	12	1.5
600	31	4,427	.5	-14.3	11	1.2
550	31	5,120	-3.4	-18.7	18	.2
500	31	5,867	-8.4	-23.6	23	.9
450	31	6,676	-13.9	-28.8	22	1.2
400	31	7,560	-20.0	-34.8	23	1.4
350	31	8,540	-26.7	-39.6	28	2.8
300	31	9,631	-35.2	-48.1	29	4.3
250	31	10,877	-44.4		30	7.0
200	31	12,337	-55.1		30	10.7
175	31	13,179	-61.0		30	10.0
150	31	14,123	-66.9		30	7.0
125	31	15,211	-71.8		29	5.9
100	31	16,522	-72.5		31	2.2
80	31	17,841	-69.6		04	1.0
70	31	18,643	-66.6		08	2.4
60	30	19,582	-64.0		09	4.3
50	30	20,709	-60.4		09	6.1
40	30	22,109	-57.2		09	7.4
30	29	23,948	-52.6		08	7.8
25	28	25,134	-50.2		08	8.3
20	26	26,600	-47.0		08	8.3
15	21	28,503	-43.8		09	6.5
10						

MIDLAND, TX
918 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	874	11.6	7.2	17	1.7
1000						
950						
900	31	1,036	15.0	6.6	18	3.5
850	31	1,521	15.5	.9	21	4.3
800	31	2,034	13.6	-3.2	25	3.4
750	31	2,574	10.4	-6.2	26	4.1
700	31	3,144	6.6	-9.2	27	4.4
650	31	3,748	2.7	-13.1	27	4.7
600	31	4,391	-1.2	-17.8	26	4.4
550	31	5,079	-5.8	-22.7	25	5.2
500	31	5,819	-10.6	-28.8	26	6.5
450	31	6,621	-16.1	-33.0	27	8.0
400	31	7,496	-22.8	-38.7	27	8.5
350	31	8,464	-30.4	-45.8	27	10.6
300	31	9,538	-38.9	-50.9	28	13.7
250	31	10,766	-47.5		28	18.7
200	31	12,209	-56.8		27	23.1
175	31	13,047	-61.1		27	23.5
150	31	13,995	-64.8		28	21.9
125	31	15,100	-67.6		28	17.9
100	31	16,434	-69.9		28	12.9
80	30	17,764	-68.3		27	5.9
70	30	18,572	-65.0		26	2.7
60	29	19,518	-62.6		23	1.1
50	29	20,648	-60.0		13	.9
40	29	22,051	-57.5		08	2.4
30	29	23,883	-54.0		08	3.0
25	26	25,059	-51.8		08	2.9
20	25	26,517	-49.0		06	1.7
15	22	28,417	-45.5		29	4.1
10	12	31,133	-41.8			

MONETT, MO
968 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	438	10.6	7.6	16	1.8
1000						
950	31	593	13.5	6.6	20	3.1
900	31	1,049	13.1	3.7	23	6.7
850	31	1,528	11.8	-.9	25	6.0
800	31	2,034	9.3	-4.4	26	5.2
750	31	2,566	6.2	-8.8	26	5.3
700	31	3,128	3.6	-12.9	27	5.7
650	31	3,726	.4	-16.0	27	6.5
600	31	4,364	-3.4	-19.9	26	6.9
550	31	5,046	-7.6	-24.5	26	7.5
500	31	5,781	-12.6	-29.2	27	8.4
450	30	6,579	-18.3	-34.5	27	9.6
400	30	7,446	-25.1	-39.4	28	10.4
350	29	8,407	-32.2	-45.3	28	11.4
300	29	9,473	-40.7	-51.4	28	12.1
250	29	10,690	-49.6		28	13.6
200	28	12,124	-57.6		28	16.8
175	28	12,961	-60.6		28	18.3
150	28	13,916	-62.7		27	17.8
125	28	15,033	-65.5		27	16.0
100	28	16,387	-66.3		27	11.8
80	26	17,743	-64.5		26	8.0
70	25	18,569	-62.6		26	4.8
60	25	19,524	-60.9		26	3.4
50	24	20,663	-59.3		28	1.4
40	24	22,070	-57.0		33	1.1
30	23	23,902	-53.8		31	1.3
25	23	25,078	-52.1		32	2.4
20	23	26,530	-49.7		29	3.1
15	20	28,405	-47.4		27	8.4
10	5	31,063	-45.1			

NASHVILLE, TN
999 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	180	12.4	10.4	09	.6
1000	14	204	11.6	9.0	07	1.2
950	31	606	14.3	7.8	24	2.6
900	31	1,061	12.2	5.2	26	3.0
850	31	1,539	9.9	1.8	27	3.4
800	31	2,041	7.9	-1.8	26	4.1
750	31	2,572	5.8	-5.4	27	4.6
700	31	3,134	3.0	-10.0	26	4.9
650	31	3,731	-.1	-13.4	26	6.3
600	31	4,368	-3.3	-18.0	26	8.0
550	31	5,052	-7.6	-22.1	26	9.2
500	31	5,786	-12.9	-26.8	26	10.3
450	31	6,581	-18.1	-32.0	25	10.8
400	31	7,451	-24.4	-37.2	25	11.4
350	31	8,413	-31.4	-43.7	24	14.1
300	31	9,483	-39.6	-48.9	24	17.3
250	31	10,706	-48.5		25	20.9
200	31	12,144	-57.2		26	22.6
175	31	12,982	-60.8		26	21.4
150	31	13,935	-63.1		26	19.1
125	30	15,048	-65.6		26	15.9
100	30	16,398	-67.4		26	11.3
80	29	17,750	-64.8		26	7.3
70	29	18,568	-63.5		26	5.1
60	29	19,520	-61.6		28	3.7
50	28	20,654	-59.8		34	1.2
40	28	22,058	-57.3		35	1.2
30	28	23,892	-53.7		36	1.8
25	26	25,068	-51.9		33	2.0
20	25	26,522	-49.7		29	3.2
15	22	28,417	-47.2		28	6.5
10	15	31,107	-43.6			

RAWINSONDE DATA

Average monthly values

OCTOBER 1975

*** NOME, AK 1007 MB**

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	5	-4.1	-7.2	01	1.7
1000	30	138	-3.6	-9.0	33	1.5
950	30	407	-3.8	-9.5	34	.9
900	30	892	-6.3	-10.9	31	.8
850	30	1,338	-7.8	-14.0	35	.8
800	30	1,808	-9.2	-17.8	31	1.3
750	30	2,315	-11.3	-21.5	31	2.2
700	30	2,832	-14.3	-25.0	30	3.1
650	30	3,390	-17.7	-27.3	29	3.5
600	30	3,985	-21.3	-30.2	29	3.9
550	30	4,622	-25.3	-35.5	28	5.2
500	30	5,307	-30.1	-39.4	28	6.0
450	30	6,049	-35.3	-42.8	27	6.8
400	30	6,860	-41.3	-45.5	27	8.5
350	30	7,757	-47.3		27	10.5
300	30	8,760	-53.1		27	11.4
250	30	9,928	-54.9		27	14.5
200	30	11,366	-52.1		27	13.4
175	30	12,232	-51.5		27	13.2
150	30	13,232	-51.7		27	13.4
125	30	14,415	-51.8		26	13.1
100	30	15,861	-52.0		26	12.7
80	30	17,304	-52.7		26	14.3
70	30	18,166	-52.7		26	14.1
60	30	19,161	-53.3		26	13.7
50	30	20,333	-54.0		26	15.3
40	30	21,765	-54.1		27	15.8
30	30	23,608	-54.4		27	17.4
25	29	24,774	-54.6		27	18.7
20	28	26,208	-54.7		27	19.0
15	23	28,037	-54.9		27	22.1
10	11	30,616	-54.6			
7						

NORTH PLATTE, NE 917 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	847	3.2	-1.7	24	.3
1000						
950						
900	31	1,003	9.1	-.9	26	2.4
850	31	1,481	12.4	-4.3	26	5.2
800	31	1,987	10.3	-7.2	28	5.7
750	31	2,521	7.1	-10.2	27	6.5
700	31	3,084	3.4	-13.1	27	8.1
650	31	3,681	-.4	-16.4	27	9.1
600	31	4,316	-4.4	-20.4	26	9.9
550	31	4,996	-8.7	-25.1	26	11.0
500	31	5,728	-13.8	-30.1	26	12.7
450	31	6,519	-19.9	-34.4	26	14.4
400	31	7,381	-26.7	-40.2	26	15.8
350	31	8,334	-34.0	-45.9	26	17.4
300	31	9,392	-42.7	-50.7	27	18.1
250	31	10,599	-51.2		27	19.2
200	30	12,029	-58.3		27	21.7
175	30	12,865	-60.3		27	20.5
150	30	13,823	-61.6		27	19.3
125	30	14,946	-63.7		27	15.4
100	30	16,313	-64.3		27	11.4
80	30	17,685	-62.0		27	8.3
70	30	18,512	-61.1		26	6.9
60	30	19,474	-59.6		27	5.6
50	30	20,619	-58.2		26	4.3
40	30	22,026	-57.3		26	4.4
30	30	23,855	-55.1		27	4.6
25	27	25,030	-53.9		27	4.5
20	27	26,470	-52.0		27	5.5
15	26	28,344	-49.9		27	8.0
10	24	31,025	-47.0		27	9.9
7	11	33,460	-43.1			

OAKLAND, CA 1017 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	6	12.1	10.0	26	.3
1000	31	148	12.7	8.8	27	.9
950	31	579	12.6	3.6	29	2.2
900	31	1,033	12.6	-2.0	29	2.4
850	31	1,511	10.5	-6.0	26	3.1
800	31	2,013	7.9	-8.3	26	4.0
750	31	2,543	5.0	-11.1	25	4.5
700	31	3,102	1.9	-14.4	26	4.9
650	31	3,696	-1.6	-18.5	27	6.4
600	31	4,339	-5.6	-21.8	27	7.6
550	31	5,006	-10.0	-26.0	27	9.1
500	31	5,734	-14.7	-29.6	27	10.4
450	31	6,524	-20.0	-34.2	27	13.2
400	31	7,386	-26.2	-40.0	27	15.0
350	31	8,341	-33.4	-46.0	27	16.3
300	31	9,403	-41.5	-51.6	27	17.9
250	31	10,617	-49.8		28	19.2
200	31	12,051	-57.5		28	20.6
175	31	12,890	-59.7		27	20.4
150	31	13,849	-61.5		27	20.4
125	31	14,975	-63.6		27	15.9
100	31	16,339	-65.0		27	13.3
80	31	17,703	-63.8		27	8.7
70	31	18,525	-62.1		27	6.9
60	31	19,482	-60.3		27	4.8
50	28	20,619	-58.7		27	3.9
40	26	22,026	-57.2		28	3.1
30	25	23,851	-55.0		29	3.1
25	23	25,021	-53.8		29	2.8
20	21	26,462	-51.6		28	2.6
15	13	28,319	-49.8		27	8.4
10	10	30,983	-48.5		26	15.0
7						

OMAHA, NE 969 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	403	8.9	3.1	19	1.8
1000						
950	31	561	11.4	1.4	21	4.3
900	31	1,014	[illegible]	[illegible]	23	8.4
850	31	1,491	11.1	-5.8	25	8.1
800	31	1,995	8.5	-7.9	25	7.7
750	31	2,525	5.9	-10.7	26	7.8
700	31	3,087	2.7	-14.4	26	8.2
650	31	3,682	-.9	-17.0	26	9.1
600	31	4,316	-4.9	-20.2	27	10.3
550	31	4,996	-8.8	-24.0	27	10.8
500	31	5,727	-13.7	-28.7	27	12.3
450	31	6,519	-19.5	[illegible]	27	13.7
400	31	7,383	-26.1	-40.6	27	15.6
350	30	8,333	-33.6	-46.3	27	17.2
300	30	9,393	-41.9	-51.8	28	18.3
250	30	10,604	-50.6		27	20.9
200	30	12,033	-57.9		27	21.5
175	30	12,871	-59.9		27	22.5
150	30	13,831	-61.4		27	20.3
125	29	14,958	-62.8		27	17.1
100	29	16,329	-63.4		26	12.1
80	29	17,705	-61.7		26	8.8
70	29	18,534	-60.2		26	8.8
60	29	19,500	-58.8		26	6.3
50	29	20,646	-58.2		26	5.2
40	28	22,055	-56.8		27	4.8
30	28	23,890	-54.4		28	3.9
25	26	25,064	-53.3		28	5.0
20	25	26,507	-51.5		28	5.9
15	17	28,357	-49.7		28	8.4
10	8	31,007	-46.4			
7						

*** PAGO PAGO, AMERICAN SAMOA 1012 MB**

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	5	29.0	23.0	09	[illegible]
1000	31	115	26.3	21.1	09	6.3
950	31	566	22.4	19.0	08	6.9
900	31	1,035	[illegible]	[illegible]	[illegible]	6.6
850	31	1,525	16.1	11.0	06	6.4
800	31	2,039	13.9	6.0	[illegible]	6.1
750	31	2,582	11.0	.9	[illegible]	5.5
700	31	3,156	8.7	-4.1	[illegible]	5.1
650	31	3,766	5.4	-7.9	10	4.9
600	31	4,415	1.5	-14.4	10	4.1
550	31	5,111	-2.1	-19.8	[illegible]	3.4
500	31	5,861	-7.1	-25.2	14	2.1
450	31	6,675	-12.4	[illegible]	[illegible]	1.7
400	31	7,564	-18.6	-36.0	21	3.0
350	31	8,548	-26.1	-40.7	23	5.1
300	31	9,642	-34.5	-47.8	[illegible]	7.5
250	31	10,890	-44.2		24	11.1
200	31	12,348	-55.6		24	14.2
175	31	13,188	-61.5		24	15.2
150	31	14,130	-67.0		25	14.4
125	31	15,216	-72.4		25	12.5
100	30	16,516	-76.0		25	6.1
80	30	17,816	-71.8		26	1.7
70	30	18,611	-68.1		[illegible]	.1
60	30	19,546	-64.2		09	1.8
50	30	20,672	-60.7		10	[illegible]
40	29	22,068	-58.4		06	1.6
30	29	23,892	-54.6		03	1.4
25	28	25,069	-51.6		36	.8
20	26	26,531	[illegible]		01	.7
15	22	28,463	-42.6		28	1.5
10	9	31,220	-37.1			
7						

*** PEORIA, IL 996 MB**

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	200	7.8	4.8	17	1.0
1000	9	247	5.1	-.3		
950	31	591	11.5	2.4	24	4.3
900	31	1,043	10.4	-.1	26	5.8
850	31	1,517	8.1	-3.5	27	5.9
800	31	2,016	6.1	-8.0	27	5.8
750	31	2,543	4.0	-13.1	26	7.1
700	31	3,100	1.1	-15.9	27	8.6
650	31	3,693	-2.3	-18.2	27	9.7
600	31	4,324	-5.5	-21.6	27	10.5
550	31	5,002	-9.6	-26.4	27	10.9
500	31	5,731	-14.4	-30.6	28	12.2
450	31	6,521	-20.2	-35.1	28	13.7
400	30	7,380	-26.5	-40.2	27	15.5
350	30	8,333	-33.9	-46.2	27	16.0
300	30	9,391	-42.3	-49.4	27	18.6
250	30	10,601	-50.7		27	20.5
200	30	12,031	-57.9		27	21.3
175	30	12,868	-60.2		27	20.0
150	30	13,826	-62.1		27	19.0
125	30	14,949	-63.5		26	16.2
100	30	16,316	-64.2		26	12.3
80	30	17,686	-62.4		26	8.9
70	30	18,513	-61.0		26	7.3
60	29	19,477	-60.0		27	5.1
50	29	20,619	-58.4		27	4.3
40	28	22,026	-57.3		28	4.0
30	25	23,871	-54.0		29	3.0
25	24	25,045	-52.1		27	3.4
20	22	26,501	-50.2		27	5.7
15	18	28,377	-48.8		28	7.8
10						

*** PITTSBURGH, PA 978 MB**

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	359	9.6	6.2	24	1.8
1000						
950	31	603	11.5	5.4	25	3.7
900	31	1,054	10.1	2.2	27	5.8
850	31	1,528	8.0	-2.2	27	6.5
800	31	2,027	6.0	-5.7	27	7.7
750	31	2,553	4.3	-12.0	27	8.8
700	31	3,112	1.9	-15.5	26	10.0
650	31	3,706	-1.3	-17.8	27	11.1
600	31	4,340	-5.0	-21.6	26	11.9
550	31	5,018	-9.2	-25.0	26	14.0
500	31	5,749	-14.2	-28.7	26	15.4
450	31	6,540	-19.7	-32.7	26	17.1
400	31	7,403	-26.0	-38.2	26	18.9
350	31	8,360	-32.7	-43.4	26	21.1
300	31	9,425	-40.3	-48.9	26	25.1
250	31	10,646	-48.7		26	28.0
200	31	12,087	-56.2		27	29.5
175	31	12,931	-58.5		27	26.2
150	31	13,894	-61.3		26	22.3
125	31	15,019	-63.1		26	20.5
100	30	16,393	-63.2		26	13.7
80	30	17,769	-61.9		27	9.4
70	30	18,578	-60.5		27	7.2
60	30	19,562	-59.1		27	5.2
50	29	20,712	-57.8		29	3.7
40	28	22,125	-55.5		29	2.3
30	27	23,970	-52.9		30	2.4
25	22	25,134	-51.6		29	3.4
20	20	26,601	-49.8		27	4.6
15	14	28,466	-48.8		28	6.1
10	5	31,158	-44.4			

+ PONAPE, CAROLINE IS. 1005 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	39	27.8	24.0	09	1.6
1000	31	80	26.7	22.9	09	1.8
950	31	533	23.4	20.5	10	3.9
900	31	1,004	20.2	17.5	10	4.6
850	31	1,496	17.5	14.3	10	5.0
800	31	2,014	15.1	11.0	09	4.9
750	31	2,559	12.4	7.0	09	4.5
700	31	3,136	9.2	3.6	09	4.1
650	31	3,748	6.2	-.4	10	4.1
600	31	4,400	2.4	-3.4	09	4.3
550	31	5,100	-1.2	-8.4	08	3.8
500	31	5,855	-5.2	-14.8	07	3.2
450	31	6,676	-9.9	-19.2	07	3.2
400	31	7,575	-15.3	-26.4	08	2.7
350	31	8,573	-22.3	-34.1	07	1.7
300	31	9,684	-30.7	-42.3	06	1.2
250	31	10,953	-40.8	-48.2	35	1.6
200	31	12,431	-53.4		30	3.2
175	31	13,277	-60.3		28	5.5
150	31	14,221	-67.8		27	8.6
125	30	15,300	-75.1		28	9.7
100	30	16,574	-80.1		33	2.2
80	30	17,853	-73.6		08	5.6
70	30	18,644	-68.6		08	3.4
60	30	19,574	-65.1		30	.7
50	29	20,698	-61.3		27	3.5
40	29	22,096	-57.1		27	4.0
30	27	23,932	-53.6		26	4.3
25	25	25,110	-50.7		26	4.2
20	24	26,576	-47.4		26	4.5
15	16	28,499	-44.3		25	.9
10						

PORTLAND, ME 1017 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	20	6.2	3.9	34	1.6
1000	31	156	8.6	3.6	33	2.0
950	31	581	8.1	.3	31	2.9
900	31	1,027	6.7	-2.2	30	3.6
850	31	1,495	5.7	-5.1	29	5.8
800	31	1,991	4.7	-7.4	28	8.5
750	31	2,515	2.6	-10.6	28	10.7
700	31	3,071	.0	-13.5	27	12.7
650	31	3,661	-3.2	-17.2	27	14.5
600	31	4,290	-6.5	-21.1	27	16.4
550	31	4,965	-10.6	-25.3	27	18.1
500	31	5,691	-15.7	-30.7	27	19.5
450	31	6,478	-20.7	-34.6	28	21.6
400	31	7,338	-27.0	-40.1	28	23.7
350	31	8,290	-34.0	-46.2	28	26.6
300	31	9,349	-41.9	-47.4	27	27.7
250	31	10,562	-49.9		27	31.5
200	31	11,999	-56.2		27	32.8
175	31	12,844	-57.8		27	28.9
150	31	13,811	-60.1		27	25.1
125	31	14,945	-61.4		27	22.0
100	31	16,325	-62.3		27	16.1
80	31	17,708	-60.8		28	11.7
70	31	18,541	-60.0		28	6.0
60	31	19,507	-58.6		28	6.4
50	31	20,656	-57.3		28	4.9
40	30	22,075	-56.1		27	4.0
30	30	23,912	-54.2		28	4.0
25	30	25,085	-53.1		28	4.2
20	28	26,528	-51.7		28	5.5
15	22	28,397	-49.8		27	8.5
10	9	31,021	-47.7			

*** QUILLAYUTE, WA 1006 MB**

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	58	8.1	[illegible]	14	1.8
1000	24	131	8.8	7.7	15	2.0
950	31	529	7.4	5.5	18	6.7
900	31	973	4.9	1.6	20	7.9
850	31	1,438	2.3	-1.5	21	9.0
800	31	1,926	.1	-4.9	22	9.8
750	31	2,441	-2.6	-9.6	23	9.9
700	30	2,991	-5.4	-13.6	23	10.4
650	30	3,570	-8.7	-17.4	23	11.3
600	30	4,186	-12.4	[illegible]	24	11.7
550	30	4,846	-16.3	-25.2	25	13.3
500	30	5,557	-20.5	-29.1	25	15.7
450	29	6,334	-25.4	[illegible]	25	17.3
400	29	7,178	-31.6	-39.3	26	19.6
350	28	8,111	-38.4	-44.0	26	21.0
300	28	9,151	-46.1		26	22.2
250	28	10,344	-52.0		26	23.0
200	28	11,774	-55.7		26	19.6
175	28	12,624	-56.0		26	18.1
150	28	13,603	[illegible]		[illegible]	16.7
125	27	14,767	[illegible]		27	14.6
100	26	16,173	[illegible]		26	11.7
80	26	17,583	[illegible]		26	8.8
70	25	18,429	-57.5		26	7.7
60	24	19,404	-57.0		26	6.5
50	22	20,571	-56.2		26	5.6
40	20	21,994	-56.3		28	4.1
30	14	23,824	-54.7		30	5.0
25	12	25,003	-53.5		30	[illegible]
20	10	26,470	-51.6			
15	6	28,359	-50.5			

RAPID CITY, SD 904 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	966	4.6	-3.2	33	2.5
1000						
950						
900	24	1,023	6.5	-3.3	33	2.6
850	31	1,471	8.7	-4.9	31	5.1
800	31	1,971	6.5	-7.4	30	6.5
750	31	2,498	3.9	-10.2	29	7.6
700	31	3,056	.8	-13.4	28	9.2
650	31	3,648	-2.6	-17.0	27	10.2
600	31	4,277	-6.9	-19.3	27	10.9
550	31	4,951	-11.2	-23.2	27	13.3
500	31	5,676	-16.2	-27.2	26	15.2
450	31	6,461	-21.7	-32.8	26	16.7
400	31	7,317	-28.2	-38.5	27	17.8
350	31	8,263	-35.6	-45.0	27	19.7
300	31	9,314	-43.8		27	21.3
250	31	10,517	-52.0		27	22.9
200	31	11,940	-58.2		27	22.9
175	31	12,778	-59.4		27	22.9
150	31	13,741	-60.2		27	20.6
125	31	14,876	-61.1		27	17.3
100	31	16,258	-62.4		27	12.0
80	31	17,640	-60.9		27	8.3
70	31	18,472	-60.2		26	6.3
60	31	19,436	-59.3		27	6.0
50	30	20,583	-58.3		27	5.4
40	28	21,996	-57.6		27	5.8
30	26	23,823	-55.9		27	5.3
25	24	24,999	-54.5		27	6.4
20	21	26,430	-52.8		28	6.4
15	15	28,310	-51.1		27	8.4
10						
7						

ST CLOUD, MN 978 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	316	4.3	.5	24	.4
1000						
950	31	554	7.6	.6	22	3.9
900	31	1,000	7.6	-1.8	24	6.0
850	31	1,470	6.5	-4.5	26	7.7
800	31	1,967	4.9	-7.9	26	9.7
750	31	[illegible]	[illegible]	-11.4	26	11.8
700	31	3,044	-1.2	-13.2	26	11.6
650	31	3,632	-4.4	-16.1	26	13.4
600	31	4,258	-8.4	-18.3	26	14.7
550	31	4,928	-12.5	-22.7	26	15.7
500	31	5,649	-17.4	-27.9	27	17.8
450	31	6,430	-22.6	-34.0	27	19.9
400	31	7,284	-28.9	-39.5	27	21.6
350	31	8,227	-36.5	-46.0	27	22.8
300	31	9,275	-44.6		[illegible]	24.1
250	31	10,474	-52.3		27	25.4
200	30	11,898	-57.5		[illegible]	26.3
175	[illegible]	12,740	-58.4		27	24.3
150	[illegible]	13,708	-59.1		27	20.6
125	[illegible]	14,849	-60.3		[illegible]	17.7
100	[illegible]	16,236	-61.4		27	11.4
80	30	[illegible]	-60.6		27	9.2
70	30	18,457	-59.0		27	7.9
60	30	19,424	-58.6		27	5.5
50	30	20,571	-58.2		27	6.1
40	28	21,978	-57.6		[illegible]	5.3
30	27	23,805	-55.9		27	5.8
25	[illegible]	24,969	-54.8		28	[illegible]
20	26	26,407	-53.3		28	7.0
15	23	28,265	-51.4		28	8.5
10	18	[illegible]	-47.5		28	11.7
7	6	33,245	-45.6			

*** ST PAUL ISLAND, AK 1008 MB**

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	29	10	2.4	.2	01	2.2
1000	22	119	2.1	-1.2	05	2.8
950	29	484	-.3	-2.9	03	3.6
900	29	915	-3.2	-6.0	01	3.5
850	29	1,365	-5.4	-9.9	01	2.8
800	29	1,840	-7.2	-15.2	35	2.2
750	29	2,342	-8.9	-20.2	32	2.4
700	29	2,874	-11.4	-23.1	30	2.6
650	29	3,439	-14.4	-24.9	29	3.3
600	28	4,049	-17.5	-27.5	[illegible]	4.1
550	27	4,688	-21.6	-31.7	28	4.8
500	27	5,384	-26.1	-35.3	28	6.5
450	27	6,140	-30.8	-41.1	28	7.7
400	[illegible]	6,956	-37.1	-44.1	27	8.3
350	26	7,870	-43.6		28	9.4
300	26	8,887	-50.6		27	11.0
250	25	10,063	-53.7		27	13.3
200	24	11,501	-52.8		27	15.0
175	24	12,363	-52.4		27	15.8
150	24	13,360	-52.5		27	13.7
125	24	14,537	-52.8		27	13.3
100	24	15,978	-52.7		27	12.8
80	24	17,420	-52.8		27	11.6
70	24	18,281	-53.1		27	11.1
60	24	19,276	-53.0		27	10.2
50	23	20,448	-52.9		27	10.2
40	23	21,887	-52.9		27	11.0
30	[illegible]	23,737	-53.0		27	11.1
25	[illegible]	24,914	-52.6		27	11.6
20	22	[illegible]	-52.3		28	11.7
15	[illegible]	28,230	-51.7		[illegible]	12.6
10	10	30,865	-50.2			
7	6	33,297	-46.3			

SALEM, IL 999 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	174	10.0	6.4	08	.3
1000	13	225	9.4	4.6	05	1.4
950	31	596	13.0	3.2	26	2.7
900	31	1,049	11.2	1.0	27	3.8
850	31	1,525	9.6	-2.1	26	4.8
800	31	2,027	7.7	-6.4	26	5.7
750	31	2,557	5.1	-9.9	26	6.3
700	31	3,117	2.8	-12.4	26	6.8
650	31	3,713	-.6	-15.7	26	8.0
600	31	4,348	-4.4	-21.3	27	9.1
550	31	5,028	-8.7	-24.3	27	9.9
500	31	5,760	-13.3	-28.6	27	10.6
450	31	6,554	-18.7	-33.4	27	12.2
400	31	7,421	-25.2	[illegible]	27	13.4
350	31	8,380	-32.4	-45.3	27	14.3
300	31	9,445	-40.8	-48.7	26	15.3
250	31	10,663	-49.3		26	16.6
200	31	12,099	-57.1		26	20.8
175	31	12,939	-59.4		27	21.0
150	31	13,899	-61.3		26	19.2
125	30	15,023	-64.0		26	15.2
100	[illegible]	16,387	-64.8		26	11.5
80	29	17,756	-63.1		25	[illegible]
70	29	18,581	-61.1		26	6.9
60	28	19,540	-59.9		26	5.3
50	28	[illegible]	-58.1		[illegible]	2.9
40	[illegible]	22,098	-56.2		28	[illegible]
30	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
25	23	25,117	-51.9		[illegible]	2.5
20	21	26,577	-49.7		[illegible]	3.7
15	14	28,463	-47.6		28	5.2
10	[illegible]	[illegible]	-45.7			

SALEM, OR 1008 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	[illegible]	8.9	[illegible]	18	2.1
1000	27	142	10.1	[illegible]	[illegible]	2.6
950	31	556	[illegible]	[illegible]	[illegible]	6.2
900	31	1,002	[illegible]	[illegible]	[illegible]	7.5
850	31	1,470	4.0	-1.1	[illegible]	9.2
800	31	[illegible]	1.8	-4.6	[illegible]	10.3
750	31	2,480	-.6	-8.8	[illegible]	11.3
700	31	3,029	-3.6	-11.4	[illegible]	11.8
650	31	3,611	-6.8	-14.4	[illegible]	[illegible]
600	31	4,232	[illegible]	-19.1	[illegible]	14.7
550	31	4,897	-14.2	[illegible]	[illegible]	14.9
500	31	5,614	-19.1	-28.1	[illegible]	16.6
450	31	6,390	-24.2	-33.8	[illegible]	17.5
400	31	7,238	-30.5	[illegible]	[illegible]	18.3
350	31	8,177	-37.4	-45.2	[illegible]	[illegible]
300	31	[illegible]	-44.8		[illegible]	[illegible]
250	30	10,428	-51.7		[illegible]	20.5
200	29	11,854	-56.7		[illegible]	[illegible]
175	29	[illegible]	-57.6		[illegible]	16.9
150	[illegible]	13,670	-58.4		[illegible]	16.4
125	[illegible]	14,814	-59.5		[illegible]	16.0
100	28	16,213	-59.5		[illegible]	12.5
80	28	17,614	-58.5		[illegible]	9.4
70	28	18,453	-58.8		[illegible]	[illegible]
60	27	19,427	-57.6		[illegible]	8.5
50	27	20,582	-56.8		[illegible]	4.6
40	26	21,997	-56.4		[illegible]	[illegible]
30	[illegible]	[illegible]	-55.4		[illegible]	3.4
25	[illegible]	24,995	-54.5		[illegible]	3.9
20	22	[illegible]	[illegible]		[illegible]	3.7
15	16	[illegible]	-51.6		[illegible]	5.4
10	[illegible]	30,916	-50.8			
7						

RAWINSONDE DATA

Average monthly values

OCTOBER 1975

Standard pressure surface mb	SALT LAKE CITY, UT 872 MB						SAN DIEGO, CA 1000 MB						SAN JUAN, P. R. 1014 MB						* SAULT STE MARIE, MI 991 MB						SPOKANE, WA 930 MB					
	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	1,288	7.7	-.5	15	3.0	31	124	14.0	9.9	06	.5	31	6†	24.4	22.7	11	2.3	31	221	5.9	2.2	14	.5	31	720	5.4	2.5	18	2.7
1000							22	136	14.0	8.3	03	1.3	31	174	24.5	21.6	11	4.0												
950							31	562	15.7	4.3	26	.5	31	574	21.9	18.9	11	7.3	31	566	6.4	1.2	22	2.7						
900							31	1,020	14.7	.9	02	.5	31	1,042	18.9	15.6	11	7.9	31	1,008	4.5	-1.1	26	6.1	31	989	6.6	.3	21	5.3
850	31	1,501	10.2	-3.9	17	4.9	31	1,502	13.6	-4.6	24	.6	31	1,532	16.1	10.3	11	7.7	31	1,473	3.2	-6.1	27	7.7	31	1,457	4.6	-3.2	23	6.7
800	31	2,004	8.1	-6.8	20	5.1	31	2,011	11.3	-7.7	28	1.1	31	2,046	13.6	6.5	11	7.2	31	1,963	1.5	-9.6	27	9.0	31	1,948	1.3	-6.2	24	8.0
750	31	2,533	4.6	-9.3	23	5.5	31	2,547	8.7	-11.4	25	1.6	31	2,588	11.0	1.3	11	6.6	31	2,482	-.5	-10.8	26	9.8	31	2,465	-1.8	-9.4	24	8.2
700	31	3,091	.6	-12.5	24	6.9	31	3,113	5.6	-14.2	26	3.3	31	3,161	7.9	-2.2	11	5.9	31	3,031	-3.2	-15.2	26	11.1	31	3,011	-5.2	-12.1	25	9.5
650	31	3,682	-3.3	-15.3	25	8.9	31	3,716	2.4	-17.2	26	4.6	31	3,769	4.8	-7.9	11	4.6	31	3,614	-6.2	-18.1	27	12.8	31	3,590	-8.0	-15.9	25	11.1
600	31	4,310	-7.5	-18.6	25	10.4	31	4,358	-1.3	-20.1	28	5.6	31	4,418	1.4	-13.6	10	4.5	31	4,236	-9.6	-21.5	27	14.8	31	4,206	-11.5	-20.1	25	13.6
550	31	4,982	-12.1	-24.0	26	12.2	31	5,046	-5.4	-24.1	27	8.6	31	5,113	-2.7	-18.4	11	3.8	31	4,903	-13.8	-26.9	27	16.4	31	4,870	-15.5	-23.3	25	15.0
500	31	5,705	-16.6	-28.9	26	14.4	31	5,786	-10.8	-29.4	27	10.1	31	5,862	-7.4	-23.0	11	3.4	31	5,621	-18.4	-31.6	27	18.1	31	5,584	-20.1	-28.1	25	16.2
450	31	6,489	-22.0	-32.9	26	15.1	31	6,587	-16.8	-33.9	27	12.2	31	6,675	-12.3	-27.8	11	3.0	31	6,399	-23.8	-36.7	27	19.2	31	6,357	-25.3	-34.5	25	17.5
400	31	7,344	-28.3	-38.9	26	16.5	31	7,459	-23.7	-39.2	27	14.1	31	7,565	-18.6	-34.3	12	2.4	31	7,249	-29.6	-43.0	27	21.4	30	7,196	-31.6	-38.4	25	18.8
350	31	8,292	-35.1	-44.4	26	18.2	31	8,422	-31.2	-45.3	27	15.0	31	8,549	-25.9	-39.4	10	.7	31	8,191	-36.5	-47.3	27	24.4	30	8,130	-38.4	-43.9	26	21.1
300	31	9,346	-43.0		26	19.2	30	9,498	-38.9	-51.7	26	18.0	31	9,643	-34.5	-47.2	30	2.2	30	9,237	-44.2		27	26.7	30	9,170	-46.0		26	23.1
250	31	10,554	-50.5		27	20.1	30	10,726	-47.4		26	23.2	31	10,892	-44.2		32	5.0	30	10,440	-51.1		27	27.7	30	10,363	-53.0		26	25.1
200	31	11,985	-57.3		27	20.9	30	12,172	-55.8		26	25.3	31	12,351	-55.5		32	9.4	30	11,876	-54.9		27	26.1	30	11,789	-56.0		26	22.8
175	30	12,828	-59.6		26	20.5	29	13,012	-59.8		26	24.6	31	13,191	-61.3		32	10.0	30	12,728	-55.9		27	24.4	30	12,638	-56.2		26	21.5
150	30	13,788	-60.5		27	19.5	29	13,966	-63.9		26	23.5	31	14,133	-67.8		31	8.6	30	13,708	-56.5		27	22.0	30	13,619	-56.1		26	17.9
125	30	14,919	-62.5		26	17.4	29	15,077	-66.3		26	18.9	31	15,216	-72.8		31	5.4	29	14,854	-58.0		27	18.3	30	14,777	-56.8		26	15.2
100	30	16,290	-63.7		26	13.5	29	16,423	-68.3		26	13.9	31	16,516	-74.7		34	2.5	29	16,257	-59.1		27	14.6	30	16,187	-57.9		26	13.5
80	30	17,660	-62.6		27	8.6	28	17,762	-67.3		26	9.8	31	17,817	-72.9		08	3.3	29	17,655	-59.0		27	10.6	30	17,595	-57.4		26	10.3
70	30	18,486	-61.8		27	6.7	28	18,573	-64.1		26	6.4	31	18,607	-69.3		10	5.2	29	18,494	-57.8		27	8.8	30	18,440	-57.0		26	8.8
60	30	19,444	-60.2		27	5.7	28	19,521	-62.3		26	3.7	30	19,534	-65.8		10	6.7	29	19,468	-57.4		27	7.3	29	19,421	-56.9		26	7.5
50	30	20,586	-58.8		27	5.0	28	20,654	-60.1		27	1.8	30	20,650	-62.6		10	7.7	29	20,621	-56.8		27	7.2	27	20,574	-56.7		27	5.8
40	30	21,991	-57.7		27	4.1	28	22,056	-57.6		09	.5	30	22,040	-58.7		09	7.8	29	22,037	-56.3		27	6.6	25	21,985	-56.3		27	4.7
30	28	23,815	-56.0		28	4.3	27	23,887	-54.1		03	.7	30	23,871	-53.3		10	9.4	29	23,871	-54.5		27	6.6	21	23,806	-55.4		29	4.1
25	26	24,972	-55.0		28	4.6	27	25,061	-52.7		06	.8	29	25,050	-51.2		11	10.0	29	25,042	-53.6		27	7.6	19	24,964	-54.6		30	3.7
20	25	26,404	-53.0		28	5.1	27	26,510	-50.3		11	.5	28	26,513	-48.0		11	10.4	27	26,480	-52.4		27	7.2	18	26,398	-54.3		30	6.3
15	24	28,262	-51.3		28	6.9	26	28,398	-47.4		26	3.9	23	28,429	-44.2		11	13.2	23	28,341	-50.9		27	9.8	15	28,263	-52.5		29	5.9
10	19	30,911	-49.5		28	10.9	20	31,117	-44.5		27	6.9	9	31,165	-39.8				16	30,967	-49.3		27	13.2	8	30,943	-50.4			
7	8	33,265	-48.7				7	33,551	-43.2																					

Standard pressure surface mb	TAMPA BAY, FL 1016 MB						TOPEKA, KS 986 MB						+ TRUK, CAROLINE IS. 1010 MB						* TUCSON, AZ 925 MB						* VANDENBERG AFB, CA 1005 MB					
	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	8	20.3	19.6	05	1.5	31	268	9.1	5.1	20	1.5	31	2	28.6	24.0	10	1.7	31	789	14.9	-1.3	15	2.1	30	100	11.2	8.1	35	.8
1000	31	148	22.0	18.8	08	3.1							31	93	27.3	22.7	10	2.1							30	142	13.0	8.0	36	1.4
950	31	594	20.4	14.6	09	3.5	31	577	12.8	3.2	21	4.8	31	547	23.8	20.1	11	3.3							30	576	15.1	3.8	36	3.6
900	31	1,060	17.7	11.0	11	2.2	31	1,031	12.6	.4	23	6.8	31	1,019	20.8	16.6	11	4.5	31	1,019	19.1	-1.2	15	2.7	30	1,034	14.8	-1.8	35	2.9
850	31	1,547	14.7	7.4	14	2.0	31	1,510	11.3	-4.2	25	6.3	31	1,512	17.7	13.6	10	4.7	31	1,508	16.9	-2.9	17	2.7	30	1,515	12.6	-5.0	33	2.5
800	31	2,058	12.3	.9	15	2.1	31	2,014	8.9	-6.6	25	6.4	31	2,030	15.3	10.0	10	5.1	31	2,022	13.5	-4.7	19	3.8	30	2,021	9.9	-7.6	32	2.2
750	31	2,597	10.0	-4.8	15	2.0	31	2,545	6.1	-10.7	25	7.2	31	2,575	12.6	6.6	09	5.4	31	2,561	9.7	-8.0	20	5.2	30	2,555	7.3	-10.8	30	2.2
700	31	3,167	7.0	-8.3	15	1.2	31	3,107	3.0	-14.0	26	7.4	31	3,152	9.6	2.3	09	5.4	31	3,129	5.9	-11.2	20	5.7	30	3,118	3.7	-13.9	29	3.1
650	31	3,773	3.8	-11.6	16	.4	31	3,704	-.2	-17.6	26	7.5	31	3,765	6.4	-.7	09	5.5	31	3,732	2.6	-14.8	21	6.0	30	3,717	.7	-16.4	29	4.3
600	31	4,418	.0	-15.8	24	.9	31	4,340	-3.9	-20.9	27	8.0	31	4,418	2.7	-4.3	08	5.3	31	4,375	-1.3	-19.2	23	6.7	30	4,356	-2.6	-21.6	28	5.2
550	31	5,110	-4.1	-21.0	24	2.3	31	5,021	-8.2	-25.6	27	8.9	31	5,118	-1.1	-8.5	09	4.6	31	5,063	-5.6	-24.1	24	8.6	30	5,040	-7.3	-24.6	27	6.8
500	31	5,855	-9.0	-24.9	25	2.8	31	5,754	-13.1	-31.0	27	10.3	31	5,873	-5.3	-13.0	09	4.3	31	5,803	-10.8	-28.8	25	9.7	30	5,775	-12.0	-28.6	27	8.5
450	31	6,662	-14.4	-30.9	24	3.0	31	6,548	-18.9	-34.9	27	12.4	31	6,694	-10.0	-19.3	09	4.1	31	6,603	-16.7	-33.7	25	10.8	30	6,570	-18.3	-33.1	28	9.7
400	31	7,544	-20.5	-36.4	25	2.6	31	7,413	-25.6	-39.8	27	13.4	30	7,593	-15.5	-27.0	09	3.8	31	7,477	-23.3	-39.7	26	13.1	30	7,438	-24.9	-38.8	28	11.3
350	31	8,522	-27.4	-42.0	26	4.1	31	8,370	-33.1	-46.2	27	15.3	30	8,592	-22.2	-34.1	09	3.6	31	8,443	-30.5	-44.8	26	15.8	30	8,397	-32.4	-45.4	28	12.1
300	31	9,611	-35.5	-47.7	27	6.8	31	9,432	-41.6	-52.0	27	17.0	30	9,703	-30.8	-42.5	08	3.3	31	9,518	-38.4	-51.9	26	18.7	30	9,464	-40.3	-52.3	28	13.7
250	31	10,855	-44.8		28	9.6	31	10,645	-50.0		27	17.4	30	10,970	-41.0		03	2.1	31	10,748	-47.1		26	22.8	30	10,684	-48.9		28	15.4
200	31	12,312	-55.6		27	11.8	31	12,077	-58.0		28	19.1	30	12,446	-53.6		32	2.2	29	12,205	-55.8		27	25.6	30	12,124	-56.5		27	16.8
175	31	13,152	-61.1		27	11.9	31	12,913	-60.5		28	17.4	30	13,292	-60.5		30	3.6	29	13,046	-60.1		27	25.6	30	12,966	-59.7		27	18.1
150	31	14,096	-66.8		27	10.8	31	13,868	-62.5		27	17.1	30	14,235	-68.1		28	6.6	29	13,999	-64.3		27	22.1	30	13,923	-62.6		26	16.7
125	31	15,185	-71.4		28	8.1	31	14,989	-64.2		28	14.7	30	15,310	-75.6		27	5.7	29	15,103	-68.2		26	18.7	30	15,040	-65.3		26	14.6
100	31	16,497	-72.9		29	3.9	31	16,351	-65.0		27	11.4	30	16,581	-80.4		04	3.4	29	16,435	-70.0		27	14.1	26	16,391	-67.0		26	11.2
80	31	17,817	-69.4		03	.5	31	17,717	-62.9		26	8.7	30	17,856	-74.0		08	6.9	29	17,765	-68.6		27	7.4	23	17,741	-65.5		27	7.4
70	31	18,619	-67.0		09	1.5	29	18,544	-61.0		26	7.1	30	18,646	-69.0		08	4.4	29	18,570	-66.0		27	4.3	21	18,556	-63.6		27	5.0
60	31	19,555	-64.5		09	2.4	29	19,505	-59.8		26	5.8	30	19,576	-65.5		06	1.3	28	19,511	-63.1		28	2.0	21	19,507	-61.7		27	4.3
50	31	20,681	-60.7		07	4.8	29	20,648	-58.2		26	4.1	30	20,697	-61.2		29	1.8	28	20,641	-60.1		34	.3	21	20,642	-59.8		27	3.2
40	30	22,081	-57.2		09	5.7	29	22,059	-56.7		27	3.2	30	22,095	-57.6		28	3.2	28	22,040	-58.4		04	.6	20	22,043	-57.5		29	2.0
30	30	23,916	-53.8		08	5.8	29	23,893	-53.8		29	2.7	25	23,932	-54.3		27	2.9	27	23,866	-54.9		08	2.5	19	23,868	-55.0		29	1.8
25	29	25,095	-51.4		07	6.3	28	25,068	-52.3		29	3.7	25	25,108	-51.8		26	2.6	26	25,038	-53.1		08	1.9	19	25,039	-53.2		27	2.6
20	28	26,560	-48.4		08	5.6	27	26,516	-50.8		29	4.5	24	26,570	-47.2		24	1.5	23	26,487	-50.6		07	2.4	19	26,482	-51.2		27	3.6
15	23	28,467	-44.3		08	4.6	23	28,396	-48.1		28	7.7	22	28,486	-44.7		23	1.8	17	28,382	-47.9		29	.7	16	28,369	-48.1		28	6.4
10	18	31,221	-38.8		14	2.0	15	31,081	-45.2		28	12.6	11	31,207	-40.3				7	31,047	-44.8				13	31,074	-45.7		27	10.4
7	6	33,694	-37.7																						11	33,459	-43.1		27	13.5
5																									6	35,815	-40.3			

Standard pressure surface mb	VICTORIA, TX 1013 MB						* WAKE IS., PACIFIC AREA 1014 MB						* WALLOPS ISLAND, VA NASA 1019 MB						WASHINGTON DULLES INT. AP 1010 MB						WAYCROSS, GA 1013 MB					
	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	33	15.7	14.1	02	1.7	31	5	27.2	23.7	09	5.2	31	4	14.3	12.6	33	1.2	31	85	10.1	8.4	33	1.1	31	44	16.2	15.0	03	1.0
1000	31	144	19.8	15.7	07	1.6	31	130	26.2	21.7	09	5.9	31	164	15.9	10.8	35	2.2	30	174	12.5	8.8	33	2.0	31	156	18.7	15.5	05	2.0
950	31	587	18.7	12.6	15	3.4	31	581	22.5	20.0	10	7.1	31	599	14.7	6.1	33	2.6	31	602	12.7	5.2	31	3.5	31	598	18.2	13.1	07	2.8
900	31	1,050	16.4	8.2	17	2.7	31	1,051	19.7	14.7	10	7.3	31	1,055	12.8	2.6	30	2.8	31	1,054	11.1	2.8	31	4.4	31	1,060	16.2	9.8	11	1.1
850	31	1,535	14.0	3.6	18	2.1	31	1,541	16.6	12.6	10	7.3	31	1,534	10.8	-.6	28	4.0	31	1,530	9.2	.1	29	4.8	31	1,545	14.0	4.1	19	1.0
800	31	2,045	12.6	-2.3	20	1.8	31	2,056	13.9	8.0	10	7.3	31	2,038	8.8	-3.8	27	5.0	31	2,032	7.5	-4.2	27	5.7	31	2,055	12.0	-.6	22	1.5
750	31	2,584	9.7	-6.4	25	1.3	31	2,599	11.5	1.6	10	7.2	31	2,570	6.7	-6.6	27	6.3	31	2,562	5.6	-9.0	26	6.9	31	2,593	9.3	-4.3	22	2.0
700	31	3,153	6.4	-11.7	28	2.2	31	3,173	8.6	-5.0	09	6.9	31	3,134	3.8	-9.5	26	7.4	31	3,123	2.8	-13.1	26	8.3	31	3,162	6.5	-10.5	22	2.8
650	31	3,757	3.0	-15.8	28	2.7	31	3,782	5.3	-7.9	09	6.8	31	3,733	1.0	-13.6	26	8.7	31	3,720	.0	-15.9	26	9.7	31	3,767	3.3	-13.5	23	3.4
600	31	4,401	-.8	-18.6	30	3.6	31	4,432	1.5	-12.6	09	6.4	31	4,373	-2.3	-18.2	26	10.4	31	4,356	-3.8	-20.0	26	10.8	31	4,411	-.4	-16.6	23	3.6
550	31	5,090	-4.8	-23.1	29	4.0	31	5,128	-2.5	-16.4	09	5.7	31	5,059	-6.3	-21.7	26	11.6	31	5,038	-7.9	-23.7	26	12.0	31	5,102	-4.6	-21.7	23	4.0
500	31	5,833	-9.8	-27.7	29	4.8	31	5,878	-7.4	-19.9	08	5.4	31	5,797	-11.5	-26.4	26	12.7	31	5,772	-12.8	-28.2	26	14.4	31	5,845	-9.4	-26.8	24	4.6
450	31	6,637	-15.3	-32.8	29	6.4	31	6,691	-12.4	-26.2	07	5.2	31	6,597	-16.8	-31.1	26	15.2	31	6,568	-17.9	-32.5	26	16.5	31	6,651	-14.8	-30.0	24	6.1
400	31	7,516	-21.8	-38.5	28	9.1	31	7,580	-18.5	-32.2	07	5.8	31	7,471	-23.1	-36.6	26	17.0	31	7,438	-23.8	-38.1	25	18.0	31	7,532	-21.1	-34.2	24	8.2
350	31	8,488	-28.8	-44.0	28	12.5	31	8,565	-25.6	-37.8	06	4.5	30	8,439	-30.1	-42.5	26	19.5	31	8,403	-30.9	-43.6	26	20.6	31	8,507	-28.3	-39.9	23	9.2
300	31	9,570	-36.7	-50.4	28	16.8	31	9,661	-34.2	-45.5	05	3.8	30	9,515	-38.6	-47.4	26	21.7	31	9,475	-39.0	-48.5	26	23.2	30	9,590	-36.5	-47.0	24	10.9
250	31	10,809	-45.7		28	20.1	30	10,910	-44.4		04	3.5	30	10,743	-48.0		26	24.3	31	10,702	-47.9		26	26.6	30	10,829	-45.9		25	12.9
200	31	12,263	-55.5		28	21.1	30	12,366	-56.3		03	2.3	30	12,181	-58.0		26	26.4	31	12,141	-57.3		26	27.5	30	12,280	-56.0		25	15.1
175	31	13,105	-60.4		28	20.8	30	13,203	-61.8		34	3.2	30	13,015	-61.6		26	24.7	31	12,979	-60.7		26	25.4	30	13,119	-61.1		25	15.8
150	31	14,054	-65.4		28	18.3	30	14,144	-67.6		35	3.9	30	13,964	-64.3		26	22.7	31	13,932	-63.0		26	22.6	30	14,066	-65.8		26	14.7
125	31	15,150	-70.1		27	15.1	30	15,228	-72.5		01	4.7	30	15,074	-66.2		27	19.0	31	15,048	-65.1		26	18.7	30	15,162	-69.6		26	11.4
100	31	16,468	-72.0		28	9.3	29	16,531	-74.4		05	4.6	30	16,422	-67.0		27	12.6	31	16,403	-66.1		26	14.3	30	16,489	-70.3		27	5.4
80	29	17,787	-69.6		31	3.2	29	17,833	-72.2		07	5.6	29	17,775	-65.4		27	8.1	31	17,761	-64.4		27	9.7	30	17,821	-67.8		28	.2
70	28	18,588	-67.1		09	1.2	28	18,626	-69.6		08	7.0	29	18,593	-63.2		28	5.9	31	18,581	-62.6		28	7.3	30	18,679	-65.4		21	.8
60	28	19,527	-63.9		12	2.7	27	19,552	-67.0		09	9.3	29	19,545	-61.4		29	3.4	31	19,537	-60.8		28	4.7	30	19,572	-62.9		03	.7
50	28	20,653	-60.8		10	3.6	26	20,665	-63.0		09	10.0	29	20,682	-59.4		30	2.6	31	20,676	-59.1		28	4.1	30	20,704	-59.8		06	2.6
40	26	22,051	-57.3		09	4.8	25	22,052	-59.1		09	9.6	29	22,087	-57.0		31	1.8	31	22,082	-57.1		29	3.1	30	22,109	-56.6		07	3.0
30	26	23,889	-53.1		08	5.8	25	23,873	-55.0		09	9.7	26	23,927	-53.5		31	2.7	29	23,914	-53.8		29	2.7	28	23,947	-53.2		07	4.0
25	25	25,072	-50.6		08	5.7	25	25,042	-53.2		09	9.6	26	25,105	-52.1		31	2.7	28	25,088	-52.6		29	3.7	26	25,128	-50.7		08	3.4
20	23	26,534	-47.6		08	5.6	25	26,492	-49.3		09	10.7	22	26,568	-49.8		28	2.9	28	26,536	-51.1		28	4.5	26	26,592	-47.8		06	2.4
15	19	28,462	-43.7		09	4.3	22	28,403	-44.9		09	10.3	21	28,448	-48.2		27	6.6	25	28,419	-48.7		27	7.0	24	28,503	-44.2		34	1.5
10	10	31,220	-39.1				13	31,143	-40.8		08	12.9	9	31,145	-44.9				18	31,107	-45.4		27	13.3	17	31,255	-39.4		26	5.1
7																			9	33,388	-44.2									
5																			5	35,624	-42.6									

RAWINSONDE DATA

Average monthly values

OCTOBER 1975

WINNEMUCCA, NV
869 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	1,312	4.3	-2.8	20	1.6
1000						
950						
900						
850	31	1,496	8.7	-2.5	22	2.3
800	31	1,996	6.4	-5.0	24	4.5
750	31	2,522	2.9	-7.7	25	5.8
700	31	3,077	-.6	-12.0	25	8.2
650	31	3,666	-4.1	-15.6	26	10.0
600	31	4,293	-7.8	-19.6	26	11.5
550	31	4,964	-11.9	-23.7	26	12.1
500	31	5,687	-16.7	-29.2	26	13.3
450	31	6,470	-22.2	-33.2	26	13.7
400	31	7,326	-28.3	-38.3	26	15.1
350	31	8,273	-35.1	-42.3	26	17.3
300	30	9,320	-43.2	-51.7	26	18.6
250	30	10,526	-51.1		26	21.2
200	30	11,955	-57.6		26	22.7
175	30	12,795	-59.0		26	21.2
150	29	13,761	-60.2		26	19.6
125	29	14,895	-62.0		26	17.4
100	28	16,273	-63.4		27	14.2
80	27	17,647	-62.1		26	8.3
70	26	18,481	-60.3		26	6.1
60	26	19,444	-59.5		27	4.3
50	26	20,589	-58.3		27	3.6
40	26	21,995	-57.5		28	3.5
30	24	23,817	-55.4		28	3.7
25	23	24,980	-54.1		28	4.0
20	21	26,420	-52.1		28	4.1
15	17	28,292	-50.4		27	6.5
10						

WINSLOW, AZ
853 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	1,487	5.0	-4.8	17	1.5
1000						
950						
900						
850	24	1,535	7.4	-6.8	18	1.1
800	30	2,022	11.5	-6.0	22	3.7
750	30	2,558	8.1	-8.3	23	5.1
700	30	3,123	4.1	-11.5	23	6.0
650	30	3,722	.4	-15.8	24	7.0
600	30	4,359	-3.6	-20.1	25	7.0
550	30	5,041	-8.0	-25.0	25	8.4
500	30	5,774	-13.2	-30.9	25	10.9
450	30	6,568	-18.7	-35.2	26	12.0
400	29	7,436	-25.1	-40.2	26	13.1
350	28	8,391	-32.6	-46.6	26	14.6
300	28	9,455	-40.9	-52.8	26	17.[illegible]
250	28	10,673	-49.3		26	20.1
200	27	12,109	-56.3		27	22.3
175	27	12,950	-59.7		27	23.3
150	27	13,906	-63.3		26	20.3
125	27	15,017	-66.6		26	18.3
100	26	16,358	-68.6		27	13.8
80	24	17,701	-67.0		27	7.9
70	23	18,519	-64.3		27	5.7
60	21	19,471	-62.0		26	4.2
50	21	20,607	-59.6		25	1.5
40	21	22,007	-58.1		28	.8
30	21	23,832	-55.3		16	.8
25	21	25,000	-53.7		27	1.1
20	20	26,447	-51.4		27	1.1
15	19	28,320	-49.0		26	4.4
10	11	30,955	-46.8		28	11.6

YAKUTAT, AK
1001 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	12	3.2	1.5	08	1.8
1000	17	78	5.5	.5	09	1.9
950	31	437	4.6	-2.0	11	3.4
900	31	875	1.6	-3.7	13	3.7
850	31	1,333	-1.7	-5.9	14	4.2
800	31	1,813	-4.7	-8.7	15	4.0
750	31	2,318	-7.9	-12.9	17	3.9
700	31	2,851	-11.2	-17.7	18	4.0
650	31	3,416	-14.8	-21.9	19	4.0
600	31	4,018	-18.5	-26.7	20	4.6
550	31	4,661	-22.9	-31.1	20	4.6
500	31	5,353	-28.0	-36.2	22	5.2
450	31	6,102	-33.2	-41.2	22	5.7
400	31	6,920	-39.0	-44.0	23	6.7
350	31	7,827	-44.8	-42.5	23	8.0
300	31	8,841	-50.4		24	7.5
250	30	10,079	-51.7		26	8.7
200	30	11,479	-50.6		27	8.7
175	30	12,349	-50.7		27	8.5
150	30	13,353	-51.3		27	9.3
125	30	14,537	-51.5		26	9.6
100	29	15,978	-51.5		27	8.5
80	28	17,421	-52.2		27	9.1
70	28	18,285	-52.2		27	8.4
60	28	19,282	-52.9		27	9.5
50	28	20,456	-53.3		27	9.2
40	26	21,898	-53.5		28	9.7
30	24	23,754	-54.1		28	10.6
25	22	24,930	-53.8		28	11.7
20	21	26,368	-54.5		28	12.4
15	16	28,221	-54.4		29	15.6
10	6	30,866	-52.5			

YAP, CAROLINE IS.
1008 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	14	28.3	24.3	11	1.[illegible]
1000	31	83	27.0	23.1	11	2.[illegible]
950	31	536	23.3	20.9	12	2.8
900	31	1,008	20.5	16.4	12	3.2
850	31	1,501	17.5	13.3	12	3.5
800	31	2,018	15.3	10.[illegible]	11	3.6
750	31	2,564	12.7	7.8	10	4.0
700	31	3,141	9.5	3.7	10	4.5
650	31	3,754	6.2	.2	10	5.2
600	31	4,407	2.4	-2.3	10	5.4
550	31	5,106	-1.5	-7.0	10	5.2
500	31	5,860	-5.7	-12.3	08	5.5
450	31	6,681	-10.0	-20.1	09	5.0
400	31	7,580	-15.7	-26.8	09	4.9
350	31	8,577	-22.4	-34.3	09	4.2
300	30	9,687	-30.9	-42.9	08	5.[illegible]
250	30	10,954	-41.1		06	5.8
200	30	12,430	-53.7		05	6.3
175	30	13,275	-60.6		05	6.7
150	30	14,217	-68.4		05	4.8
125	30	15,292	-75.2		06	5.2
100	30	16,566	-80.2		07	10.4
80	30	17,843	-74.2		08	10.1
70	28	18,631	-69.7		08	7.9
60	28	19,561	-65.0		07	4.7
50	28	20,684	-61.4		08	2.5
40	27	22,078	-57.9		07	2.0
30	27	23,913	-52.8		14	1.9
25	26	25,094	-50.5		16	1.4
20	24	26,558	-47.2		12	2.3
15	18	28,472	-43.6		14	3.2
10	5	31,210	-40.2			

YUCCA FLAT, NV
882 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	1,[illegible]96	4.6	-6.8	27	.7
1000						
950						
900						
850	31	1,5[illegible]2	[illegible]	-4.2	29	.8
800	31	2,0[illegible]	9.6	-6.5	2[illegible]	2.2
750	31	2,54[illegible]	5.5	-[illegible].5	21	3.6
700	31	3,1[illegible]3	3.2	-12.6	2[illegible]	4.9
650	31	3,700	-.4	-16.2	23	5.5
600	31	4,335	-4.3	-2[illegible].2	25	[illegible].1
550	31	5,016	-8.6	-2[illegible].8	26	8.6
500	31	5,747	-13.6	-29.4	26	9.6
450	31	6,540	-[illegible]9.4	-34.9	25	[illegible].9
400	31	7,404	-25.9	-4[illegible].2	26	[illegible].9
350	31	8,359	-33.1	-45.8	26	[illegible]3.6
300	31	9,422	[illegible]	-5[illegible].8	26	[illegible]4.2
250	31	10,639	[illegible]		27	[illegible]0.9
200	31	12,075	-5[illegible].6		27	[illegible]
175	31	12,916	-59.6		26	[illegible]
150	31	13,875	[illegible]		2[illegible]	[illegible]
125	31	14,998	[illegible]		27	[illegible]
100	31	16,356	[illegible]		26	[illegible]
80	30	17,723	[illegible]		26	9.1
70	30	18,54[illegible]	[illegible]		27	[illegible].0
60	30	19,498	-60.9		27	4.6
50	29	20,639	-58.5		27	4.[illegible]
40	28	22,050	-56.0		27	2.9
30	24	23,887	-54.8		27	2.5
25	23	25,064	-53.[illegible]		29	2.7
20	23	26,507	-51.8		29	2.8
15	18	28,370	-49.3		27	5.7
10						

SOLAR RADIATION INTENSITIES

Tabulated in langleys per minute on a surface normal to the direction of the sun.

OCTOBER 1975

ALBUQUERQUE, NEW MEXICO

Date	Sun's zenith distance								
	A.M.				*	P.M.			
	78.7°	75.7°	70.7°	60.0°		60.0°	70.7°	75.7°	78.7°
	Air mass								
	4.19	3.35	2.51	1.67	*	1.67	2.51	3.35	4.19
1-----	.77	.87	.97	1.14	1.27	1.14	.99	.85	.77
2-----	.75	.83	.97	1.15	1.31	1.18	1.04	.93	.81
3-----	.78	.89	1.01	1.16	1.34	1.22	1.02	.88	.78
4-----	.89	.97	1.09	1.26	1.35	1.25	1.11	.99	.92
5-----	.88	1.03	1.14	1.30	1.39	1.20	1.07	.97	.84
6-----	.92	1.00	1.08	1.27	1.38	1.29	1.11	.96	.86
7-----	.87	1.00	1.10	1.25	1.34	1.13	.99	.87	.81
8-----	.76	.86	1.01	1.20	1.35	1.17	1.02	.90	.80
9-----	.84	.94	1.06	1.25	1.38	1.25	1.10	1.01	.89
10----	.90	1.00	1.12	1.25	1.40	1.25	1.04	.93	.85
11----	.83	.95	1.07	1.23	1.36	1.23	1.03	.89	.81
12----	.81	1.00	1.10	1.25	1.36	1.21	1.00	.84	.69
13----	(.87)	(.96)	(1.07)	----	1.44	1.33	1.18	1.05	.94
14----	.98	1.06	1.18	1.33	1.45	1.11	1.15	1.02	.92
15----	.83	.93	1.05	1.25	1.40	1.23	1.06	.95	.84
16----	.93	1.03	1.13	1.26	1.39	1.25	1.16	1.05	.95
17----	.82	.94	1.08	1.22	1.35	1.18	1.00	.92	.79
18----	.92	1.01	1.12	1.28	1.38	1.28	1.08	.96	.86
19----	----	----	----	----	1.38	1.30	1.12	.98	.90
20----	.86	.96	1.08	1.22	1.36	1.21	1.06	.99	.84
22----	.92	1.02	1.13	1.29	1.37	1.22	1.11	.99	.88
23----	----	----	----	----	----	----	.72	.61	.49
24----	.94	1.05	1.10	1.32	1.42	1.35	1.21	1.08	.98
25----	.81	.96	1.04	1.26	1.37	1.27	1.14	.99	.90
26----	----	----	1.15	1.31	1.40	1.26	1.11	1.00	.89
27----	.94	1.05	1.16	1.30	1.38	1.32	1.16	1.06	.97
28----	.95	1.04	1.13	----	1.40	----	----	----	----
29----	.89	1.00	1.13	1.27	1.35	1.28	1.14	1.03	.94
30----	.88	.98	1.06	1.22	----	1.19	1.00	----	----
31----	.85	.94	1.07	1.26	----	----	.94	----	----
Averages	.87	.97	1.09	1.25	1.37	1.23	1.06	.95	.85

MADISON, WISCONSIN

Date	Air mass								
	4.69	3.75	2.81	1.88	*	1.88	2.81	3.75	4.69
2-----	S .90	S 1.01	S 1.13	S 1.26	S 1.33	S 1.21	S 1.05	S .92	S .83
3-----	S .79	S .89	S 1.01	S 1.14	S 1.28	S 1.17	S 1.02	S .86	S .75
4-----	I .74	M .85	M .99	S 1.16	S 1.29	S 1.21	S 1.06	S .95	S .86
6-----	S .87	S .97	S 1.07	S 1.22	S 1.30	S 1.21	S 1.05	S .92	S .83
7-----	M .80	M .89	M 1.00	S 1.18	S 1.27	S 1.15	S .95	S .79	S .66
9-----	----	----	----	----	----	----	M 1.03	M .96	M .76
10----	----	----	----	----	----	S 1.15	M .96	M .85	I .73
11----	M .84	S .93	S 1.03	S 1.15	S 1.22	M 1.14	M .98	----	I .72
12----	----	----	----	----	M 1.13	M 1.06	M .90	M .76	S .67
16----	M .83	M .93	S 1.06	S 1.20	S 1.28	----	----	----	----
17----	S .61	S .89	S 1.03	----	----	----	----	M .88	M .78
18----	M .89	M .99	M 1.11	----	----	S 1.22	S 1.04	S .90	S .82
19----	----	----	----	----	----	----	S .93	S .80	S .74
25----	S .90	S 1.01	S 1.14	S 1.28	S 1.32	S 1.26	S 1.10	S .97	S .88
26----	M .83	M .95	M 1.06	M 1.21	----	----	----	----	----
29----	S .92	S 1.01	S 1.13	S 1.26	S 1.29	S 1.24	----	----	----
Averages	.83	.94	1.06	1.21	1.27	1.18	1.01	.88	.77

OMAHA, NEBRASKA

Air mass

NO DATA RECEIVED

BLUE HILL OBSERVATORY, MASSACHUSETTS

Date	Sun's zenith distance								
	A.M.				*	P.M.			
	78.7°	75.7°	70.7°	60.0°		60.0°	70.7°	75.7°	78.7°
	Air mass								
	4.89	3.92	2.94	1.96	*	1.96	2.94	3.92	4.89
3-----	.61	.69	.76	.84	.91	.85	.75	.66	.59
4-----	.44	.52	.60	.73	.89	----	.74	.64	.57
7-----	.71	.78	.86	.94	1.00	.93	.85	.76	.68
24----	.42	.50	.62	.73	.80	.73	.60	.48	.41
27----	----	----	.84	----	.95	.92	.81	.72	.64
31----	.70	.73	.83	.92	.94	.84	.66	.58	.63
Averages	.58	.64	.75	.83	.92	.85	.74	.64	.59

MAUNA LOA OBSERVATORY, HAWAII

Date	Air mass								
	3.36	2.69	2.01	1.34	*	1.34	2.01	2.69	3.36
1-----	1.18	----	----	----	1.62	----	----	1.28	1.21
2-----	1.14	1.23	1.34	1.47	1.60	1.50	1.34	1.25	1.17
3-----	1.15	1.24	1.34	1.47	----	1.47	1.36	1.26	1.18
4-----	----	----	----	----	1.62	1.48	1.37	1.29	1.22
5-----	1.17	1.26	1.36	1.48	----	----	----	----	----
6-----	1.20	1.29	1.38	1.50	1.58	1.45	1.35	1.25	1.18
7-----	----	----	----	1.47	----	1.47	1.33	1.25	1.17
8-----	1.22	1.30	1.40	1.51	----	----	----	----	----
9-----	1.17	1.26	1.37	1.48	----	----	----	----	----
15----	1.08	----	----	----	1.56	1.41	----	1.23	1.15
16----	1.21	1.27	1.37	1.47	----	----	----	----	----
17----	1.24	1.31	1.40	----	1.62	1.40	1.32	----	1.26
18----	1.27	1.33	1.42	1.53	1.61	1.44	----	----	----
21----	1.21	1.28	1.36	1.46	1.64	----	----	----	----
25----	----	----	----	----	1.65	----	----	----	----
27----	----	----	----	1.55	1.66	1.51	1.38	1.30	1.20
28----	1.22	1.30	1.39	1.51	1.62	----	----	----	----
29----	1.14	1.23	1.35	1.49	1.61	1.46	1.34	1.23	1.16
30----	1.22	1.30	1.39	1.50	----	----	----	----	----
Averages	1.19	1.27	1.37	1.49	1.62	1.46	1.35	1.26	1.19

TUCSON, ARIZONA

Date	Air mass								
	4.64	3.71	2.78	1.86	*	1.86	2.78	3.71	4.64
1-----	----	----	----	----	1.16	.94	.74	.61	.53
2-----	.73	.85	.98	1.18	1.33	1.10	.90	.80	.69
3-----	.88	.97	1.10	1.27	1.42	1.26	1.05	.94	.83
4-----	.88	.98	1.11	1.27	1.43	1.28	1.11	.99	.90
5-----	.82	.93	1.04	1.22	1.38	1.14	.94	.81	.70
6-----	.79	.91	1.04	1.22	----	----	----	----	----
7-----	.83	.93	1.06	1.24	1.36	1.20	1.03	.90	.81
8-----	.84	.94	1.06	1.19	1.37	1.24	1.09	.99	.91
9-----	.90	.99	1.11	1.27	1.40	1.22	1.02	.89	.82
10----	.86	.96	1.09	1.28	1.40	1.26	1.12	1.01	.91
11----	.92	1.01	1.15	1.30	1.38	1.29	1.13	1.01	.92
12----	1.00	1.10	1.22	1.36	1.44	1.32	1.15	1.01	.93
13----	.85	.93	1.11	1.27	1.43	1.35	1.21	1.08	.97
14----	.90	1.00	1.10	1.30	1.45	1.31	1.11	.99	.88
15----	.94	1.02	1.14	1.29	1.44	1.30	1.11	.99	.90
16----	.93	1.02	1.15	----	1.39	1.24	1.06	.94	.83
17----	.91	1.01	1.12	1.27	1.36	1.16	1.04	.92	.83
18----	.87	.94	1.09	1.27	----	1.22	1.07	.94	.85
19----	.93	.98	1.10	1.24	----	----	----	.91	.78
20----	----	.94	1.06	1.23	1.34	1.22	----	----	.82
21----	.74	.82	.94	----	----	1.14	----	.88	.78
22----	.80	.90	1.05	1.23	1.35	1.24	1.09	.99	.91
23----	.79	.91	1.00	----	----	D .89	D .61	D .53	D .42
24----	.94	1.02	1.13	1.32	1.41	1.32	1.20	1.07	.96
25----	.86	.95	1.09	1.25	----	1.31	1.16	1.01	.90
26----	.90	1.00	1.14	1.31	1.44	1.23	1.11	.98	.88
27----	.94	1.05	1.15	1.31	1.43	1.31	1.17	1.01	.93
28----	.93	1.03	1.16	1.32	1.42	1.30	1.09	1.02	.90
29----	.91	.99	1.12	1.26	1.38	1.26	1.05	.92	.79
30----	.86	.95	1.08	1.25	1.34	1.25	1.09	.97	.88
31----	----	----	----	----	1.40	1.25	1.04	.91	.79
Averages	.87	.97	1.09	1.27	1.39	1.23	1.06	.93	.83

SOLAR RADIATION TOTALS

Daily totals and monthly averages of solar radiation (direct and diffuse) received on a horizontal surface, tabulated in langleys.

OCTOBER 1975

Station	Day of month																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Avg.
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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NET RADIATION

Net radiation in langleys per day (8 a.m. to 8 a.m.) at Palmer, Alaska.

OCTOBER 1975

Date.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Avg.
Langleys. . .	- 1	- 7	15	30	10	- 1	35	21	-17	20	- 3	-13	11	-50	-40	-20	-42	-43	29	3	3	-14	-21	- 1	-48	-41	-53	-54	-101	-124	-113	-22

SOLAR ULTRA-VIOLET RADIATION DATA

Daily totals and monthly average (< 3900 A) at Ames, Iowa

Date. . . .	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Avg.
Langleys. .																																

NO DATA RECEIVED

TOTAL OZONE DATA

These provisional ozone data are obtained from measurements made with a Dobson ozone spectrophotometer, and are applicable approximately to local apparent noon. The data are presented in the code s Ω Ω Ω defined in the August 1962 WMO circular entitled "PUBLICATION OF DATA FOR METEOROLOGICAL RESEARCH, WORLD OZONE DATA."

Units Milli-atmo-cms.

Station	Day of month																															Mean O_3
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	

NO DATA RECEIVED

REFERENCE NOTES

OBSERVED EXTREMES OF TEMPERATURE AND PRECIPITATION -- BY STATES: Dates in this table apply to the ending 24-hour period prior to time of observation. In some cases the actual occurrence is on the calendar date [illegible] of observations.

- + And also on an earlier date or dates.
- D Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch of water equivalent to every 10 inches of snowfall.

CLIMATOLOGICAL DATA - METRIC UNITS: Data from airport unless otherwise specified.

Precipitation data in column headed "Greatest in 24 hours" are computed on a 24-hour basis without regard to calendar day - data may include precipitation with a measurable amount from the last day of the previous month or the first day of the following month.

Wind directions under resultant direction are in tens of degrees.

Value entered in column "Fastest Mile" is the highest observed 1-minute wind speed when the direction is in tens of degrees. These stations are not equipped with a recording anemometer from which "Fastest Mile data can be evaluated.

- B Number of days maximum 21.1°C. or above for Alaskan Stations.
- Y Peak Gust.
- + And also on an earlier date or dates.
- U Indicates Urban site.
- R Indicates Rural site.
- Ø Station pressures apply to elevations shown in the "Elevations" table of the annual issue of this publication.

Conversion formulae to English Units are as follows:

1 foot = 0.3048 meters
$F. = \frac{9}{5} C + 32$
1 inch = 25.4 millimeters
1 mile per hour = 0.447 meters per second

HEATING DEGREE DAYS: Data from airport unless otherwise specified.

- U Indicates Urban site.
- R Indicates Rural site.

COOLING DEGREE DAYS: Data from airport unless otherwise specified.

- U Indicates Urban site.
- R Indicates Rural site.

STORM SUMMARY:

- ° Includes crop damage.
- C Crop damage.
- * No occurrence of storms or unusual weather phenomena reported.
- @ Includes heavy sleet storm.
- # Freezing drizzle and freezing rain, commonly known as glaze.
- Ø For breakdown of "All Others," and for detailed listing of other storms, see the Environmental Data Service, NOAA, monthly publication STORM DATA.
- ‡ No Storm Data Report received for this State.
- <> Report Incomplete.
- † Storm damages are placed in categories varying from 1 to 9 as follows:
  - 1 Less than $50
  - 2 $50 to $500
  - 3 $500 to $5,000
  - 4 $5,000 to $50,000
  - 5 $50,000 to $500,000
  - 6 $500,000 to $5 Million
  - 7 $5 Million to $50 Million
  - 8 $50 Million to $500 Million
  - 9 $500 Million to $5 Billion.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS:

- 1/ Flooding continued at the end of the month.
- NA Not available.

FLOOD STAGE DATA:

- # Highest Stage Observed
- 1/ Continued at end of month
- ___ Highest Stage of Record
- E Estimated
- P Provisional (Flood Stage)
- U Unknown

RAWINSONDE DATA (Average Monthly Values):

All observations scheduled at 1200, G.C.T. Pressures shown under station names are the average monthly station pressures for the month of record, corrected to the height of the floors of the instrument shelters used for rawinsonde purposes. "Number of observations" refers to those of dynamic height only. Although the number of temperature observations at any given pressure surface is usually the same as for height, it is possible for temperature to be missing for one or more pressure surfaces of some observations. Dew Point averages are limited to those observations with temperatures warmer than -40°C. Observations of wind speed and direction are sometimes lost due to limiting angles, i.e., elevation angles less than 6° above the horizon, or any obstruction above the horizon. The temperature and wind values are based on 15 or more observations at the surface or 5 observations at a standard pressure level for temperature and 10 for wind. Dew Point data are not published for standard pressure surfaces for which less than 5 observations are available. Dew Point data are computed and expressed on the basis of vapor pressure over water. Unless otherwise indicated, they are obtained from carbon hygristors. These average values for standard pressure surfaces were obtained by rawinsondes; dynamic height (geopotential) in units of .98 dynamic meter, temperature and dew point in degrees Celsius, and resultant winds in tens of degrees and meters per second.

- * Rawinsondes at this station were equipped with hypsometers to permit more accurate evaluations of pressure, and consequently height, at pressures lower than 50 mb. These rawinsondes were carried aloft by special high altitude balloons, in an effort to consistently reach higher altitudes.
- + Observations for these stations are scheduled at 0000 G.C.T.
- † Dew Point temperatures are based on a minimum of 5 observations. Therefore, due to the lesser number of Dew Point observations at the higher levels comparison with dry-bulb temperatures should be made with care. Dew Point temperatures replaced Relative Humidity January 1967.

REFERENCE NOTES

SOLAR RADIATION INTENSITIES: Langley is the unit used to denote one gram calorie per square centimeter. An explanation of the formula used in computing the air mass values for each station appears in the February 1957 issue, Vol. 8, No. 2, page 63, of this publication.

()	Clouds Present
*	Values corresponding to true solar noon
BD	Blowing Dust
BN	Blowing Sand
D	Dust
DI	Intense Dust
DM	Moderate Dust
DS	Slight Dust
F	Fog
GF	Ground Fog
H	Haze
HI	Intense Haze
HM	Moderate Haze
HS	Slight Haze
I	Intense Haze-indeterminable
K	Smoke
KI	Intense Smoke
KM	Moderate Smoke
KS	Slight Smoke
M	Moderate Haze-indeterminable
N	Sand
S	Slight Haze-indeterminable

SOLAR RADIATION TOTALS: Langley is the unit used to denote one gram calorie per square centimeter.

* Values with an asterisk are interpolated.
Data are only for those stations equipped with Eppley Model II sensors.

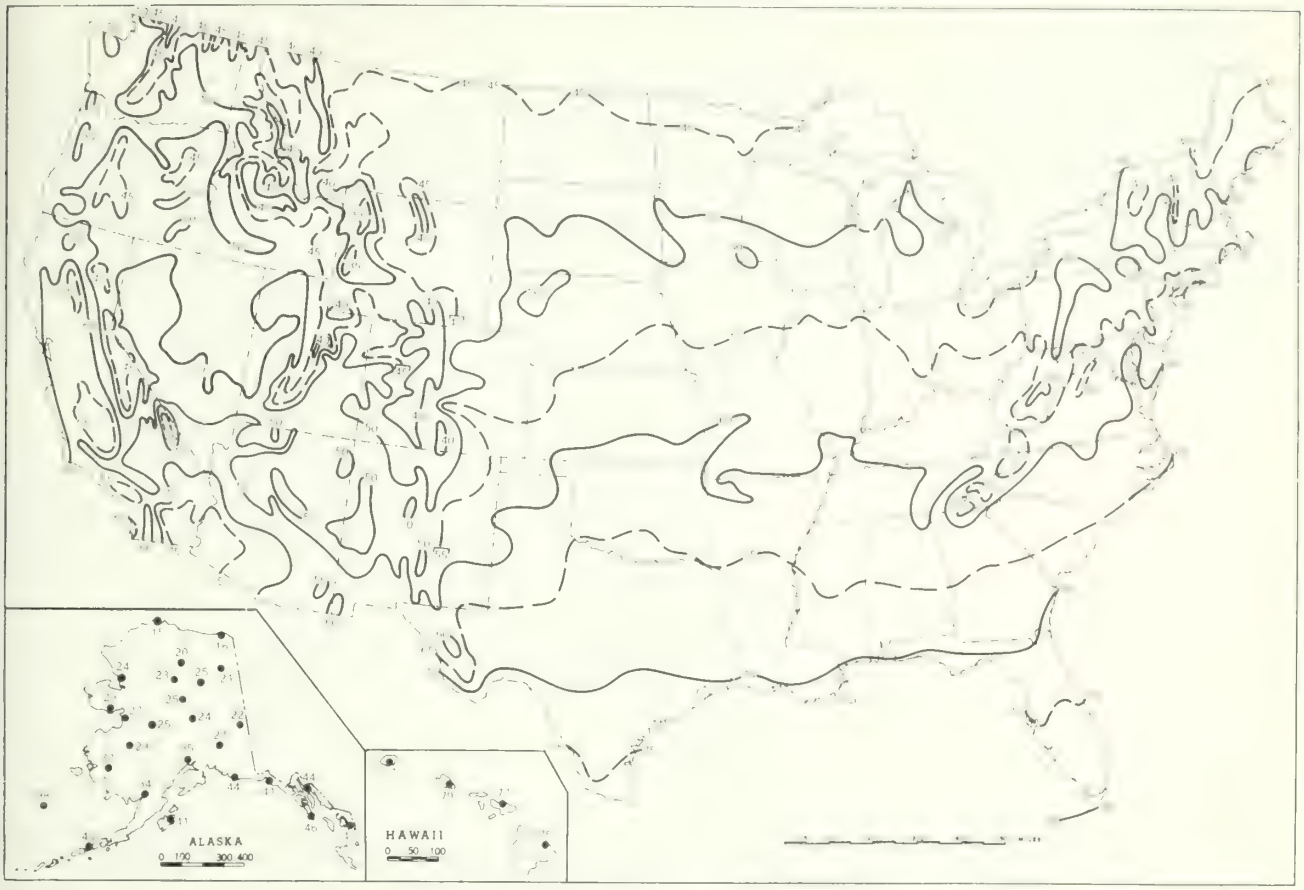
NET RADIATION: The measurement is made with a CSIRO FUNK net exchange radiometer over a plot of sod. The value represents the total incoming minus the total outgoing radiation of all wave lengths.

These data are of an experimental nature and are published as received from the Palmer Exp. Station. The instrument with which they were measured has not been checked by the NOAA, National Weather Service.

SOLAR ULTRA-VIOLET RADIATION DATA: These data are from an U-V Eppley total ultra violet sensor and Speedomax H (Leeds Northrup) Recorder. This instrument has not been checked by the NOAA, National Weather Service.

TOTAL OZONE DATA: The spectrophotometer measures the total amount of ozone in the atmosphere, i.e., the amount contained in a vertical column of air extending from ground level to the top of the atmosphere in the vicinity of the station. The amount of ozone in this column (coded $\Omega \Omega \Omega$) is expressed in terms of a thickness of a layer it would occupy at standard temperature and pressure, e.g., 350 milli-atmo-cm ozone implies an ozone layer 0.350 centimeter thick. The code λs designates the type of measurement made.

Chart 1. A. Normal Daily Average Temperature (°F. 1941-70), October.


ALASKA
0 100 300 400
HAWAII
0 50 100

B. Temperature Departure from 30 - Year Mean (°F 1941-70), October 1975

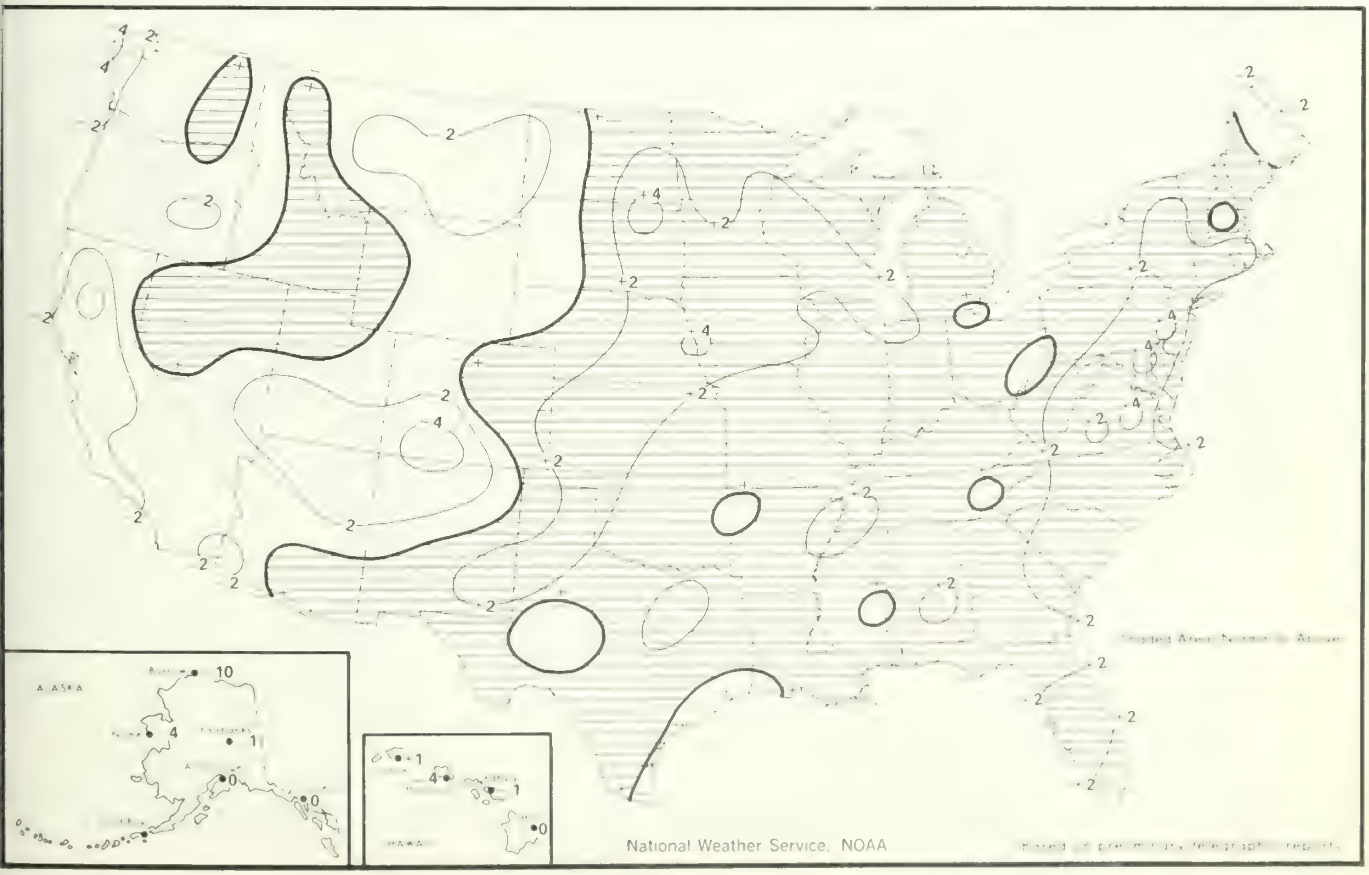
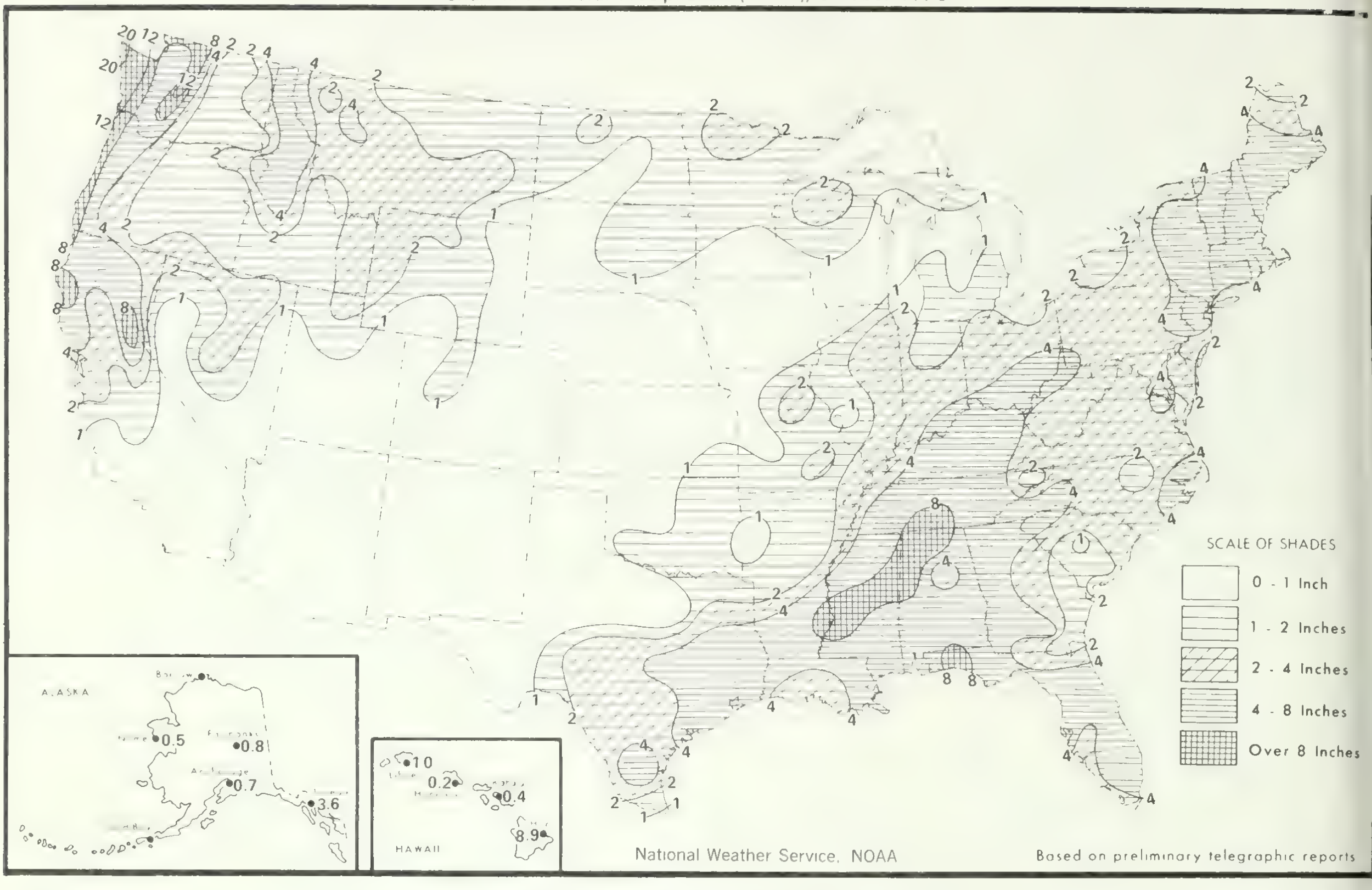

ALASKA
Barrow 10
Nome 4
Fairbanks 1
0
0
+1
4
1
0
+4
+2
+2
+4
+2
2
4
2
2
2
Shaded Areas Normal or Above
National Weather Service, NOAA
Based on preliminary telegraphic reports

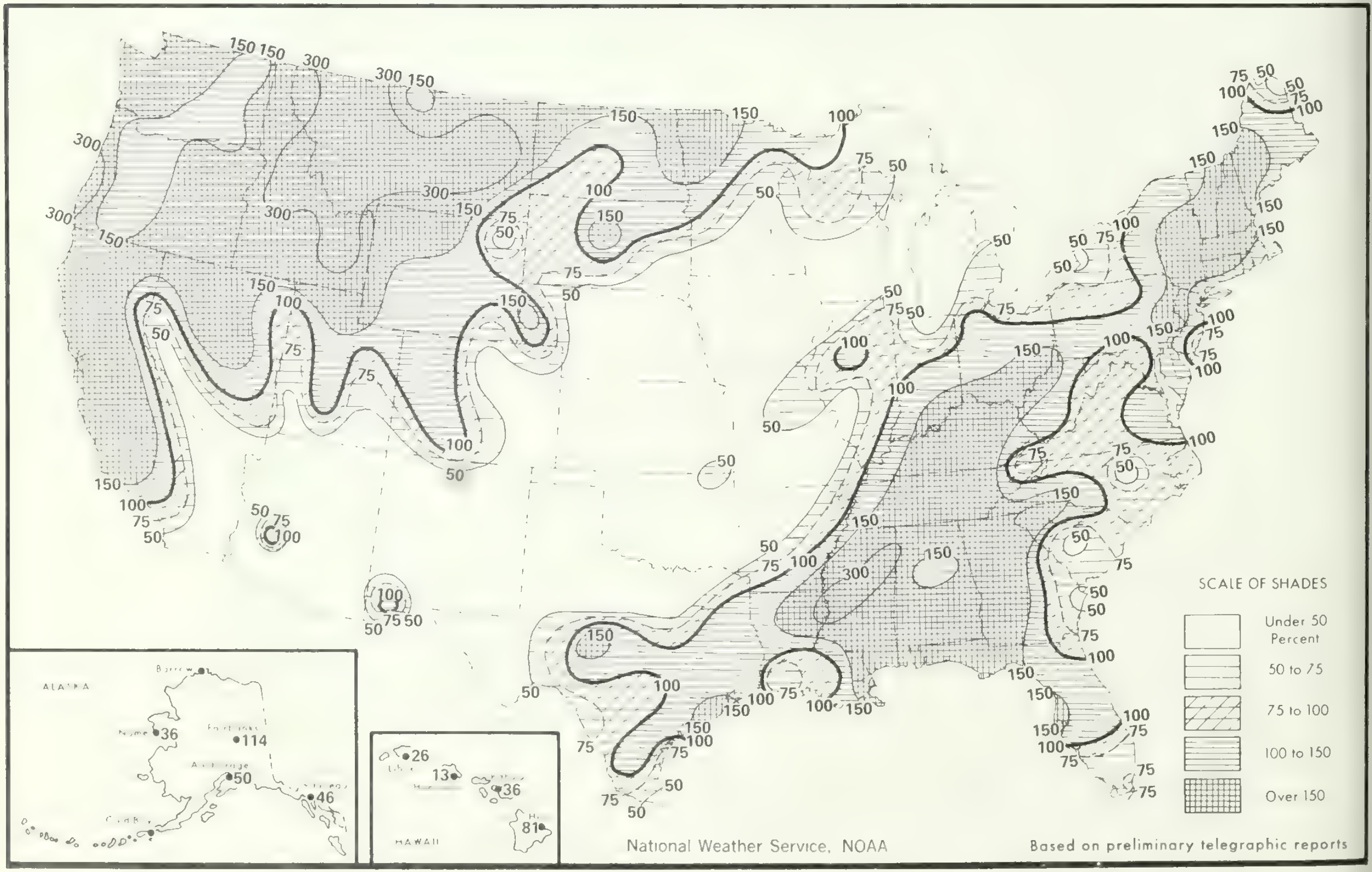
Chart II. A. Total Precipitation (Inches), October 1975


SCALE OF SHADES
0 - 1 Inch
1 - 2 Inches
2 - 4 Inches
4 - 8 Inches
Over 8 Inches
ALASKA
0.5
0.8
0.7
3.6
HAWAII
1.0
0.2
0.4
8.9

National Weather Service, NOAA

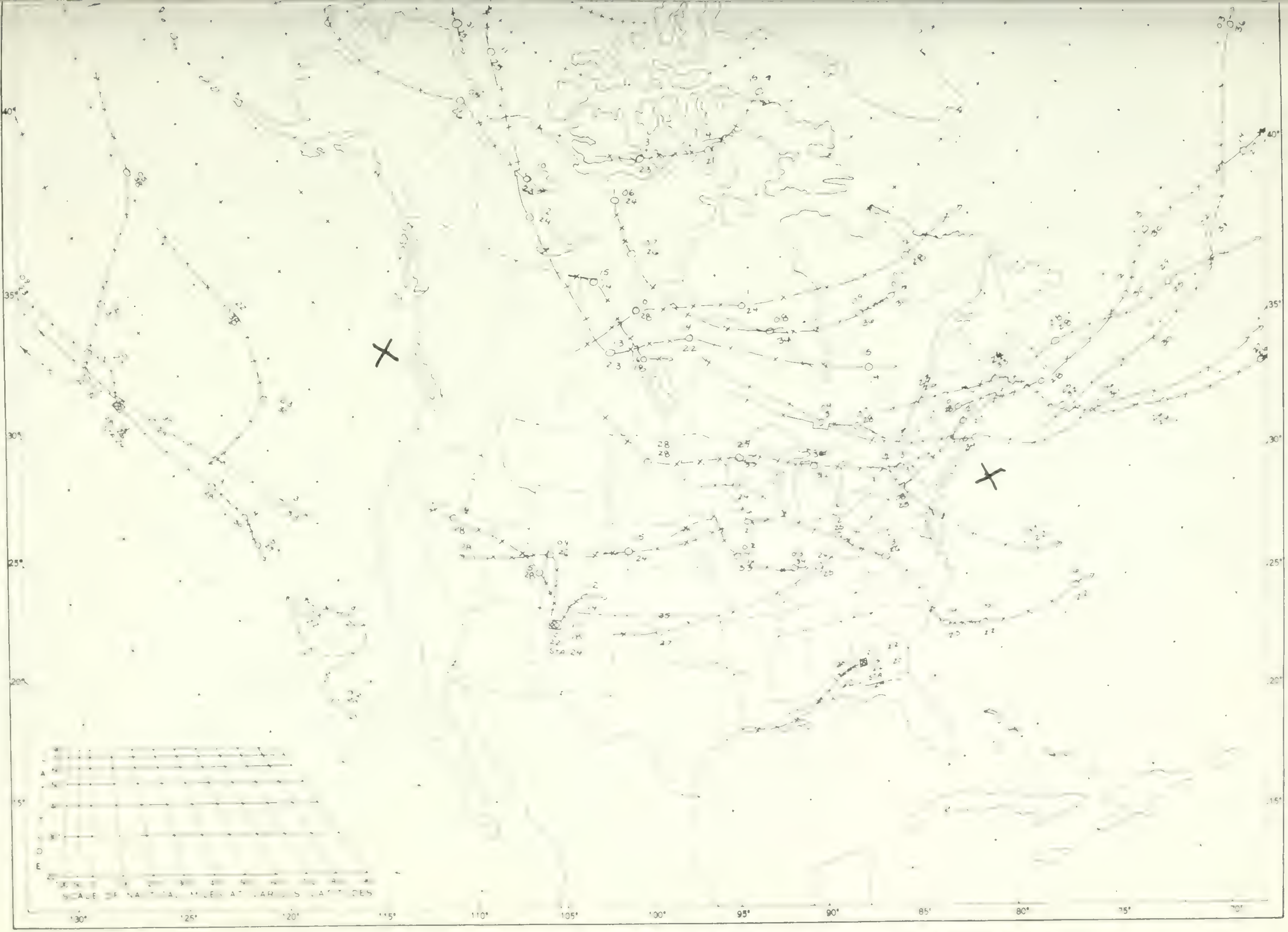
Based on preliminary telegraphic reports

B. Percentage of Normal Precipitation, October 1975


SCALE OF SHADES
Under 50 Percent
50 to 75
75 to 100
100 to 150
Over 150
ALASKA
36
114
50
46
HAWAII
26
13
36
81

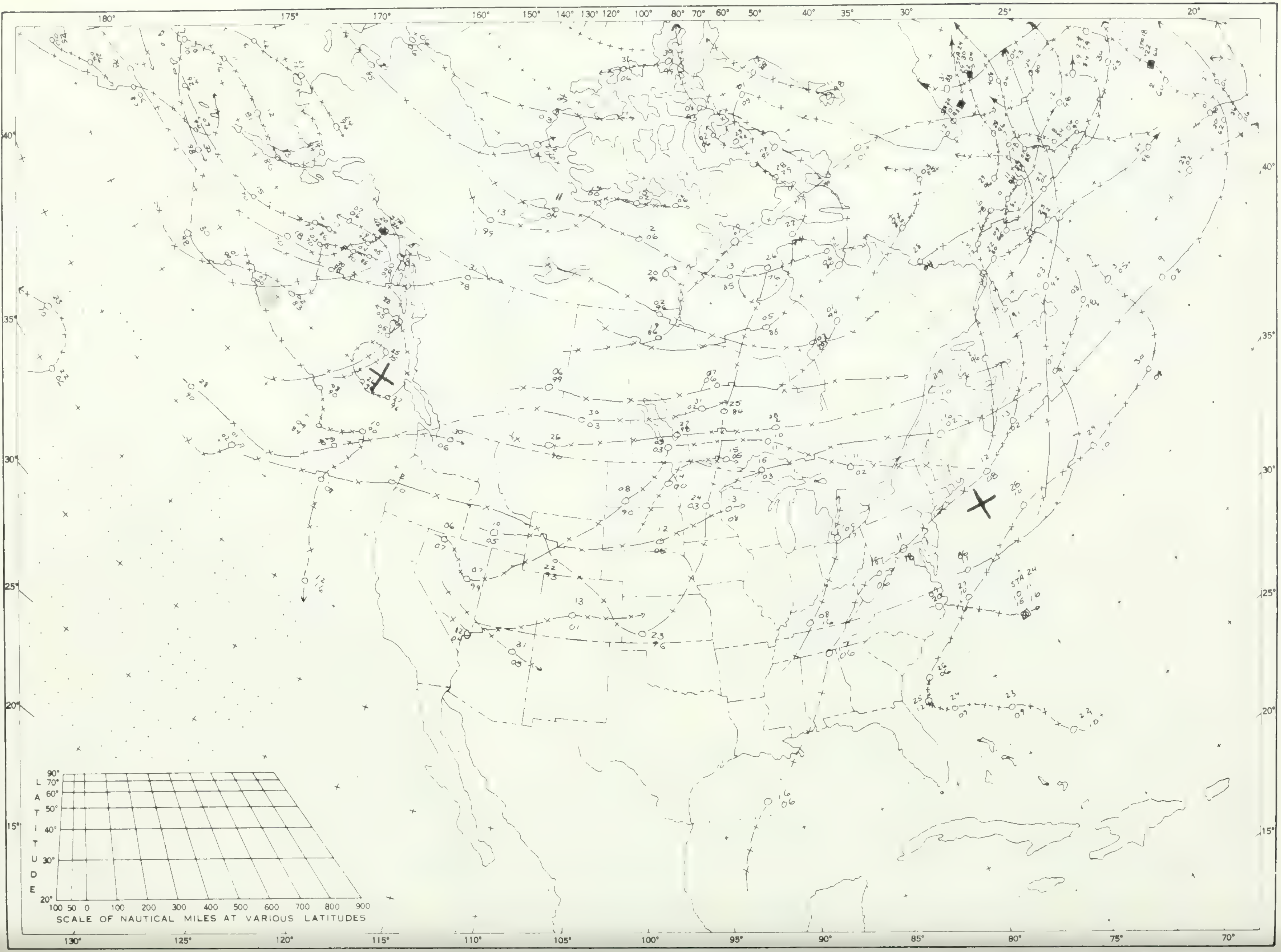
National Weather Service, NOAA

Based on preliminary telegraphic reports


40°
35°
30°
25°
20°
15°
130°
125°
120°
115°
110°
105°
100°
95°
90°
85°
80°
75°
70°
SCALE OF NAUTICAL MILES AT VARIOUS LATITUDES

Circle indicates position of center at 7:00 a.m. E.S.T. Figure above circle indicates date, figure below, pressure to nearest millibar. X's indicate intervening 6 hourly positions. Squares indicate position of stationary center for period shown. Dashed line in track indicates reformation at new position. Only those centers which could be identified for 24 hours or more are included.

Chart IV. Tracks of Centers of Cyclones at Sea Level, October 1975


SCALE OF NAUTICAL MILES AT VARIOUS LATITUDES
LATITUDE
100 50 0 100 200 300 400 500 600 700 800 900
90° 70° 60° 50° 40° 30° 20°
130° 125° 120° 115° 110° 105° 100° 95° 90° 85° 80° 75° 70°
180° 175° 170° 160° 150° 140° 130° 120° 100° 80° 70° 60° 50° 40° 35° 30° 25° 20°
40° 35° 30° 25° 20° 15°

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AMERICAN REVOLUTION BICENTENNIAL
1776-1976

NOVEMBER 1975 VOLUME 26 NUMBER 11

CLIMATOLOGICAL DATA

NATIONAL SUMMARY

DEPARTMENT OF COMMERCE • UNITED STATES OF AMERICA •

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Thomas D. Potter
DIRECTOR
NATIONAL CLIMATIC CENTER

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL DATA SERVICE / NATIONAL CLIMATIC CENTER ASHEVILLE, N.C.

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CHARTS I-IV

NOTE: Late reports and corrections will be carried in the June and December issues of this publication. An explanatory page "Description of Charts" will be carried in the January and July issues.

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CLIMATOLOGICAL DATA

NATIONAL SUMMARY

NOVEMBER 1975

GENERAL SUMMARY OF WEATHER CONDITIONS

Dr. Richard E. Felch, Climatologist

Extreme dryness in parts of the Great Plains was relieved by abundant November moisture that at times occurred as blinding blizzards. In general, precipitation across the Nation was greater than normal. Major exceptions were the Far West, most of Texas, and the Southern Atlantic Coast. Rainfall amounts ranged from a trace at Las Vegas to over 24 inches at Quillayute, WA. Temperatures in the northeast quadrant were well above normal.

November began with fair skies across most of the Nation except for very welcome moisture in the central Great Plains. Rainfall activity spread across the eastern United States on the 2d, accompanied by record warmth that continued most of the week. Weekly temperatures averaged 12 to 20° above normal. Heaviest rainfall amounts were associated with strong thundershower activity in Louisiana. Over 8 inches in New Orleans on the 5th caused some serious flooding. Colder air pushed across the Rockies on the 8th and triggered some tornado activity in northeast Iowa on the 9th.

Temperatures averaged near normal from the 10th to the 16th, when very warm conditions early in the week turned quite cold. Freezing temperatures moved into northern Florida the morning of the 15th. Heaviest precipitation occurred across the Southeast and along the northern edge of the Pacific Coast. At midweek, wintry weather dropped as much as 9 inches of snow in the western Great Lakes area. Showers and thundershowers were widespread from the Ohio Valley to the Louisiana Delta.

A severe winter storm began building up over the central Rockies on the 17th. The storm dumped heavy snow across the Rockies and moved into the Great Plains on the 18th. Whipped by 40 m.p.h. winds, blizzard conditions spread from eastern Colorado to the Great Lakes by the 20th. Heaviest snow occurred from eastern Nebraska into northern Minnesota. Snow closed roads throughout the area with zero visibilities, high winds, and huge drifts. As skies cleared, unseasonably cold air covered most of the Nation.

Unseasonably cold temperatures put most of the Nation in the grip of winter during the closing week of November. Temperatures averaged 6 to 24° below normal over the Rockies and Great Plains. Winter storms blanketed parts of the Rockies and Great Plains with snow as far south as the Texas Panhandle on the 25th.

Widespread storms on the 26th forced some holiday travelers to change their plans. One storm drifted across the middle Mississippi Valley and a second moved into the Plains from the northern Rockies. Hazardous travel conditions existed in portions of the Plains and the upper two-thirds of the Mississippi Valley. Snow spread into New England on Thanksgiving Day. The month ended with extremely cold conditions in many parts of the country.

In general, November weather favored agriculture. Row crop harvests of corn and soybeans were completed well ahead of normal and farmers made excellent progress in preparing fields for next year. Moisture during the month relieved very dry conditions in the Great Plains. Citrus crops that matured faster than usual benefitted from cooler temperatures later in the month.

OBSERVED EXTREMES OF TEMPERATURE AND PRECIPITATION -- BY STATES

NOVEMBER 197

STATE	Temperature						Precipitation			
	Monthly extremes						Monthly extremes			
	Station	Highest	Date	Station	Lowest	Date	Station	Greatest	Station	Least
		°F			°F			In.		In.
Alabama	Brantley	88	6	Haleyville 3 NE	15	27	Robertdale	15.13	Centerville WSMO	1.1
Alaska	Ketchikan	51	4	Tok	-47	2	Mac Leod Harbor	20.12	4 Stations	.0
Arizona	3 Stations	96	6+	3 Stations	-11	30	Sierra Ancha	3.75	Dateland Whitewng Ranch	.0
Arkansas	Mammoth Spring	87	8	2 Stations	5	27	Helena	8.74	Carpenter Dam	2.2
California	Canoga Park Pierce Col.	99	3	White Mountain 2	-12	29	Elk Valley	10.37	40 Stations	.0
Colorado	Las Animas	81	7	2 Stations	-28	26+	Wolf Creek Pass 1 E	3.96	Kauffman 4 SSE	.0
Connecticut	Bridgeport WSO AP	78	4	Wigwam Reservoir	15	25+	Norwich Pub. Util. Plant	7.36	Woodbury	4.1
Delaware	Milford 2 WSW	80	5	2 Stations	25	1	Georgetown 5 SW	4.51	Wilmington WSO AP	2.6
Florida	5 Stations	90	12+	Fountain 3 SSE	22	25	Milton Exp. Station	7.01	Archbold Biologic Station	.1
Georgia	2 Stations	88	7+	Blairsville Exp. Station	20	26+	Clayton 1 SSW	6.45	Atkinson	.3
Hawaii	Makahuena Point 940.1	90	8	Mauna Loa Slope Obs.	29	23+	Mona Tunnel 2 716, Oahu	21.58	Puako 95.1, Hawaii	.4
Idaho	2 Stations	74	5+	2 Stations	-26	30	Avery Ranger Station 2	6.13	Chilly Barton Flat	.1
Illinois	2 Stations	80	9+	Mount Carroll	4	28	Newton 6 SSE	5.73	La Salle 1 S	.8
Indiana	7 Station	81	7+	Whitestown	12	29	Plymouth Power Substation	5.83	Brookville	1.6
Iowa	Storm Lake 2 E	77	5	Hawarden	- 7	25	Lamoni	5.99	Sibley	1.6
Kansas	Lakin	83	1	Atwood	- 9	26	Goessel	6.15	Elkhart	.9
Kentucky	Pikeville	86	8	4 Stations	17	29+	Hickman 1 E	6.38	College Hill Lock 11	.9
Louisiana	Woodworth State Forest	87	3	Ashland 2 S	18	27	New Orleans Moisant WSO AP	11.35	Columbia Locks	1.2
Maine	2 Stations	73	7+	Houlton FAA AP	- 8	27	Jonesboro	8.37	Jackman	2.0
Maryland	2 Stations	83	8+	Oakland 1 SE	15	24+	Blackwater Refuge	5.10	Westernport UPRC	.9
Massachusetts	Chester 2	81	9	Chester 2	13	1	Rochester	7.90	Lanesboro	4.4
Michigan	Sandusky	79	6	Ironwood	-16	26	Ontonagon	7.06	East Tawas	1.54
Minnesota	Redwood Falls FAA AP	79	4	Tower 3 S	-22	26+	Rosemount Agri. Exp. Sta.	5.74	Roseau 1 E	.2
Mississippi	Monticello	86	12	University	18	27	Pascagoula 2 ENE	10.60	Newton Exp. Station	1.17
Missouri	3 Stations	83	9+	Seligman	2	27	King City	4.93	Vichy FAA AP	1.76
Montana	Grassrange	85	5	Lakeview	-34	30	Bozeman 12 NE	4.63	Dillon Airport	.1
Nebraska	6 Stations	80	17+	Brownlee	-22	27+	Bloomfield	5.13	Lyman	.14
Nevada	Sunrise Manr Las Vegas	87	4	Montgomery Mntc. Station	-11	29	North Fork 7 NW	2.00	4 Stations	.00
New Hampshire	Greenland	74	7	Mount Washington	2	29+	Mount Washington	6.37	Marlow	2.95
New Jersey	2 Stations	80	9+	Moorestown	19	1	Canistear Reservoir	5.19	Flemington 3 E	2.67
New Mexico	Jal	88	8	Tres Piedras	-21	26	Brazos Lodge	4.03	6 Stations	.00
New York	Troy Lock and Dam 2	83	10	Old Forge	6	29	Hooker 4 N	8.20	Hemlock	1.05
North Carolina	Raleigh-NC State Univ.	86	6	2 Stations	13	26+	Lake Toxaway 2 SW	10.50	Williamston 1 ENE	.81
North Dakota	Velva	82	5	Medora	-17	26	Velva	D 1.65	3 Stations	T
Ohio	4 Stations	81	6	Carpenter 1 S	10	23	Montpelier 1 WSW	3.84	Norwich 1 E	.93
Oklahoma	4 Stations	85	8+	Hooker 2 SW	2	26	Checotah	6.84	Regneir	.86
Oregon	2 Stations	79	5+	Brothers	- 5	19	Valsetz	D22.83	Rome 2 NW	.13
Pennsylvania	Kegg	81	6	Clermont 4 NW	12	24	Port Clinton	5.14	Montgomery Lock and Dam	1.10
Puerto Rico	Magueyes Island	92	5	Adjuntas Substation	54	11	Maricao 2 SSW	17.60	Santa Isabel 2 NE	.15
Rhode Island	Providence WSO AP	76	3	Kingston	22	23+	North Foster 1 E	7.33	Block Island WSO AP	4.69
South Carolina	3 Stations	85	11+	Ridgeland 6 NE	20	26+	Caesars Head	9.26	Charleston WSO CI	.39
South Dakota	Philip	81	5	Deerfield 4 NW	-18	30	Canton 4 WNW	4.57	4 Stations	T
Tennessee	Columbia Sewage Plant	88	9	Mountain City 2	14	28	Moscow	8.07	Unicoi 3 SW	1.26
Texas	Laredo 2	96	8	Lipscomb	1	26	Beaumont City	5.69	32 Stations	.00
Utah	Zion National Park	82	5	2 Stations	-12	30	Alta	9.40	2 Stations	.12
Vermont	3 Stations	73	9+	3 Stations	12	27+	Searsburg Station	5.89	Burlington WSO AP	3.14
Virginia	3 Stations	84	8+	Chilhowie 1 S	11	28	Wakefield 1 NW	3.63	Washington	.77
Virgin Islands	Frenchmans Bay	90	1	Catherineburg	66	12	Castle Nugent	9.52	Tague Bay	3.31
Washington	3 Stations	80	5+	Chesaw 4 NNW	- 8	30	Spruce	28.41	2 Stations	.35
West Virginia	6 Stations	83	7+	Canaan Valley	12	23	Ripley	4.07	Matoaka	.73
Wisconsin	5 Stations	75	6+	Couderay 8 W	-18	26	Ashland Exp. Farm	8.45	Brillion	1.82
Wyoming	2 Stations	78	5	Echeta 2 NW	-34	30	Snake River	3.85	3 Stations	T

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation ground	Pressure		Temperature											Average relative humidity	Precipitation							Wind					No of days (sunrise to sunset)			Sky cover, tenths (sunrise to sunset)	Possible sunshine
												No of days							No of days		Snow, Ice pellets				Fastest mile (1.6 kilometers)							
		Station	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min 0 C or lower	Average dew point		Total	Departure from normal	Greatest in 24 hours	25 mm or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10		
ALABAMA	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m s		m s							%
BIRMINGHAM	189	998.6	1021.5	18.3	6.3	12.3	1.1	27.8	5	-3.3	25	0	7	7.2	75	105	11	61	9	2	T	0	0.2	17	13.9	S	26	9	9	12	6.0	64
HUNTSVILLE	190	998.3	1021.6	17.1	5.7	11.4	1.3	25.6	3	-2.8	26	0	6	6.1	70	91	-7	24	11	3	T	0	0.6	15	14.3	27	30	9	8	13	6.1	
MOBILE	64	1012.5	1020.5	21.8	9.9	15.8	1.1	29.4	5+	0.6	25+	0	0	10.0	73	321	235	178	10	2	0	0	1.2	8	10.3	35	12	12	8	10	5.0	
MONTGOMERY	59	1014.2	1021.7	20.2	7.6	13.9	1.2	30.6	5	-1.7	25+	0	9	8.3	72	102	15	34	10	2	0	0	0.3	6	10.7	NW	20	11	7	12	5.4	54
ALASKA												B																				
ANCHORAGE	35	999.0	1004.0	-6.3	-13.5	-9.9	-3.8	1.1	19	-21.7	3	0	30	-13.9	70	3	-23	2	3	0	51	51	1.7	2	7.6	2	17	8	4	18	6.6	48
ANNETTE	34	1001.7	1005.8	5.3	0.5	2.9	-1.5	10.0	3+	-3.3	28+	0	15	-0.6	79	234	-93	65	20	0	104	25	2.3	15	15.6	15	11+	0	5	25	9.2	
BARROW	9	1012.2	1012.7	-20.9	-27.2	-24.1	-6.0	-5.6	26	-36.7	9	0	30	-26.1	83	2	-6	1	6	0	18	127	0.6	11	11.6	10	20+					
BARTER ISLAND	12	1011.9	1013.9	-20.8	-27.6	-24.2	-6.6	-6.1	27	-35.6	18	0	30	-27.2	75	8	-4	2	8	0	76	127	1.6	22	26.8	26	30					
BETHEL	38	1002.4	1008.2	-9.8	-18.0	-13.9	-5.7	3.3	19	-27.8	16	0	30	-17.8	75	6	-18	3	6	0	86	76	2.4	2	13.0	20	26	12	8	10	4.8	
BETTLES	196			-19.1	-27.7	-23.4	-4.8	-4.4	27+	-36.7	30	0	30			13	-8	6	9		196	229			8.0	24	27	13	4	13	5.2	
BIG DELTA	386			-17.4	-26.6	-22.0	-8.1	-4.4	28+	-40.0	1	0	30			11	1	4	6		264	330										
COLD BAY	29	1000.0	1003.4	1.2	-3.4	-1.1	-2.3	5.6	28+	-10.6	18	0	24	-2.8	85	29	-70	10	19	0	312	305	2.1	35	17.0	3	10+	1	3	26	8.8	
FAIRBANKS	133	993.2	1011.5	-17.6	-26.9	-22.2	-6.0	-1.1	27	-34.4	4	0	30	-27.2	64	11	-6	5	8	0	290	356	0.7	36	9.4	26	27	15	4	11	4.6	
GULKANA	479			-13.2	-22.3	-17.7	-3.3	-8.9	27+	-32.2	2	0	30			T	-19	T	1		25	51										
HOMER	19			-1.6	-9.3	-5.4		7.2	21	-17.2	3	0	26			26	-44	13	8	0	112	76			13.0	24	9	5	7	18	7.0	
JUNEAU	4	1004.1	1004.8	0.6	-4.4	-1.9	-2.2	4.4	25	-11.7	28	0	29	-4.4	82	72	-69	21	17	0	826	330	2.1	10	13.0	12	10	2	2	26	9.0	19
KING SALMON	15	1002.4	1004.2	-6.0	-15.4	-10.7	-5.2	5.6	20	-31.7	15	0	26	-13.9	74	12	-25	6	9	0	99	51	2.4	3	15.6	11	19	12	4	14	5.4	
KODIAK	4	996.3	1000.7	0.3	-6.1	-2.9	-4.4	6.7	26	-16.7	10	0	23	-5.6	80	199	61	49	17	0	521	203	2.5	34	17.4	34	9	6	4	20	7.4	
KOTZEBUE	3	1010.5	1011.0	-15.7	-21.9	-18.8	-5.3	-1.1	26+	-30.0	17+	0	30	-23.9	64	15	5	11	6	0	66	152	3.8	9	19.2	25	27+	18	2	10	4.2	
MC GRATH	105	997.0	1010.5	-17.4	-27.3	-22.4	-7.4	-2.2	27+	-37.2	30	0	30	-25.0	80	7	-20	5	4	0	135	203	0.9	33	7.2	1	11+	14	2	14	5.3	
NOME	4	1008.5	1009.2	-9.1	-18.1	-13.6	-4.5	0.0	20	-27.2	30+	0	30	-16.7	75	9	-16	2	9	0	145	76	1.8	8	14.8	20	26	11	4	15	5.7	48
ST. PAUL ISLAND	7			0.9	-3.9	-1.5	-2.2	5.6	26	-10.0	8	0	25			22	-43	7	16	0	150	127			21.9	14	18	2	7	21	8.2	
SUMMIT	731	916.4	1009.7	-13.8	-19.8	-16.8	-4.4	-2.8	20+	-29.4	2	0	30	-20.6	71	4	-27	2	6	0	69	127	4.8	4	13.9	5	12	11	5	14	5.6	
TALKEETNA	105			-6.9	-18.9	-12.9	-4.9	2.2	19	-29.4	30	0	30			2	-44	1	3	0	58	152			8.9	2	3					
UNALAKLEET	5			-12.7	-20.4	-16.5		1.7	26	-33.3	15	0	30			3		2	4		33	25			23.7	6	18					
VALDEZ	7			-2.4	-7.2	-4.8	-1.5	2.2	26	-15.0	1	0	30			11	-133		6		173				13.0	6	2	8	5	17	6.7	
YAKUTAT	9	1000.3	1001.4	0.6	-5.7	-2.6	-2.7	5.0	21	-12.8	7	0	25	-3.9	88	249	-126	48	22	0	1958	838	2.3	9	11.2	13	11+	1	8	21	8.3	
ARIZONA																																
FLAGSTAFF	2135	787.7	1018.5	12.3	-6.4	2.9	0.5	22.8	4	-19.4	30	0	29	-12.8	39	75	41	57	3	0	640	584	0.4	18	10.3	SW	10+	19	6	5	3.0	86
PHOENIX	340	976.6	1015.8	24.1	7.9	16.1	0.6	33.9	4	1.1	30	2	0	-2.8	33	14	2	14	2	0	0	0	0.8	13	24.6Y	S	28	23	5	2	1.7	90
TUCSON	788	926.9	1014.8	23.4	6.9	15.2	0.4	31.1	5+	-0.6	30	0	2	-5.0	28	9	-6	9	2	0	T	0	1.9	16	20.1	NW	29+	24	3	3	1.7	93
WINSLOW	1492	853.4	1020.6	14.1	-4.8	4.7	-1.6	23.9	6	-12.8	26	0	26	-10.0	40	10	1	10	2	0	43	T	1.4	21	14.8	17	28	18	6	6	3.1	
YUMA	59	1008.5	1015.7	24.8	9.1	16.9	-0.6	32.8	5+	2.2	30	2	0	-3.3	29	1	-5	1	1	0	0	0	2.1	34	11.6	N	11	25	5	0	1.1	94
ARKANSAS																																
FORT SMITH	136	1002.4	1019.1	17.7	3.6	10.7	0.4	29.4	8	-10.6	27	0	12	3.3	66	80	2	23	9	4	69	51	0.4	1	20.1	W	29	12	9	9	4.9	57
LITTLE ROCK	78	1010.2	1019.9	17.4	4.1	10.8	0.6	26.7	8+	-8.3	27	0	10	5.6	72	93	-5	32	7	0	5	0	1.1	21	17.4	WNW	30	13	7	10	4.7	
CALIFORNIA																																
BAKERSFIELD	145	1002.0	1019.8	19.1	6.1	12.6	-0.7	27.2	15+	-0.6	30	0	1	4.4	64	6	-11	3	4	0	0	0	0.5	1	13.4	34	28	16	9	5	3.4	
BISHOP	1252	876.1		16.4	-3.7	6.4	-1.2	25.0	4	-11.7	19	0	26			1	-14	1	1		T	T			25.0Y		10	18	9	3	2.8	
BLUE CANYON	1609	840.2		9.0	0.9	4.9	-2.0	20.0	3+	-10.0	29	0	15	-5.6	54	114	-116	31	11		450	152	1.2	14	8.9	17	9					
EUREKA C	13			13.0	5.3	9.2	-1.8	18.3	14	-0.6	18	0	1			120	-27	53	16		0	0			16.5	SE	9	4	10	16	7.2	33
FRESNO	100	1008.1	1020.1	16.7	2.8	9.7	-2.2	24.4	4	-3.3	29	0	7	5.0	77	5	-26	4	4	0	0	0	0.3	36	11.2	NW	8	11	14	5	4.2	71
LONG BEACH	8	1015.6	1016.9	22.7	9.0	15.9	0.0	31.7	13	3.9	30	0	0	5.0	59	3	-32	3	1	0	0	0	0.9	28	11.2	24	28	14	11	5	3.9	
LOS ANGELES	30	1013.2	1016.7	21.2	10.5	15.9	0.1	31.7	13+	5.0	29	0	0	5.6	61	T	-45	T	0	0	0	0	1.0	28	17.0Y	W	28	18	7	5	3.5	
LOS ANGELES C	82			22.0	10.4	16.2	-0.8	30.0	13+	4.4	30	0	0			0	-51	0	0		0	0			11.6	SW	28	21	5	4	2.6	79
MT SHASTA R	1080	895.4	1022.0	8.6	-2.2	3.2	-2.2	21.7	3	-8.3	11	0	22	-2.2	72	60	-69	24	11		259	178	0.3	4								
OAKLAND	2	1020.7	1020.8	15.6	7.0	11.3	-1.6	24.4	25	2.8	29+	0	0	5.6	71	12	-48	6	7	0	0	0	1.1	31	11.2	31	28+	14	9	7	4.1	
RED BLUFF	104	1007.8	1020.7	16.3	4.4	10.4	-1.7	25.0	3	-2.8	29	0	2	2.8	65	12	-65	9	5	0	0	0	1.8	34	13.4	SE	9	10	11	9	5.6	72
SACRAMENTO	5	1019.3	1020.1	18.4	6.7	12.6	0.9	25.0	25	0.6	29	0	0	5.0	64	7	-47	5	5	0	0	0	0.8	31	16.5	NW	17	14	7	9	4.5	89
SANDBERG R	1377	864.2		12.4	3.4	7.9	-1.1	22.8	4	-5.0	29	0	10			5	-47	5	2		30	25			20.1	30	7					
SAN DIEGO	4	1015.9	1016.9	20.8	10.7	15.8	-0.2	29.4	24	5.6	30	0	0	6.7	60	16	-15	12	2	1	0	0	1.7	30	13.4	W	28	20	3	7	3.4	78
SAN FRANCISCO	2	1020.0	1020.5	16.0	6.4	11.2	-1.7	22.2	25+	2.8	21+	0	0	4.4	65	7	-52	4	4	0	0	0	1.9	30	12.5	30	27	14	8	8	4.1	
SAN FRANCISCO	16			16.3	9.8	13.1	-1.0	24.4	25	7.2	30	0	0			11	-55	5	6			0										
SANTA MARIA	72			20.6	3.5	12.1	-1.3	28.9	24	-2.8	18	0	6			9	-26	8	3		T	0						20	5	5	2.7	
STOCKTON	7	1019.3	1020.3	17.2	3.7	10.4	-1.2	22.8	4+	-3.3	29	0	3	5.0	72	6	-37	4	5	0	0	0	1.3	30	13.0	34	17	15	6	9	4.4	
COLORADO																																
ALAMOSA	2297	771.1		7.0	-13.3	-3.2	-2.0	18.3	17	-28.9	26	0	30			11	5	10	4		150	127						16	7	7	4.0	

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure		Temperature											Average relative humidity	Precipitation							Wind					No of days (sunrise to sunset)			Sky cover, tenths (sunrise to sunset)	Possible sunshine
												No of days							No of days		Snow, Ice pellets				Fastest mile (1.6 kilometers)							
		Station Ø	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min 0 C or lower	Average dew point		Total	Departure from normal	Greatest in 24 hours	25 mm or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10		
COLORADO	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m s		m/s							%
COLORADO SPRINGS	1873	809.7	1017.9	9.7	-4.9	2.4	-0.6	22.8	17	-17.2	21	0	21	-8.3	52	25	14	17	5	0	249	152	2.3	1	17.4	31	11	13	10	7	4.3	
DENVER	1410	835.1	1016.4	10.4	-5.1	2.7	-1.4	23.9	5	-17.2	20	0	22	-7.2	56	48	28	33	7	0	386	178	1.0	22	15.2	NE	25	12	8	10	4.8	75
GRAND JUNCTION	1476	854.0	1020.5	9.4	-4.8	2.3	-2.0	19.4	6	-15.0	30+	0	21	-7.2	54	10	-6	4	8	0	99	25	0.7	8	15.2	NW	29+	13	7	10	4.7	69
PUEBLO	1428	854.7	1016.8	12.3	-5.3	3.5	-1.4	25.6	7	-17.8	22	0	25	-4.4	66	18	7	14	8	0	137	51	0.9	33	24.1	N	25	14	8	8	4.4	84
CONNECTICUT																																
BRIDGEPORT	2	1018.6	1019.1	14.5	6.0	10.3	2.5	25.6	4	-0.6	23	0	1	6.7	80	112	15	52	9	0	T	0	2.0	29	14.8	19	27	5	13	12	6.4	
HARTFORD	52	1012.2	1018.7	14.4	3.5	9.0	3.8	25.0	8+	-3.3	29	0	10	3.3	71	116	6	42	10	1	8	T	1.2	25	13.4	W	21	6	12	12	6.1	52
DELAWARE																																
WILMINGTON	23	1017.3	1020.3	16.3	4.8	10.6	2.9	25.6	5+	-2.2	23	0	6	4.4	67	67	-22	38	7	1	0	0	1.3	27	11.6	19	21+	8	10	12	6.1	
DIST.OF COLUMBIA																																
WASHINGTON DULLES	88	1008.8	1020.6	15.9	0.9	8.4	1.4	25.0	8+	-7.8	26	0	15	3.3	72	42	-36	28	7	0	T	0	1.1	24	11.6	31	14	10	7	13	5.5	
WASHINGTON NATIONAL	3	1018.0	1020.4	18.4	6.4	12.4	3.6	27.2	8+	0.6	29+	0	0	5.0	64	52	-22	39	5	0	0	0	1.1	25	12.1	NW	10	10	7	13	5.9	54
FLORIDA																																
APALACHICOLA U	6	1020.3	1020.8	21.3	11.6	16.5	0.3	26.7	9	0.0	15	0	1	12.2	78	87	19	62	8	1	0	0	1.6	10	10.7	N	12	15	4	11	4.5	62
DAYTONA BEACH	9	1019.0	1020.5	24.2	14.4	19.3	0.9	28.9	12	3.9	24	0	0	13.9	74	37	-17	22	7	1	0	0	1.2	6	10.3	28	13	11	12	7	4.7	
FORT MYERS	5	1019.0	1019.5	26.4	16.4	21.4	0.7	31.7	9	6.1	24	0	0	16.1	75	12	-21	7	4	0	0	0	2.5	6	12.5	31	13	15	8	7	4.3	
JACKSONVILLE	8	1020.7	1021.7	23.2	10.3	16.8	0.6	28.3	12+	-1.1	26	0	2	11.7	77	10	-36	4	7	0	0	0	0.7	4	10.7	NW	13	12	7	11	4.9	64
KEY WEST	1	1017.3	1017.9	26.6	21.6	24.1	0.2	29.4	12+	13.3	15	0	0	18.3	72	23	-45	13	5	1	0	0	4.7	7	12.1	NW	13	11	9	10	5.2	87
LAKELAND U	65			25.1	14.6	19.8	0.5	30.0	4	3.3	24	0	0			83	43	80	6		0	0						13	12	5	4.1	85
MIAMI	2	1018.6	1019.0	25.8	18.9	22.4	0.1	28.9	5+	6.7	15	0	0	17.2	72	71	2	33	10	0	0	0	3.5	6	11.2	4	2	6	15	9	5.4	
ORLANDO/MC COY AFB	29	1016.9	1020.7	25.2	14.1	19.7	0.4	30.6	9	2.8	24	0	0	13.9	74	17	-23	5	7	0	0	0	1.7	4	11.2	30	13	14	8	8	4.7	
PENSACOLA	34	1016.6	1020.9	21.7	10.9	16.3	1.1	28.3	7	0.6	25+	0	0	11.7	76	166	81	91	10	3	0	0	1.7	7	9.4	17	26	15	6	9	4.5	
TALLAHASSEE	17	1019.0	1021.3	22.6	8.2	15.4	0.5	29.4	5	-2.8	26	0	8	10.0	76	38	-33	25	5	2	0	0	0.8	6	9.4	17	26	13	7	10	4.9	
TAMPA	6	1019.6	1020.1	25.6	14.7	20.2	0.8	31.1	9	2.8	24	0	0	13.9	70	6	-40	5	2	0	0	0	2.2	7	11.2	33	13	14	6	10	5.1	68
WEST PALM BEACH	5	1018.6	1019.3	25.8	17.8	21.8	0.2	28.9	10+	6.1	24	0	0	16.1	72	46	-17	34	6	0	0	0	3.1	7	10.7	28	13	6	12	12	5.7	
GEORGIA																																
ATHENS	244	991.9	1021.2	18.7	6.7	12.7	1.8	26.1	5	-2.2	15	0	6	6.7	72	98	12	35	10	1	25	T	0.5	32	8.9	18	20	12	6	12	5.3	
ATLANTA	308	984.1	1021.4	18.0	6.4	12.2	1.4	25.6	5	-2.8	25	0	8	6.1	69	117	30	53	11	0	15	25	0.4	2	12.5	NW	13	11	7	12	5.6	61
AUGUSTA	41	1016.3	1021.5	21.3	6.1	13.7	1.7	27.8	6+	-2.8	15	0	7	7.8	74	54	-2	29	5	0	0	0	0.5	29	9.8	28	13	12	6	12	5.3	
COLUMBUS	117	1007.5		20.4	7.5	14.0	1.6	27.8	5	-1.7	15	0	7	7.8	72	68	-7	22	11	2	T	0	0.6	3	8.9	31	13	11	7	12	5.3	
MACON	108	1008.8	1021.9	20.9	6.6	13.8	0.9	28.3	7	-1.7	26+	0	6	7.8	73	57	-3	35	8	0	0	0	0.3	33	10.7	W	12	12	5	13	5.0	62
ROME	194			18.3	4.3	11.3	1.6	26.7	8+	-3.9	15	0	9			128	32	40	10		T	0										
SAVANNAH	14	1020.0	1021.8	21.6	8.7	15.2	1.2	27.8	9+	-1.7	15	0	3	10.0	75	28	-22	10	5	1	0	0	0.4	2	13.0	W	13	11	4	15	5.5	55
HAWAII																																
HILO	8	1015.6	1016.9	26.9	19.2	23.1	0.0	29.4	27	16.7	23+	0	0	18.9	80	283	-67	104	21	0	0	0	0.7	16	9.8	SE	26+	2	11	17	7.6	30
HONOLULU	2	1015.6	1016.1	29.1	21.1	25.1	0.3	30.6	5+	17.8	18+	0	0	18.9	72	293	217	139	10	3	0	0	4.0	7	13.0	SE	24	2	18	10	6.7	50
KAHULUI	15	1013.5	1015.8	27.7	18.7	23.2	-0.8	30.6	26	15.0	22+	0	0			53	-6	40	8	0	0	0	3.7	5	13.0	E	11	11	10	9	5.4	74
LIHUE	31	1011.9	1017.0	27.4	22.4	24.9	0.9	28.3	27+	19.4	23	0	0	20.0	74	136	-7	53	21	1	0	0	3.6	7	12.5	W	24	3	17	10	6.6	53
IDAHO																																
BOISE	865	918.7	1020.8	9.6	-1.3	4.2	-0.2	22.8	5+	-9.4	29	0	19	-5.0	55	20	-14	6	9	0	99	25	1.2	12	17.9	S	10	8	7	15	6.4	48
LEWISTON	431			9.0	0.2	4.6	[illegible]	23.3	3	-8.9	30+	0	15			14	-18	4	9		28	25			19.2Y		10	2	6	22	8.4	
POCATELLO	1358	864.5	1020.9	6.3	-4.8	0.8	-1.3	21.7	5	-13.9	29	0	26	-5.0	69	24	-3	8	13	0	218	152	3.1	22	17.4	SW	10	6	6	18	7.2	57
ILLINOIS																																
CAIRO U	96			15.4	6.3	10.9	1.8	23.9	2	-5.0	27	0	7			122	24	36	10		T	0			19.2	S	29					48
CHICAGO O HARE	201	991.5	1016.2	13.3	3.5	8.4	4.4	23.9	6	-7.2	25	0	10	3.9	74	64	11	19	17	3	163	152	2.7	22	17.4	23	10	7	6	17	6.8	
CHICAGO MIDWAY	185	994.2	1017.2	13.3	3.4	8.4	3.7	23.9	6	-7.8	30+	0	11	2.8	71	75	19	24	16	3	274	203	2.5	21	19.2	S	30	7	6	17	6.7	42
MOLINE	177	994.6	1016.4	12.3	2.1	7.2	3.2	22.2	9+	-11.7	28+	0	11	2.2	74	76	28	23	12	3	251	203	1.6	21	19.2	SW	9	8	4	18	6.8	39
PEORIA	199	992.9	1017.2	12.0	2.3	7.2	2.8	21.7	9	-8.3	30+	0	13	2.8	75	70	19	29	11	2	206	178	2.4	19	14.8	W	10+	7	4	19	6.9	38
ROCKFORD	221	989.2	1016.6	11.2	0.1	5.7	2.6	20.0	9+	-11.7	28+	0	15	1.7	76	108	47	39	12	3	163	127	1.7	21	17.0	23	30+	9	3	18	6.8	
SPRINGFIELD	179	995.3	1017.7	13.4	3.3	8.4	2.9	25.0	5	-9.4	28	0	11	3.9	75	64	9	27	11	3	216	178	3.0	20	21.9	SW	29	7	8	15	6.6	43
INDIANA																																
EVANSVILLE	116	1005.4	1019.7	14.9	3.7	9.3	2.2	25.6	5	-4.4	28	0	10	3.9	73	107	26	30	10	3	43	51	1.7	21	14.8	SW	30	10	5	15	6.0	48
FORT WAYNE	241	987.8	1018.1	13.1	3.2	8.1	3.6	25.6	6	-5.0	23	0	12	3.3	74	81	13	19	13	0	152	102	3.3	22	17.4	W	10	8	8	14	6.6	49

CLIMATOLOGICAL DATA
METRIC UNITS

State and Station	Elevation ground	Pressure		Temperature											Average relative humidity	Precipitation							Wind					No. of days (sunrise to sunset)			Sky cover tenths (sunrise to sunset)	Possible sunshine
												No of days							No of days		Snow, Ice pellets				Fastest mile (1.6 kilometers)							
		Station	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min 0 C or lower	Average dew point		Total	Departure from normal	Greatest in 24 hours	25 mm. or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10		
INDIANA	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
INDIANAPOLIS	241	989.5	1019.2	13.4	2.6	8.0	2.6	25.0	6	-7.2	28	0	14	5.0	82	92	13	30	11	3	114	76	2.5	21	17.4	SW	20	7	9	14	6.2	51
SOUTH BEND	236	988.5	1016.8	13.4	4.4	8.9	4.7	25.6	6	-4.4	23	0	11	4.4	75	120	51	41	17	2	272	152	3.0	23	18.3	27	10	5	8	17	6.9	
IOWA																																
BURLINGTON	211			12.4	2.3	7.3	3.0	23.3	9	-8.3	30+	0	14	3.3	78	67	26	22	10	2	165	152	1.8	22	13.0	23	20+	8	7	15	6.3	
DES MOINES	286	980.7	1016.0	11.3	1.4	6.4	3.2	21.1	17+	-10.0	30	0	14	1.7	76	56	20	27	10	2	178	127	0.7	23	16.1	NW	12	5	6	19	7.0	37
DUBUQUE	322	976.3		9.9	-0.4	4.8	2.6	19.4	4	-14.4	27	0	14			107	44	42	13		180	152										
SIOUX CITY	334	976.0	1016.9	8.3	-3.4	2.4	0.1	24.4	4	-18.3	25	0	18	-1.7	77	82	59	40	12	1	157	102	1.4	33	21.0	NW	12	10	2	18	6.5	50
WATERLOO	265	983.4	1016.0	9.4	-1.5	3.9	2.2	20.6	6	-16.1	27	0	17	0.0	77	93	55	31	12	2	124	102	0.3	17	16.5	32	10	5	6	19	7.4	
KANSAS																																
CONCORDIA	448	962.8	1016.6	10.7	-0.3	5.2	-0.1	22.8	7	-17.8	27+	0	16	0.0	73	68	48	26	10	2	201	178	1.0	29	19.2	NW	20	9	6	15	6.1	64
DODGE CITY	787	924.5	1016.5	11.6	-1.2	5.2	-0.8	25.0	7	-17.2	26	0	18	-2.2	63	46	31	20	7	3	81	25	1.6	29	25.0	NW	20	12	5	13	5.4	55
GOODLAND	1114	887.2	1016.7	10.8	-4.8	3.1	-0.6	23.9	16+	-18.3	25	0	18	-6.1	59	49	35	37	6	2	399	229	2.4	28	23.2	33	19	12	10	8	4.5	
TOPEKA	267	984.4	1016.8	13.4	1.5	7.5	1.4	23.9	7	-15.6	28	0	15	2.8	75	113	81	41	12	4	211	203	1.6	22	17.0	SW	29	8	4	18	6.5	40
WICHITA	403	968.5	1017.0	12.9	1.3	7.1	0.0	25.6	7	-17.2	26	0	16	2.2	74	73	44	28	7	2	140	102	1.3	24	20.1	NW	20	9	5	16	6.0	46
KENTUCKY																																
COVINGTON	265	987.5	1019.4	15.3	3.6	9.5	2.9	26.7	5	-5.0	28+	0	9	3.9	71	64	-15	21	10	2	94	51	2.5	22	11.6	18	30	9	4	17	6.3	
LEXINGTON	294	984.8	1020.9	14.6	3.7	9.2	2.2	25.0	5	-6.1	28	0	8	3.3	70	74	-11	26	9	0	T	0	2.2	20	13.0	25	10	7	6	17	6.6	
LOUISVILLE	145	1002.0	1019.8	16.1	4.5	10.3	3.1	26.7	5	-4.4	28	0	9	5.0	71	94	9	25	12	1	T	T	2.0	21	14.8	S	30	10	4	16	6.3	54
LOUISIANA																																
ALEXANDRIA	28	1015.9	1020.1	21.0	7.8	14.4	1.3	29.4	9	-4.4	27	0	7	8.9	74	51	-62	14	7	0	0	0	0.4	14	10.3	18	30	13	11	6	4.2	
BATON ROUGE	20	1017.6	1020.4	21.6	9.2	15.4	0.6	28.9	9+	-2.8	27	0	5	10.0	75	55	-43	27	8	2	0	0	1.3	10	10.3	31	30+	11	8	11	5.2	
LAKE CHARLES	3	1018.6	1019.7	22.2	9.3	15.7	0.1	28.9	9	-2.2	23	0	4	10.6	77	107	4	85	6	2	0	0	1.3	9	15.6	32	20	12	11	7	4.4	
NEW ORLEANS	1	1019.3	1020.0	21.3	11.1	16.2	0.6	28.3	4+	-1.1	25+	0	3	12.2	79	288	190	221	9	3	0	0	1.2	8	12.5	17	26	9	9	12	5.3	55
SHREVEPORT	77	1010.5	1019.7	20.6	6.4	13.5	0.1	28.9	9+	-5.6	27	0	7	6.7	68	113	22	56	9	1	T	T	0.5	19	17.0	29	30	16	8	6	3.7	71
MAINE																																
CARIBOU	190	992.6		4.7	-3.9	0.4	0.8	17.8	8	-15.0	27	0	25			86	-3	23	16		264	229						3	5	22	7.9	
PORTLAND	13	1015.2	1017.6	11.6	0.6	6.1	2.4	21.1	3	-5.0	23	0	17	1.7	74	153	29	40	11	1	91	102	1.2	27	12.5	SW	1	9	10	11	5.6	61
MARYLAND																																
BALTIMORE	45	1014.9	1020.8	17.2	4.8	11.1	3.2	26.7	8	-2.2	26+	0	7	5.0	68	52	-28	33	6	0	0	0	1.7	26	12.5	NW	14	10	6	14	6.0	56
MASSACHUSETTS																																
BLUE HILL OBS R	192			13.2	4.5	8.9	3.2	22.8	7	-2.8	29	0	9			155	26	68	9		58	51			24.6	S	8					60
BOSTON	5	1017.3	1018.4	15.2	6.8	11.0	3.7	24.4	7	0.6	29+	0	0	2.8	61	130	16	66	8	1	T	T	2.5	26	14.3	SW	21	12	8	10	5.3	57
WORCESTER	301	980.7		11.8	2.9	7.3	2.9	21.1	9	-3.9	23	0	13			134	16	64	10	0	38	25	2.4	27	10.3	28	22+	8	9	13	6.1	
MICHIGAN																																
ALPENA	210	989.8	1015.4	10.6	-0.9	4.8	3.2	21.7	6	-13.9	26	0	19	2.2	85	64	2	17	13	1	277	178	1.3	24	13.4	SW	10	3	11	16	7.3	43
DETROIT	189			13.6	5.8	9.7	4.7	23.9	6	-2.8	26	0	8	4.4	73					1			3.4	22	15.6	25	10					
DETROIT METRO	193	992.6	1017.0	13.0	3.4	8.2	3.7	23.9	6	-5.0	26+	0	11	3.9	76	61	2	18	14	2	165	102	3.4	23	19.2	SW	10	7	6	17	6.6	38
FLINT	235	987.8	1016.2	12.8	4.2	8.5	5.0	22.8	6	-5.6	26	0	11	3.3	73	81	22	23	14	1	267	203	2.9	23	17.4	27	10	6	8	16	7.0	
GRAND RAPIDS	239	986.8	1016.4	12.2	1.9	7.1	3.3	25.0	6	-15.0	26	0	13	2.8	77	97	26	22	16	2	168	152	2.4	22	29.5	S	10	5	8	17	7.4	33
HOUGHTON LAKE	350	972.9	1015.6	9.8	-0.1	4.9	3.6	20.6	6	-13.9	26	0	15	1.7	79	56	-8	18	15	3	150	127	1.7	24	13.9	27	10	6	5	19	7.4	
LANSING	256	984.4	1016.4	12.1	2.3	7.2	3.7	25.0	6	-7.8	26	0	13	1.7	71	87	30	25	16	0	254	203	2.7	21	18.8	SW	10	7	6	17	7.1	33
MARQUETTE	206			7.9	0.3	4.1	2.8	22.8	4	-8.3	26	0	15			80	4	21	16		429	203			12.1	S	29	3	6	21	7.9	43
MUSKEGON	191	993.2	1016.4	11.7	3.8	7.6	3.8	21.1	6	-8.9	26	0	10	3.9	78	107	30	23	16	1	157	127	2.1	22	16.5	27	10	6	6	18	7.4	
SAULT STE MARIE	220	987.8	1015.0	6.8	-2.7	2.1	1.7	17.2	4+	-18.3	26	0	20	-0.6	84	83	0	21	17	2	196	152	0.7	7	26.8	NW	10	4	4	22	8.1	32
MINNESOTA																																
DULUTH	435	963.4	1016.1	3.6	-4.4	-0.4	1.6	20.6	4	-20.6	27	0	21	-5.6	70	106	62	46	10	1	653	356	1.0	32	14.8	NE	20	6	9	15	6.9	51
INTERNATIONAL FALLS	359	972.2	1016.6	3.3	-7.1	-1.8	2.1	22.8	5	-23.9	26	0	24	-5.6	76	22	-11	14	7	0	140	76	0.5	30	9.8	S	19	7	2	21	7.2	
MINNEAPOLIS	254	985.1	1016.1	8.3	-2.2	3.1	2.8	23.3	4	-13.9	25	0	16	-2.2	70	122	91	53	10	1	411	178	0.7	35	15.6	N	9	6	8	16	6.7	51
ROCHESTER	395	966.8	1015.6	8.8	-2.7	3.1	2.7	22.2	4	-16.1	27	0	16	-0.6	78	117	91	57	14	2	198	102	0.8	25	17.9	31	10	6	7	17	7.1	
ST CLOUD	313	978.3	1015.9	6.4	-6.5	-0.1	1.1	22.2	5+	-23.9	25	0	24			82	54	42	8		434	279						6	5	19	7.2	
MISSISSIPPI																																
JACKSON	94	1008.5	1020.6	20.1	7.2	13.7	0.7	28.9	3	-2.8	27+	0	9	9.4	79	110	12	37	10	0	T	0	1.1	15	14.8	S	26	12	7	11	5.0	52

CLIMATOLOGICAL DATA
METRIC UNITS

State and Station		Pressure		Temperature												Precipitation							Wind					No of days (sunrise to sunset)				
												No of days							No. of days		Snow, Ice pellets				Fastest mile (1.6 kilometers)							
	Elevation (ground)	Station Ø	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min. 0 C or lower	Average dew point	Average relative humidity	Total	Departure from normal	Greatest in 24 hours	25 mm. or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m s		m s							%
MISSISSIPPI																																
MERIDIAN	88	1009.8	1021.2	19.6	4.7	12.2	-0.2	27.2	11+	-4.4	25	0	13	7.8	60	72	-17	22	6	1	T	0	0.3	16	8.9	15	26	13	4	13	5.3	
MISSOURI																																
COLUMBIA REGIONAL	270	985.1	1017.8	13.5	3.3	8.4	1.8	24.4	9	-7.2	28	0	12	2.2	68	91	45	41	9	2	206	203	2.2	21	18.8	SW	20	8	9	13	6.3	45
KANSAS CITY	309	979.0	1016.2	12.6	2.8	7.7	1.3	22.2	7	-8.9	28+	0	13	2.8	72	70	33	17	10	3	180	178	1.9	21	14.3	SE	29+	8	3	19	6.6	32
ST JOSEPH	247			12.8	2.7	7.8	2.1	23.3	1	-12.2	28	0	12			108	76		10													
ST LOUIS	163	998.0	1018.5	14.7	3.4	9.1	1.8	25.6	9	-8.3	28	0	11	4.4	76	67	4	19	10	3	193	203	1.9	21	16.1	SE	29	10	6	14	6.1	48
SPRINGFIELD	386	972.2	1018.0	14.8	2.5	8.7	1.2	26.1	8	-13.9	27	0	12	2.8	70	108	48	48	12	2	175	152	2.5	18	14.8	SE	29	10	9	11	5.4	51
MONTANA																																
BILLINGS	1087	891.0	1017.9	6.2	-5.2	0.5	-1.6	22.8	5	-22.2	29	0	19	-7.8	61	35	17	9	7	0	353	203	3.4	25	16.1	NW	10	6	8	16	7.0	45
GLASGOW	696	933.0	1017.2	5.0	-7.2	-1.1	0.6	23.9	4	-26.1	30	0	26	-7.2	67	10	0	3	9	0	140	127	0.3	7	15.6	31	2	7	4	19	7.0	
GREAT FALLS	1116	887.2	1018.0	5.6	-4.7	0.5	-0.9	24.4	5	-21.1	29	0	21	-8.9	57	26	5	7	7	0	246	178	5.3	23	19.2	SW	3	7	5	18	7.0	48
HAVRE	788	922.5	1016.8	5.5	-7.9	-1.2	-0.1	25.6	5	-29.4	30	0	21	-8.9	62	20	9	5	10	0	274	152	2.7	25	17.0	SW	3+	8	8	14	6.2	45
HELENA	1167	881.1	1020.0	5.0	-7.3	-1.2	-1.0	18.9	3	-25.6	30	0	29	-8.9	59	12	-3	3	8	0	124	102	2.5	27	17.0	W	7	6	6	18	7.0	52
KALISPELL	904	912.3	1019.7	3.8	-5.9	-1.1	-0.3	18.3	4+	-23.3	30	0	25	-6.7	66	30	-5	11	11	0	320	203	0.7	20	9.8	2	27+	4	6	20	7.8	
MILES CITY	801	922.1	1017.5	5.6	-6.7	-0.6	-0.8	21.1	4+	-24.4	30	0	22	-6.1	71	23	10		9	0	173		0.8	28								
MISSOULA	972	905.5	1020.3	4.2	-6.0	-0.9	-1.1	18.3	3	-20.6	30	0	26	-5.0	80	29	5	11	12	0	264	178	0.3	31	10.7	W	6	5	6	19	7.5	34
NEBRASKA																																
GRAND ISLAND	561	949.5	1017.1	8.4	-4.3	2.1	-1.3	24.4	4	-19.4	26	0	19	-3.9	70	83	67	46	10	1	406	229	2.0	32	22.8	34	20	9	7	14	6.1	
LINCOLN	359	972.9	1016.5	10.5	-2.2	4.2	0.3	23.3	4	-18.3	28	0	16	-1.1	73	64	42	38	9	2	160	127	1.7	32	21.5	NW	20	8	6	16	6.3	47
NORFOLK	471			8.0	-4.1	1.9	-0.4	25.0	4	-18.9	25+	0	19			93	77	39	9		401	279						10	5	15	6.1	
NORTH PLATTE	846	917.7	1018.3	7.5	-9.5	-1.0	-3.3	23.9	16	-22.2	26	0	27	-9.4	59	29	16	23	8	0	277	229	1.7	33	21.0	NW	11	9	9	12	5.6	66
OMAHA	298	980.0	1016.0	11.7	-1.0	5.3	0.9	22.2	18+	-15.0	28	0	15	1.1	75	72	44	30	10	3	160	127	1.3	33	19.7	NW	20	7	8	15	6.6	43
SCOTTSBLUFF	1206	878.8	1017.5	9.8	-5.8	2.0	-0.3	24.4	16	-22.2	30	0	23	-8.3	53	11	2	6	5	0	119	76	2.1	31	15.6	30	11	9	10	11	5.6	
VALENTINE	789			7.4	-8.3	-0.4	-1.9	24.4	5+	-28.3	26	0	25			26	14	17	4		292	203			30.4	NW	11	11	8	11	5.3	68
NEVADA																																
ELKO	1539	846.6	1021.3	7.4	-6.9	0.2	-1.3	20.6	5	-16.1	29	0	28			24	-2	8	7	0	185	76	0.6	23	15.6	27	10	8	5	17	6.7	
ELY	1906	810.0	1020.2	9.8	-9.8	0.1	-1.1	23.9	4	-17.8	29	0	30	-8.9	58	7	-9	4	5	0	119	76	1.2	20	12.5	SE	10	9	13	8	5.4	76
LAS VEGAS	659	941.4	1018.5	18.8	4.5	11.7	-0.2	27.8	4	-3.3	30	0	6	-8.3	26	T	-11	T	0	0	T	0	1.7	29	17.4	SW	10	19	7	4	2.9	87
RENO	1342	868.3	1020.9	12.2	-7.8	2.2	-2.3	22.8	5	-15.0	29+	0	29	-6.1	58	3	-14	2	3	0	43	51	0.7	28	17.4	W	10	8	9	13	5.6	72
WINNEMUCCA	1311	871.0	1020.8	10.6	-5.8	2.4	-0.6	21.7	4	-13.3	19	0	27	-7.2	52	12	-13	3	7	0	84	25	0.5	22	16.5	SW	10	8	7	15	6.7	47
NEW HAMPSHIRE																																
CONCORD	104	1005.1	1018.1	11.2	-2.5	4.4	1.1	21.7	8	-9.4	23	0	21	0.0	77	125	24	37	9	0	56	51	1.0	27	13.0	NW	5	8	11	11	5.8	52
MT WASHINGTON OBS	1909			-0.5	-7.5	-4.0	2.3	8.3	7	-16.7	29+	0	27			162	-33	30	18	1	292	76			51.9Y	W	5	4	9	17	7.5	30
NEW JERSEY																																
ATLANTIC CITY	20	1018.0	1020.3	14.7	3.0	8.8	1.1	23.3	5	-5.6	23	0	10	5.0	77	96	-11	40	8	1	0	0	1.5	26	9.4	21	21	9	7	14	6.0	44
ATLANTIC CITY U	3			14.2	6.6	10.4	1.3	23.9	5	-0.6	15	0	2			74	-20	35	8						11.6	N	24+					
NEWARK	2	1018.6	1019.5	15.3	6.6	10.9	3.1	25.0	4	-1.1	23	0	1			93	2	49	7	1	T	0	1.6	27	9.4	2	24+	8	10	12	6.5	
TRENTON U	17			15.9	6.8	11.4	3.4	25.6	9	0.6	23	0	0			88	6	56	6		T	0			12.5	S	21	8	11	11	6.0	59
NEW MEXICO																																
ALBUQUERQUE	1619	838.8	1017.7	14.8	-3.1	5.9	-1.1	25.0	6	-12.2	30+	0	23	-8.9	40	7	0	6	3	0	5	T	1.2	32	24.1	S	28	22	6	2	2.5	88
CLAYTON	1515			12.6	-2.7	4.9	-0.8	25.6	6	-12.2	22	0	20			26	18	25	4		58	51										
ROSWELL	1112	890.6	1016.0	19.4	0.0	9.7	1.4	28.3	8+	-10.6	26	0	15	-6.1	38	T	-7	T	0	0	T	T	0.5	26	29.1	NE	25	22	7	1	1.9	87
NEW YORK																																
ALBANY	84	1008.5	1019.2	12.8	2.2	7.5	3.3	23.9	8	-4.4	24	0	14	2.2	71	73	1	25	11	0	91	51	1.4	24	13.9	S	30+	5	6	19	7.3	28
BINGHAMTON	485	959.7	1019.3	11.1	2.9	7.0	3.6	22.2	7	-5.0	24	0	12	2.8	76	63	-15	22	14	1	107	51	2.5	24	13.9	SW	10	5	6	19	7.3	39
BUFFALO	215	991.5	1017.6	11.9	4.6	8.3	3.9	22.2	7	-2.2	29	0	10	4.4	79	70	-25	18	18	1	140	76	3.7	23	19.2	W	10	2	6	22	8.2	36
NEW YORK U	40	1016.9	1020.2	14.9	7.7	11.3	2.7	25.6	4	1.1	23+	0	0			110	14	55	6	0	T	0	1.0	27	8.0	NE	24					67
NEW YORK KENNEDY	4	1019.0	1019.8	15.0	8.1	11.6	3.5	25.0	4	2.2	26+	0	0	5.6	68	102	3	59	7	0	T	0	2.1	27	13.4	15	27	9	13	8	5.9	
NEW YORK LA GUARDIA	3	1018.6	1019.7	14.7	8.2	11.4	2.9	23.9	4	2.2	23+	0	0	4.4	63	100	4	50	7	0	T	0	2.1	27	14.8	NW	14	7	12	11	6.2	
ROCHESTER	167	997.3	1017.9	13.4	3.4	8.4	3.7	23.9	7	-4.4	24	0	8	3.9	75	34	-38	10	15	2	46	25	2.8	23	21.9	SW	10	4	6	20	7.8	36
SYRACUSE	125	1003.1	1018.0	12.6	3.6	8.1	3.1	22.8	7	-3.9	29	0	9	2.8	71	90	7	27	15	2	71	25	1.7	23	16.1	S	30	3	8	19	7.7	34
NORTH CAROLINA																																
ASHEVILLE	652	944.8	1022.0	16.0	1.9	9.0	1.1	23.9	10+	-8.7	26	0	18	4.4	80	124	50	45	11	0	127	127	0.9	35	13.4	35	21	11	8	11	5.2	60

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure		Temperature											Average relative humidity	Precipitation							Wind					No of days (sunrise to sunset)			Sky cover, tenths (sunrise to sunset)	Possible sunshine
											No of days								No of days		Snow, Ice pellets				Fastest mile (1.6 kilometers)							
		Station 0	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min 0 C or lower	Average dew point		Total	Departure from normal	Greatest in 24 hours	25 mm or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10		
NORTH CAROLINA	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m s		m s							%
CAPE HATTERAS R	2	1020.7	1021.0	19.9	10.1	15.0	1.7	26.7	12+	1.7	16+	0	0	11.7	80	94	-19	53	8	1	0	0	1.1	35	14.3	5	24	14	7	9	4.8	52
CHARLOTTE	224	993.9	1021.7	18.3	5.6	11.9	1.4	26.7	5	-3.9	15	0	6	5.6	67	72	2	27	8	0	13	T	0.1	21	13.0	SW	21	11	9	10	5.4	60
GREENSBORO	273	989.5	1021.5	18.0	4.2	11.1	2.1	27.2	5	-3.9	15	0	10	5.0	70	46	-21	33	6	0	0	0	0.8	22	12.1	SW	21	9	10	11	5.6	66
RALEIGH	132	1005.1	1021.2	18.9	4.9	11.9	1.9	27.2	5	-4.4	15	0	5	5.6	69	117	45	95	8	1	66	51	0.6	23	9.8	22	21	10	10	10	5.3	62
WILMINGTON	9	1020.0	1021.5	22.0	8.7	15.4	2.3	28.9	10	0.6	16	0	0	10.6	77	76	0	46	5	1	0	0	0.2	34	13.4	N	23+	14	3	13	5.2	65
NORTH DAKOTA																																
BISMARCK	502	956.0	1017.4	6.4	-7.1	-0.3	1.4	23.9	4	-24.4	30	0	24	-5.6	70	5	-9	2	5	0	56	51	0.7	34	14.8	NW	12+	3	12	15	6.7	48
FARGO	273	983.1	1016.9	4.0	-5.1	-0.5	1.4	21.1	5+	-18.3	30	0	22	-5.0	73	16	-2	9	4	0	97	76	0.4	2	17.4	N	12	6	6	18	7.0	50
WILLISTON	579	947.2	1017.7	4.3	-8.3	-2.0	0.2	21.7	4	-24.4	30	0	29	-6.1	74	29	15	13	9	0	358	254	0.8	26	13.4	SW	7	9	5	16	6.5	39
OHIO																																
AKRON	368	974.3	1019.2	13.6	3.7	8.6	3.8	23.9	9	-3.9	24+	0	10	3.9	73	42	-21	17	14	0	99	25	3.1	21	14.3	18	30	9	3	18	6.8	
CINCINNATI ABBE OB	232			14.9	5.0	9.9	2.9	26.1	5	-3.9	28	0	8			63	-15	21	10						9.8	S	20+					57
CLEVELAND	237	989.2	1018.8	12.9	3.7	8.3	3.0	23.9	6	-4.4	24	0	10	4.4	77	53	-17	10	15	0	142	51	3.9	22	16.1	SW	10	7	4	19	7.1	39
COLUMBUS	247	989.5	1019.9	13.6	3.6	8.6	3.2	25.0	6	-6.1	23	0	12	3.3	71	39	-29	12	12	0	28	T	2.2	21	15.2	SW	10	8	6	16	6.6	41
DAYTON	303	982.7	1019.3	14.2	4.3	9.2	3.8	26.1	9	-4.4	23	0	11	4.4	74	55	-10	23	11	0	76	51	2.6	22	15.2	S	30+	8	9	13	6.1	50
MANSFIELD	395			11.8	3.5	7.7	2.1	22.2	6	-5.0	23+	0	12			40	-24	12	13	0	69	25	3.7	21	15.6	24	10	7	3	20	7.1	
TOLEDO	204	992.2	1017.9	12.8	2.0	7.4	3.2	24.4	6	-8.3	23	0	15	3.9	79	55	-4	11	13	1	145	76	2.9	23	19.2	SW	10	7	6	17	6.8	38
YOUNGSTOWN	359	976.0	1019.1	12.6	3.2	7.9	3.3	23.3	6	-5.6	28+	0	12	2.8	73	49	-27	14	13	1	94	T	2.9	22	12.1	27	10	4	8	18	7.5	
OKLAHOMA																																
OKLAHOMA CITY	392	970.9	1017.9	16.7	4.0	10.4	0.8	25.6	29+	-10.6	26	0	11	2.8	64	45	9	23	7	2	18	25	0.8	21	16.1	W	29	12	8	10	5.2	66
TULSA	198	993.2	1017.8	16.2	4.7	10.4	0.8	27.2	1	-8.3	27	0	10	3.3	67	90	42	28	8	1	20	T	2.0	20	15.6	S	29	9	11	10	5.8	43
OREGON																																
ASTORIA	2	1016.9	1017.7	10.8	4.9	7.9	-0.2	16.7	4	-2.8	28	0	5	4.4	80	312	64	84	26	3	28	T	2.5	18	16.5	21	14	0	8	22	8.7	
BURNS J	1265			7.4	-5.6	0.9	-1.2	20.0	4	-13.3	29	0	28			21	-15	6	12		132	76			31.7Y	W	10	9	2	19	6.8	
EUGENE	109	1005.8	1019.7	12.3	3.4	7.9	0.3	24.4	3	-1.7	19	0	6	5.0	83	215	49	72	16	0	T	0	2.5	19	13.0	36	10	4	2	24	8.2	
MEDFORD	396	973.2	1021.9	9.6	0.7	5.2	-1.2	17.2	14	-7.2	18	0	15	1.1	79	47	-32	16	13	0	10	T	0.2	30	12.5	14	14+	0	5	25	8.8	
PENDLETON	452	964.4	1019.0	10.6	0.8	5.7	0.5	25.0	4	-8.3	29	0	13	-1.7	64	21	-17	6	12	0	132	51	1.5	24	13.4	28	26	1	9	20	7.9	
PORTLAND	6	1017.3	1018.7	11.1	4.4	7.8	0.4	22.8	3	-1.7	29+	0	4	3.9	79	104	-38	24	20	0	T	T	2.6	17	13.9	SW	30	1	4	25	8.7	20
SALEM	60	1011.5	1019.0	10.8	2.4	6.6	-0.7	21.7	3	-3.9	19+	0	9	3.9	83	154	-1	32	19	0	T	0	2.6	19	13.0	18	30	2	6	22	8.2	
SEXTON SUMMIT R	1169	885.2	1019.9	5.8	0.0	2.9	-2.2	17.2	3	-6.7	18	0	18			130	-13	36	17		450	203	2.9	19	17.0	20	6	5	4	21	7.8	
PACIFIC AREA																																
GUAM TAGUAC R	110			29.1	22.3	25.7	-0.5	30.6	5+	17.2	20	0	0			314	98	80	28		0	0			15.2	SE	19	0	12	18	8.2	46
JOHNSTON	2	1012.9	1013.4	27.7	23.9	25.8	-0.4	28.9	23+	22.2	30+	0	0	21.1	75	29	-30	9	14	1	0	0	6.5	8	15.6	E	20	7	14	9	5.7	69
KOROR R	29	1004.1		31.5	24.3	27.9	0.2	32.8	13+	22.8	28+	14	0			284	13	107	21	5	0	0	1.3	1	10.3	NW	20	0	4	26	8.9	39
KWAJALEIN	2	1008.5		29.6	24.6	27.1	-0.5	30.6	21+	21.1	24	0	0			396	105	184	25	2	0	0	5.1	8	11.6	9	2	0	8	22	8.9	
MAJURO	3	1008.8		28.8	23.8	26.3	-1.0	30.0	5	22.2	24+	0	0			388	-3	93	25		0	0	3.7	9	12.1	E	18	0	4	26	9.2	31
PAGO PAGO	4	1010.8	1010.9	29.9	23.7	26.8	0.2	31.1	26+	21.7	12	0	0	22.8	78	195	-67	44	21	3	0	0	2.7	6	14.3	NW	15	0	15	15	7.6	42
PONAPE R	37			30.6	22.9	26.8	-0.1	32.2	29+	21.1	25	8	0			437	1	97	27	0	0	0			7.6	NE	19	0	11	19	8.2	34
TRUK MOEN ISLAND	2	1007.8		29.8	24.1	26.9	-0.4	31.7	19	22.2	23+	0	0			443	138	68	25	3	0	0	2.0	12	12.5	SW	7	0	3	27	9.5	27
WAKE	3	1013.2	1013.5	29.9	23.7	26.8	-0.1	31.1	9+	21.1	15	0	0	23.3	83	72	-5	25	19	0	0	0	5.8	9	13.4	NE	28	9	15	6	5.4	45
YAP R	13	1004.7		30.6	23.5	27.1	-0.4	32.2	23	21.1	12+	1	0			172	-82	42	21	1	0	0	1.6	4	13.9	SW	20	0	12	18	7.9	57
PENNSYLVANIA																																
ALLENTOWN	118	1005.8	1020.0	14.8	3.8	9.3	3.6	23.9	9+	-2.8	26+	0	7	3.3	68	86	-6	44	8	1	T	0	1.9	26	10.7	18	21	6	10	14	6.5	
ERIE	223	991.2	1018.5	12.2	3.9	8.1	3.6	21.1	9	-4.4	24	0	9	4.4	79	81	-13	20	15	2	53	T	4.2	21	14.3	21	30+	2	9	19	8.0	
HARRISBURG	103	1008.1	1020.8	15.5	4.5	10.0	3.4	26.1	5	-1.7	24+	0	6	4.4	71	74	-7	46	7	0	T	0	1.5	27	11.2	W	14	8	11	11	5.8	57
PHILADELPHIA	2	1019.3	1020.2	16.8	6.2	11.5	3.6	26.7	5	-0.6	29	0	3	5.6	69	80	-6	57	6	1	0	0	1.3	26	12.5	SW	21	8	11	11	6.0	60
PITTSBURGH	347	975.5	1020.1	13.1	2.8	7.9	2.8	23.3	5	-6.1	24	0	11	1.1	63	45	-18	14	10	0	48	25	2.1	24	15.6	27	10	9	3	18	6.7	39
SCRANTON	283	984.8	1019.5	13.6	4.0	8.8	3.9	24.4	7	-3.3	25+	0	7	3.3	70	76	0	36	10	1	33	25	1.7	23	14.8	SE	27	5	8	17	7.2	52
WILLIAMSPORT	162	1000.3	1019.7	13.8	3.1	8.4	3.2	22.8	5	-3.9	24	0	9	2.8	72	72	-23	37	11	1	5	T	0.9	27	15.6	17	30	6	9	15	7.0	
RHODE ISLAND																																
BLOCK ISLAND	34			13.6	7.0	10.3	2.5	22.2	9	-0.6	29+	0	3			119	9	52	8		0	0										
PROVIDENCE	16	1016.6	1018.9	14.3	3.4	8.9	2.6	24.4	3	-3.3	23	0	11	3.3	71	160	45	80	9	1	30	25	1.7	27	11.2	23	1	9	10	11	5.7	57
SOUTH CAROLINA																																
CHARLESTON	12	1020.0	1021.9	21.9	8.4	15.2	1.7	27.8	6	-1.7	26+	0	3	9.4	73	36	-18	26	6	0	0	0	0.3	31	11.2	20	27	14	2	14	5.2	77

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure		Temperature										Average dew point	Average relative humidity	Precipitation							Wind					No. of days (sunrise to sunset)			Sky cover, tenths (sunrise to sunset)	Possible sunshine
												No. of days							No. of days		Snow, Ice pellets				Fastest mile (1.6 kilometers)							
		Station Ø	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min. 0 C or lower			Total	Departure from normal	Greatest in 24 hours	25 mm. or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10		
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
SOUTH CAROLINA																																
CHARLESTON J	3			20.6	11.6	16.1	1.3	26.1	5	1.7	15	0	0			10	-41	6	4		0	0										
COLUMBIA	65	1013.5	1021.9	20.8	5.9	13.4	1.3	27.8	9+	-3.3	15	0	6	7.2	72	57	-3	33	6	2	0	0	0.3	27	9.4	31	14	11	5	14	5.4	61
GRNVLLE-SPRTNBRG	292	986.8	1021.8	17.9	5.3	11.7	1.1	26.7	5	-2.2	26+	0	7	5.6	72	101	22	37	12	0	T	0	0.4	31	11.6	SW	21	12	7	11	4.8	72
SOUTH DAKOTA																																
ABERDEEN	395	968.8	1017.0	7.4	-5.2	1.1	2.0	25.6	4	-21.7	30	0	22	-3.9	73	7	-8	5	6	0	38	T	0.9	34	18.3	36	20	5	11	14	6.6	
HURON	390	968.8	1016.6	7.0	-6.3	0.3	0.1	24.4	5	-23.9	25	0	26	-3.9	75	4	-13	3	5	0	74	51	0.7	33	21.9	NW	11	7	10	13	6.4	57
RAPID CITY	964	904.5	1018.0	7.4	-5.4	1.0	-0.9	23.9	5+	-20.6	30	0	22	-8.3	57	14	2	8	6	0	213	127	2.5	34	23.2	NW	11	9	7	14	5.8	71
SIOUX FALLS	432	964.1	1017.0	7.2	-5.5	0.8	0.2	24.4	4	-23.3	25	0	24	-3.3	77	57	36	33	10	1	335	229	1.7	33	23.2	36	20	10	5	15	6.5	
TENNESSEE																																
BRISTOL	459	966.8	1021.6	16.7	3.1	9.9	2.3	25.6	9+	-3.9	28+	0	10	4.4	72	80	9	41	6	0	T	0	0.5	25	10.7	26	21	8	10	12	5.9	
CHATTANOOGA	203	996.6	1021.8	15.7	3.2	9.4	0.1	24.4	8+	-4.4	15	0	10	5.0	81	127	27	64	11	0	T	T	0.4	27	10.3	19	30	6	7	17	6.6	46
KNOXVILLE	299	986.5	1022.1	16.5	3.7	10.1	0.6	24.4	5	-5.0	15	0	8	5.6	76	74	-16	40	7	0	T	0	0.6	28	10.3	27	30+	7	6	17	6.6	50
MEMPHIS	79	1010.5	1020.8	17.4	6.7	12.1	1.6	27.2	8	-2.8	27	0	6	5.0	65	197	98	55	10	1	0	0	1.3	22	13.4	22	30	12	4	14	5.6	55
NASHVILLE	180	999.0	1020.8	17.1	5.3	11.2	2.1	27.8	5	-3.9	28	0	8	5.6	70	76	-12	22	9	2	T	0	1.5	21	11.2	18	30+	10	7	13	5.7	56
OAK RIDGE R	276			15.9	2.3	9.1	0.7	25.0	8	-5.0	15	0	14			87	-16	44	8		T	T			14.8Y		30+	8	2	20	6.7	
TEXAS																																
ABILENE	544	954.3	1017.5	19.3	5.4	12.4	0.1	27.8	8	-6.1	26	0	10	2.8	56	68	37	62	2	1	0	0	2.0	19	16.1	NW	30+	20	3	7	2.9	78
AMARILLO	1098	891.0	1015.7	15.6	-0.3	7.7	-0.3	29.4	8	-11.1	26	0	16	-4.4	49	23	10	18	4	2	10	T	1.9	28	19.7	26	29	16	6	8	3.8	84
AUSTIN	182	996.3	1018.5	22.7	8.8	15.8	0.7	30.0	9+	-1.7	27+	0	5	6.7	60	13	-39	4	5	0	0	0	0.2	15	14.8	N	12	19	7	4	2.9	72
BROWNSVILLE	6	1016.9	1017.6	26.1	14.1	20.1	0.1	31.7	8	3.9	14	0	0	13.9	71	42	8	39	5	0	0	0	1.0	12	16.1	SE	29	12	11	7	4.6	60
CORPUS CHRISTI	12	1016.6	1018.2	25.6	12.8	19.2	0.9	31.1	8	1.7	23	0	0	12.2	69	23	-19	18	7	0	0	0	1.9	10	16.5	S	29	12	12	6	4.1	74
DALLAS - FORT WORTH	168	997.3	1018.6	20.9	7.1	14.1	0.8	30.6	7	-5.6	23	0	6	3.9	55	11	-41	6	3	1	0	0	1.3	21	15.6	18	29+	19	7	4	3.3	
DEL RIO	313	981.0	1017.1	23.7	8.9	16.3	1.0	32.2	29+	-1.7	27	2	2	5.0	53	3	-14	3	1	0	0	0	1.9	10	13.0	31	26	20	7	3	2.9	
EL PASO	1194	883.5	1016.1	20.6	1.0	10.8	-0.1	27.8	6	-5.0	24+	0	13	-6.7	31	T	-8	T	0	0	0	0	0.8	26	17.9	24	29	23	5	2	1.7	92
GALVESTON	2			21.0	14.6	17.8	0.3	26.7	9	4.4	26	0	0			116	36	39	8		0	0			15.6	NW	30					63
HOUSTON INTERCON	29	1015.6	1019.4	22.9	7.9	15.4	-0.8	30.0	8	-4.4	23	0	8	10.0	76	53	-50	19	9	1	0	0	1.2	9	11.2	17	29	16	8	6	3.6	70
LUBBOCK	992	904.5	1016.5	18.5	1.8	10.2	0.8	29.4	8+	-7.8	26	0	14	-1.7	52	30	18	22	2	2	0	0	1.2	26	21.5	25	29	20	6	4	2.7	79
MIDLAND	869	917.4	1016.1	20.3	3.6	11.9	0.1	28.9	6	-3.9	22+	0	10	0.0	50	55	42	55	2	1	0	0	1.2	21	17.4	24	29	22	5	3	2.3	
PORT ARTHUR	5	1019.0		21.9	9.3	15.7	0.0	28.9	9	-2.2	23	0	5	11.7	81	83	-25	42	7	1	0	0	1.4	9	13.9	SE	19	16	8	6	4.1	71
SAN ANGELO	580	950.6	1017.5	19.8	5.4	12.6	-0.4	28.3	8	-5.0	26+	0	10	3.3	57	56	34	55	2	1	0	0	2.1	21	15.6	18	19	21	4	5	2.6	
SAN ANTONIO	240	990.2	1018.3	23.6	7.8	15.7	0.3	29.4	9+	-3.9	27+	0	9	6.1	58	1	-44	1	1	0	0	0	0.5	8	15.6	NW	26	19	5	6	3.3	79
VICTORIA	32	1014.6	1018.7	24.4	10.3	17.3	0.3	30.6	9+	-1.7	27	0	2	11.1	73	26	-33	12	8	0	0	0	0.9	8	20.1Y	S	29	16	9	5	3.8	
WACO	153	1000.3	1018.5	22.6	8.3	15.4	1.3	31.7	9	-5.0	23	0	8	6.7	61	10	-47	6	4	2	0	0	1.3	17	13.4	17	29+	20	5	5	3.0	
WICHITA FALLS	303	981.0	1017.9	19.6	4.8	12.2	0.6	30.0	8	-6.7	26	0	10	4.4	65	33	-1	20	5	1	13	25	1.6	21	15.6	18	29	18	4	8	3.7	
UTAH																																
MILFORD	1533	848.0	1021.1	10.2	-8.7	0.8	-2.2	22.8	5	-17.8	29	0	30			19	2	11	7		236	152			19.2	SW	10	13	7	10	4.6	74
SALT LAKE CITY	1286	874.4	1021.2	8.1	-2.3	2.9	-1.0	17.2	6	-8.9	22	0	22	-3.3	69	43	10	14	11	0	457	152	0.9	19	16.5	NW	10	9	5	16	6.1	55
WENDOVER	1291	873.4	1021.4	6.4	-2.9	1.8	-1.9	15.6	6	-8.9	29	0	23	-5.0	63	10	0	7	6		86	51	0.9	34								
VERMONT																																
BURLINGTON	101	1005.1	1017.7	9.7	1.4	5.6	2.8	21.7	8	-7.8	26	0	17	1.1	75	80	7	22	12	2	135	76	1.2	20	16.5	W	10	5	[illegible]	17	7.3	39
VIRGINIA																																
LYNCHBURG	279	986.8		16.7	3.8	10.3	1.[illegible]	26.7	5	-5.0	26	0	9			75	8	56	7		0	0			11.2	SW	21	11	12	7	4.9	61
NORFOLK	7	1020.0	1021.1	18.7	7.6	13.2	2.3	26.7	10	1.1	1	0	0	6.7	68	41	-33	21	6	0	0	0	0.6	28	13.9	2	24	12	6	12	5.1	59
RICHMOND	50	1014.6	1021.0	19.6	4.3	12.0	2.6	28.3	5	-2.8	26+	0	8	6.1	71	52	-29	43	6	0	0	0	0.3	19	10.7	SW	21	10	7	13	5.7	54
ROANOKE	350	978.7	1021.2	17.2	4.0	10.6	2.4	27.2	5	-3.9	26	0	8	2.2	60	45	-18	31	5	0	T	0	0.8	29	12.5	32	14	9	11	10	5.6	
WALLOPS ISLAND	3			16.7	7.9	12.3	2.7	25.6	5	1.1	1	0	0			72	-5	48	7		T	0			17.4Y	NNE	24					
WASHINGTON																																
OLYMPIA	59	1009.1	1016.6	9.5	0.8	5.2	-1.1	21.1	4	-10.0	29	0	13	2.2	84	242	40	39	24	1	114	102	2.9	20	14.3	18	6	0	7	23	8.8	
QUILLAYUTE	55	1007.5	1015.0	9.4	3.7	6.6	-0.2	13.3	4	-4.4	18	0	6	4.4	87	617	265	95	25	3	97	76	2.4	17	14.8	SE	14	2	4	24	8.8	11
SEATTLE U	6			10.6	4.8	7.7	0.1	18.9	4	-4.4	29	0	5			163	27	31	19		13	25			18.3Y		15					
SEATTLE-TACOMA	122	1000.0	1016.8	10.3	4.1	7.2	0.2	18.9	4	-5.6	29	0	5	2.8	76	129	-21	32	19	2	41	25	2.6	17	15.2	SW	15	1	3	26	8.7	35
SPOKANE	718	932.3	1018.0	4.8	-2.9	1.0	-0.9	19.4	4	-15.6	29	0	24	-2.8	78	49	-7	17	11	0	290	152	2.2	18	16.1	SW	15	3	6	21	7.9	33
STAMPEDE PASS R	1206	877.4		0.9	-3.8	-1.4	-0.9	11.7	4	-12.8	29	0	25			536	219	104	24		2350	1295						1	2	27	9.1	
WALLA WALLA U	289			11.2	2.7	6.9	1.0	26.7	4	-5.6	29	0	10			40	-8	17	12		97	25			13.0	W	15	2	6	22	8.2	24
YAKIMA	321	979.3	1018.7	9.9	-3.6	3.2	-0.3	22.2	3	-8.3	19+	0	25	-2.8	67	11	-16	6	7	0	61	51	1.2	28	12.5	22	5	3	7	20	7.9	

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure		Temperature												Precipitation							Wind					No of days (sunrise to sunset)				
												No. of days							No of days		Snow, Ice pellets				Fastest mile (1 6 kilometers)							
		Station Q	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32 2 °C or above	Min 0 C or lower	Average dew point	Average relative humidity	Total	Departure from normal	Greatest in 24 hours	25 mm or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m s		m s							%
WEST INDIES																																
SAN JUAN P.R.	4	1011.9	1014.2	29.4	23.7	26.6	0.6	31.7	4	22.2	30+	0	0	21.1	73	277	137	51	18	7	0	0	2.4	9	12.5	S	11	7	19	4	5.3	50
WEST VIRGINIA																																
BECKLEY	763	931.6	1021.4	13.9	2.8	8.4	2.9	22.8	9+	-6.7	15	0	11	1.7	68	64	-10	25	9	0	79	76	1.8	20	15.6	14	27	8	8	14	6.4	
CHARLESTON	286	986.5	1020.9	17.0	3.2	10.1	2.7	27.8	6	-6.1	28	0	13	3.9	69	68	-4	33	12	1	T	T	1.2	23	10.3	15	26	9	7	14	6.0	
ELKINS	594	949.2		14.9	-0.6	7.2	2.3	26.1	9	-9.4	24	0	16			52	-17	30	10		99	102						7	9	14	6.5	
HUNTINGTON	252	990.2	1020.5	16.2	3.9	10.1	2.6	27.8	6	-5.6	28	0	8	3.3	67	67	-6	21	12	1	8	T	1.1	23	8.0	21	30+	7	6	17	6.7	
PARKERSBURG J	187			15.2	3.6	9.4	2.2	26.7	6	-5.0	23	0	9			66	2	31	13		T	0			13.4	SW	10					53
WISCONSIN																																
GREEN BAY	208	989.2	1015.3	9.2	-1.3	3.9	2.8	20.0	6	-11.1	26+	0	17	0.0	77	87	39	31	13	0	112	51	1.4	25	17.9	W	10	6	6	18	7.1	33
LA CROSSE	198	991.5	1016.7	9.4	-0.5	4.4	2.6	21.1	3	-13.3	26	0	16	1.7	84	78	41		12	1	43		0.4	21								
MADISON	262	983.7	1015.8	11.2	-0.3	5.5	4.0	21.1	4+	-13.3	26+	0	15	2.2	81	71	23	21	12	2	140	102	1.4	22	18.8	SW	29	9	2	19	7.1	37
MILWAUKEE	205	990.5	1016.0	11.6	2.2	6.9	4.4	20.6	18+	-7.8	30	0	14	3.3	79	72	21	25	14	3	213	102	2.6	24	23.2	SW	10	9	4	17	6.8	
WYOMING																																
CASPER	1627	836.1	1017.6	6.9	-6.4	0.3	-0.8	20.6	4	-25.6	30	0	22	-9.4	55	13	-4	7	8	0	173	127	4.4	24	17.9	23	30	11	7	12	5.4	
CHEYENNE	1867	809.3	1016.4	8.1	-5.7	1.2	-0.7	20.6	5	-21.1	29	0	22	-11.1	46	5	-10	3	3	0	119	76	4.5	30	24.1	NW	11	11	7	12	5.2	65
LANDER	1696	828.3	1019.2	5.3	-8.9	-1.8	-1.5	17.2	15+	-25.0	30	0	26	-10.6	57	19	-4	11	6	0	378	178	0.8	26	17.4	N	24	10	8	12	5.6	63
SHERIDAN	1208	878.1	1018.4	7.1	-7.9	-0.4	-1.2	25.6	5	-26.1	30	0	27	-8.3	63	22	-1	11	9	0	358	152	2.0	30	14.8	NW	10	4	8	18	7.1	43

HEATING DEGREE DAYS

(Base 65°F.)

NOVEMBER 1975

State and Station	Current season		Normals
	This month	Period July through this month	July through this month
ALABAMA			
BIRMINGHAM	349	503	534
HUNTSVILLE	376	567	611
MOBILE	211	231	250
MONTGOMERY	312	362	399
ALASKA			
ANCHORAGE	1517	3361	3262
ANNETTE	825	2284	2086
BARROW	2293	7152	6211
BARTER ISLAND	2301	6849	6037
BETHEL	1741	4056	3826
BETTLES	2260	4975	4774
BIG DELTA	2184	4589	4122
COLD BAY	1038	3204	3126
FAIRBANKS	2195	4338	4170
GULKANA	1945	4225	4213
HOMER	1274	3395	3285
JUNEAU	1088	2820	2788
KING SALMON	1568	3756	3464
KODIAK	1138	3247	2760
KOTZEBUE	2006	5088	4537
MC GRATH	2203	4658	4243
NOME	1724	4654	4253
ST. PAUL ISLAND	1064	3812	3556
SUMMIT	1897	4825	4594
TALKEETNA	1690	3787	3554
UNALAKLEET	1881	4295	4112
VALDEZ	1241	3252	3341
YAKUTAT	1120	3107	2970
ARIZONA			
FLAGSTAFF	821	1683	1792
PHOENIX	159	174	199
TUCSON	191	229	250
WINSLOW	734	1072	925
YUMA	112	119	108
ARKANSAS			
FORT SMITH	430	633	573
LITTLE ROCK	414	592	589
CALIFORNIA			
BAKERSFIELD	304	377	331
BISHOP	640	971	884
BLUE CANYON	714	1421	1149
EUREKA U	486	1634	1498
FRESNO	455	609	435
LONG BEACH	145	173	210
LOS ANGELES	145	176	292
LOS ANGELES U	132	163	153
MT SHASTA R	813	1507	1367
OAKLAND	371	801	639
RED BLUFF	424	592	421
SACRAMENTO	306	378	466
SANDBERG R	557	915	763
SAN DIEGO	141	160	205
SAN FRANCISCO	377	869	671
SAN FRANCISCO U	276	972	841
SANTA MARIA	334	811	737
STOCKTON	420	561	451
COLORADO			
ALAMOSA	1157	2299	2146
COLORADO SPRINGS	852	1453	1458
DENVER	840	1402	1296
GRAND JUNCTION	858	1251	1140
PUEBLO	795	1234	1116
CONNECTICUT			
BRIDGEPORT	432	681	873
HARTFORD	503	927	1213
DELAWARE			
WILMINGTON	418	651	865
DIST.OF COLUMBIA			
WASHINGTON DULLES	526	856	943
WASHINGTON NATIONAL	328	450	714
FLORIDA			
APPALACHICOLA U	179	189	180
DAYTONA BEACH	102	102	97
FORT MYERS	48	48	44
JACKSONVILLE	176	187	180
KEY WEST	2	2	0
LAKELAND U	85	85	72
MIAMI	33	33	13
ORLANDO	85	85	75
PENSACOLA	199	220	221
TALLAHASSEE	237	264	235
TAMPA	88	88	71
WEST PALM BEACH	40	40	22
GEORGIA			
ATHENS	323	422	540
ATLANTA	342	483	553
AUGUSTA	285	349	448
COLUMBUS	286	367	405
MACON	280	347	386
ROME	378	527	650
SAVANNAH	228	253	313
IDAHO			
BOISE	759	1259	1301
LEWISTON	736	1219	1285
POCATELLO	943	1683	1606
ILLINOIS			
CAIRO U	404	618	669
CHICAGO O HARE	531	982	1249
CHICAGO MIDWAY	532	968	1119
MOLINE	594	1062	1208
PEORIA	596	1087	1158
ROCKFORD	678	1291	1335
SPRINGFIELD	528	916	1031
INDIANA			
EVANSVILLE	484	782	873
FORT WAYNE	546	1077	1209
INDIANAPOLIS	551	984	1069
SOUTH BEND	503	992	1258
IOWA			
BURLINGTON	587	1036	1154
DES MOINES	637	1052	1273
DUBUQUE	724	1386	1467
SIOUX CITY	850	1383	1362
WATERLOO	770	1465	1493
KANSAS			
CONCORDIA	701	1044	1056
DODGE CITY	701	983	954
GOODLAND	823	1246	1290
TOPEKA	581	950	977
WICHITA	596	895	849
KENTUCKY			
COVINGTON	474	865	951
LEXINGTON	488	865	898
LOUISVILLE	431	709	876
LOUISIANA			
ALEXANDRIA	274	337	381
BATON ROUGE	246	276	262
LAKE CHARLES	212	231	213
NEW ORLEANS	222	244	219
SHREVEPORT	286	329	348
MAINE			
CARIBOU	960	2082	2198
PORTLAND	653	1435	1567
MARYLAND			
BALTIMORE	397	603	844
MASSACHUSETTS			
BLUE HILL OBS R	502	1019	1178
BOSTON	395	712	979
WORCHESTER	586	1271	1346
MICHIGAN			
ALPENA	724	1661	1902
DETROIT	459	865	1150
DETROIT METRO	537	1094	1240
FLINT	525	1115	1431
GRAND RAPIDS	602	1247	1347
HOUGHTON LAKE	720	1637	1858
LANSING	593	1285	1389
MARQUETTE U	762	1628	1800
MUSKEGON	565	1199	1384
SAULT STE MARIE	871	1915	2061
MINNESOTA			
DULUTH	1003	2157	2198
INTERNATIONAL FALLS	1085	2292	2412
MINNEAPOLIS	818	1458	1655
ROCHESTER	821	1500	1698
ST CLOUD	985	1867	1872
MISSISSIPPI			
JACKSON	304	389	392
MERIDIAN	349	479	442
MISSOURI			
COLUMBIA REGIONAL	528	933	922
KANSAS CITY	567	935	919
ST JOSEPH	565	934	1000
ST LOUIS	498	838	859
SPRINGFIELD	515	912	853
MONTANA			
BILLINGS	955	1708	1612
GLASCOW	1042	1988	1965
GREAT FALLS	961	1860	1756
HAVRE	1046	1956	1942
HELENA	1045	2166	2004
KALISPELL	1040	2148	2285
MILES CITY	1013	1790	1728
MISSOULA	1032	2077	2040
NEBRASKA			
GRAND ISLAND	870	1344	1279
LINCOLN	759	1196	1192
NORFORK	877	1412	1398
NORTH PLATTE	1035	1706	1459
OMAHA	695	1087	1128
SCOTTSBLUFF	873	1511	1491
VALENTINE	1008	1684	1554
NEVADA			
ELKO	970	1805	1802
ELY	982	1916	1869
LAS VEGAS	354	427	431
RENO	868	1487	1438
WINNEMUCCA	855	1452	1596
NEW HAMPSHIRE			
CONCORD	747	1627	1540
MT WASHINGTON OBS	1197	3914	4145
NEW JERSEY			
ATLANTIC CITY	505	866	867
ATLANTIC CITY U	422	659	720
NEWARK	400	655	841
TRENTON U	380	645	852
NEW MEXICO			
ALBUQUERQUE	664	967	840
CLAYTON	718	1146	1078
ROSWELL	462	614	755
NEW YORK			
ALBANY	580	1129	1350
BINGHAMTON	604	1308	1493
BUFFALO	535	1118	1358
NEW YORK U	387	645	766
NEW YORK KENNEDY	367	601	844
NEW YORK LA GUARDIA	372	620	785
ROCHESTER	525	1102	1294
SYRACUSE	545	1167	1261
NORTH CAROLINA			
ASHEVILLE	498	807	880
CAPE HATTERAS R	206	238	353
CHARLOTTE	347	463	582
GREENSBORO	391	543	734
RALEIGH	351	485	648
WILMINGTON	199	239	368
NORTH DAKOTA			
BISMARCK	1002	1895	1952
FARGO	1012	1824	1930
WILLISTON	1092	2084	2036
OHIO			
AKRON	519	1049	1224
CINCINNATI ABBE OB	451	780	894
CLEVELAND	532	1073	1177
COLUMBUS	520	951	1125
DAYTON U	492	916	1073
MANSFIELD	570	1107	1111
TOLEDO	585	1231	1263
YOUNGSTOWN	559	1153	1274
OKLAHOMA			
OKLAHOMA CITY	430	620	634
TULSA	429	632	621
OREGON			
ASTORIA	558	1458	1448
BURNS U	934	1802	1749
EUGENE	557	973	1159
MEDFORD	706	1172	1126
PENDLETON	673	1060	1208
PORTLAND	565	1032	1161
SALEM	624	1233	1176
SEXTON SUMMIT R	827	1783	1555
PENNSYLVANIA			
ALLENTOWN	482	868	1116
ERIE	546	1141	1370
HARRISBURG	445	764	980
PHILADELPHIA	372	569	851
PITTSBURGH	554	1108	1204
PITTSBURGH U	467	876	989
SCRANTON	509	966	1258
WILLIAMSPORT	529	1031	1184
RHODE ISLAND			
BLOCK ISLAND	427	685	970
PROVIDENCE	506	949	1104
SOUTH CAROLINA			
CHARLESTON	221	261	345
CHARLESTON U	173	196	261
COLUMBIA	296	352	453
GRNVLLE-SPRTNBRG	361	503	574
SOUTH DAKOTA			
ABERDEEN	921	1548	1803
HURON	966	1656	1651
RAPID CITY	929	1647	1583
SIOUX FALLS	937	1623	1615
TENNESSEE			
BRISTOL	451	685	865
CHATTANOOGA	474	679	674
KNOXVILLE	437	651	659
MEMPHIS	352	482	572
NASHVILLE	398	604	688
OAK RIDGE	490	772	773
TEXAS			
ABILENE	327	479	425
AMARILLO	569	831	787
AUSTIN	204	232	244
BROWNSVILLE	74	79	40
CORPUS CHRISTI	107	111	88
DALLAS FT WORTH	266	303	347
DEL RIO	180	196	218
EL PASO	399	485	494
GALVESTON	126	130	117
HOUSTON INTERCON	217	243	179
LUBBOCK	436	634	656
MIDLAND	340	462	437
PORT ARTHUR	209	225	219
SAN ANGELO	320	427	371
SAN ANTONIO	214	236	211
VICTORIA	165	171	138
WACO	230	259	292
WICHITA FALLS	338	477	461
UTAH			
MILFORD	944	1578	1401
SALT LAKE CITY	825	1253	1289
WENDOVER	888	1358	1262
VERMONT			
BURLINGTON	681	1382	1602
VIRGINIA			
LYNCHBURG	432	677	807
NORFORK	290	394	552
RICHMOND	356	504	704
ROANOKE	415	647	816
WALLOPS ISLAND	324	453	658
WASHINGTON			
OLYMPIA	703	1610	1487
QUILLAYUTE	628	1736	1705
SEATTLE	566	1142	1183
SEATTLE-TACOMA	594	1196	1341
SPOKANE	933	1720	1682
STAMPEDE PASS R	1060	2937	2727
WALLA WALLA U	611	998	1088
YAKIMA	809	1423	1464
WEST VIRGINIA			
BECKLEY	530	967	1222
CHARLESTON	441	774	901
ELKINS	596	1106	1344
HUNTINGTON	445	764	896
PARKERSBURG U	480	884	914
WISCONSIN			
GREEN BAY	769	1597	1684
LA CROSSE	741	1383	1466
MADISON	687	1364	1609
MI'WAUKEE	610	1187	1486
WYOMING			
CASPER	969	1767	1728
CHEYENNE	920	1759	1693
LANDER	1079	1897	1817
SHERIDAN	1003	1868	1785

COOLING DEGREE DAYS

(Base 65 F.)

NOVEMBER 1975

State and station	Current season: This month	Current season: Period January through this month	Normals January through this month
ALABAMA			
BIRMINGHAM	29	1856	1928
HUNTSVILLE	1	1568	1808
MOBILE	85	2721	2567
MONTGOMERY	80	2349	2238
ALASKA			
ANCHORAGE	0	2	0
ANNETTE	0	8	14
BARROW	0	0	0
BARTER ISLAND	0	0	0
BETHEL	0	1	0
BETTLES	0	59	17
BIG DELTA	0	21	34
COLD BAY	0	0	0
FAIRBANKS	0	175	52
GULKANA	0	22	9
HOMER	0	0	0
JUNEAU	0	7	0
KING SALMON	0	0	0
KODIAK	0	0	0
KOTZEBUE	0	0	0
MC GRATH	0	18	14
NOME	0	1	0
ST. PAUL ISLAND	0	0	0
SUMMIT	0	0	0
TALKEETNA	0	10	6
UNALAKLEET	0	4	0
VALDEZ	0	0	0
YAKUTAT	0	0	0
ARIZONA			
FLAGSTAFF	0	88	140
PHOENIX	45	3784	3508
TUCSON	27	2592	2814
WINSLOW	0	1046	1203
YUMA	46	3763	4189
ARKANSAS			
FORT SMITH	23	1715	2022
LITTLE ROCK	14	1939	1925
CALIFORNIA			
BAKERSFIELD	1	2649	2179
BISHOP	0	1048	1037
BLUE CANYON	0	374	302
EUREKA U	0	0	0
FRESNO	0	1672	1671
LONG BEACH	18	971	985
LOS ANGELES	21	498	619
LOS ANGELES U	26	927	1185
MT SHASTA R	0	271	286
OAKLAND	0	105	129
RED BLUFF		1883	1904
SACRAMENTO	0	1654	1159
SANDBERG R	0	759	800
SAN DIEGO	6	548	722
SAN FRANCISCO	0	80	108
SAN FRANCISCO U	0	55	39
SANTA MARIA	2	35	84
STOCKTON	0	1376	1259
COLORADO			
ALAMOSA	0	28	68
COLORADO SPRINGS	0	480	461
DENVER	0	554	625
GRAND JUNCTION	0	1004	1140
PUEBLO	0	1008	981
CONNECTICUT			
BRIDGEPORT	4	804	735
HARTFORD	6	870	484
DELAWARE			
WILMINGTON	5	1101	992
DIST.OF COLUMBIA			
WASHINGTON DULLES	[illegible]	1001	940
WASHINGTON NATIONAL	15	1654	1415
FLORIDA			
APPALACHICOLA U	86	2601	2649
DAYTONA BEACH	153	3210	2874
FORT MYERS	224	4179	3605
JACKSONVILLE	99	2782	2577
KEY WEST	322	5105	4468
LAKELAND U	174	3547	3235
MIAMI	[illegible]	4392	3979
ORLANDO	167	[illegible]	3164
PENSACOLA	96	2633	2683
TALLAHASSEE	89	2601	2553
TAMPA	191	3965	3302
WEST PALM BEACH	235	3864	3652
GEORGIA			
ATHENS	24	1837	1722
ATLANTA	21	1600	1589
AUGUSTA	43	1982	1995
COLUMBUS	[illegible]	[illegible]	2143
MACON	[illegible]	2077	2294
ROME	[illegible]	1666	1615
SAVANNAH	[illegible]	2572	2311
HAWAII			
HILO	262	2911	2861
HONOLULU	372	3909	3951
KAHULUI	271	3196	3496
LIHUE	365	3649	3486
IDAHO			
BOISE	0	789	714
LEWISTON	0	761	657
POCATELLO	0	440	437
ILLINOIS			
CAIRO U	8	1914	1806
CHICAGO O HARE	1	1040	664
CHICAGO MIDWAY	4	1124	925
MOLINE	0	1044	893
PEORIA	0	988	968
ROCKFORD	0	844	714
SPRINGFIELD	0	1200	1116
INDIANA			
EVANSVILLE	1	1500	1364
FORT WAYNE	1	833	748
INDIANAPOLIS	0	1046	974
SOUTH BEND	1	853	695
IOWA			
BURLINGTON	0	1051	994
DES MOINES	0	1237	928
DUBUQUE	0	692	606
SIOUX CITY	0	1013	932
WATERLOO	0	909	675
KANSAS			
CONCORDIA	0	1400	1302
DODGE CITY	0	1505	1411
GOODLAND	0	881	925
TOPEKA	3	1474	1361
WICHITA	0	1512	1673
KENTUCKY			
COVINGTON	3	1161	1080
LEXINGTON	0	1263	1197
LOUISVILLE	5	1506	1268
LOUISIANA			
ALEXANDRIA	68	2550	2193
BATON ROUGE	94	2602	2579
LAKE CHARLES	79	2597	2732
NEW ORLEANS	114	2621	2695
SHREVEPORT	34	2216	2538
MAINE			
CARIBOU	0	271	128
PORTLAND	0	351	252
MARYLAND			
BALTIMORE	10	1245	1108
MASSACHUSETTS			
BLUE HILL OBS R	0	565	457
BOSTON	4	862	661
WORCHESTER	0	453	387
MICHIGAN			
ALPENA	0	380	208
DETROIT	0	1154	743
DETROIT METRO	0	731	654
FLINT	0	551	438
GRAND RAPIDS	0	619	575
HOUGHTON LAKE	0	369	250
LANSING	0	608	535
MARQUETTE U	0	413	216
MUSKEGON	0	583	469
SAULT STE MARIE	0	243	139
MINNESOTA			
DULUTH	0	229	176
INTERNATIONAL FALLS	0	328	176
MINNEAPOLIS	0	850	585
ROCHESTER	0	712	474
ST CLOUD	0	542	426
MISSISSIPPI			
JACKSON	59	2293	2316
MERIDIAN	22	2216	2231
MISSOURI			
COLUMBIA REGIONAL	0	1126	1269
KANSAS CITY	1	1534	1420
ST JOSEPH	2	1497	1334
ST LOUIS	4	1431	1475
SPRINGFIELD	1	1349	1382
MONTANA			
BILLINGS	0	478	498
GLASGOW		378	438
GREAT FALLS		315	339
HAVRE		353	395
HELENA	0	167	256
KALISPELL	0	207	117
MILES CITY	0	630	752
MISSOULA	0	258	188
NEBRASKA			
GRAND ISLAND	0	1060	1036
LINCOLN	0	1282	1148
NORFORK	0	1080	925
NORTH PLATTE	0	727	802
OMAHA	0	1389	1173
SCOTTSBLUFF	0	792	666
VALENTINE	0	901	736
NEVADA			
ELKO	0	283	342
ELY	0	168	207
LAS VEGAS	2	2973	2946
RENO	0	348	329
WINNEMUCCA	0	488	407
NEW HAMPSHIRE			
CONCORD	0	553	349
MT WASHINGTON OBS	0	1	0
NEW JERSEY			
ATLANTIC CITY	0	883	864
ATLANTIC CITY U	0	821	835
NEWARK	10	1100	1024
TRENTON U	10	1070	968
NEW MEXICO			
ALBUQUERQUE	0	1100	1316
CLAYTON	0	719	767
ROSWELL	3	1437	1560
NEW YORK			
ALBANY	2	597	574
BINGHAMTON	0	552	369
BUFFALO	0	634	437
NEW YORK U	15	1025	1068
NEW YORK KENNEDY	7	887	861
NEW YORK LA GUARDIA	9	953	1048
ROCHESTER	0	656	531
SYRACUSE	0	555	551
NORTH CAROLINA			
ASHEVILLE	0	795	872
CAPE HATTERAS R	32	1940	1550
CHARLOTTE	11	1601	1596
GREENSBORO	7	1576	1341
RALEIGH	12	1452	1394
WILMINGTON	45	2373	1964
NORTH DAKOTA			
BISMARCK	0	433	487
FARGO	0	553	473
WILLISTON	0	376	422
OHIO			
AKRON	0	775	634
CINCINNATI ABBE OB	6	1364	1188
CLEVELAND	0	720	613
COLUMBUS	1	1147	809
DAYTON U	7	974	936
MANSFIELD	0	746	818
TOLEDO	0	692	685
YOUNGSTOWN	0	656	518
OKLAHOMA			
OKLAHOMA CITY	4	1615	1876
TULSA	12	1929	1949
OREGON			
ASTORIA	0	23	13
BURNS U	0	347	289
EUGENE	0	293	239
MEDFORD	0	602	562
PENDLETON	0	834	656
PORTLAND	0	342	300
SALEM	0	197	232
SEXTON SUMMIT R	0	283	137
PACIFIC AREA			
GUAM TAGUAC R	405	4617	4592
JOHNSTON	410	4493	4695
KOROR R	527	5613	5503
KWAJALEIN	479	5576	5649
MAJURO	439	5095	5405
PAGO PAGO	464	5109	4860
PONAPE R	459	5321	5168
TRUK MOEN ISLAND	473	5521	5383
WAKE	463	4960	5033
YAP R	477	5199	5420
PENNSYLVANIA			
ALLENTOWN	1	791	772
ERIE	0	588	373
HARRISBURG	2	1026	1025
PHILADELPHIA	12	1243	1104
PITTSBURGH	0	721	647
SCRANTON	0	749	608
WILLIAMSPORT	0	604	698
RHODE ISLAND			
BLOCK ISLAND	0	1010	359
PROVIDENCE	[illegible]	694	532
SOUTH CAROLINA			
CHARLESTON	58	2498	2078
CHARLESTON U	60	2610	2347
COLUMBIA	37	2230	2087
GRNVLLE-SPRTNBRG	7	1547	1573
SOUTH DAKOTA			
ABERDEEN	0	877	566
HURON	0	910	711
RAPID CITY	0	583	661
SIOUX FALLS	0	910	749
TENNESSEE			
BRISTOL	0	1109	1107
CHATTANOOGA	1	1365	1636
KNOXVILLE	0	1530	1569
MEMPHIS	23	2182	2029
NASHVILLE	19	1698	1694
OAK RIDGE	0	1156	1367
TEXAS			
ABILENE	13	2039	2466
AMARILLO	0	1235	1433
AUSTIN	72	2616	2903
BROWNSVILLE	176	3788	3797
CORPUS CHRISTI	161	3685	3437
DALLAS FT WORTH	39	2600	2587
DEL RIO	78	2914	3363
EL PASO	1	1950	2098
GALVESTON	106	3002	2987
HOUSTON INTERCON	68	2632	2878
LUBBOCK	0	1467	1647
MIDLAND	5	1927	2250
PORT ARTHUR	71	2642	2790
SAN ANGELO	18	2058	2702
SAN ANTONIO	80	2622	2987
VICTORIA	116	3322	3125
WACO	83	2619	2863
WICHITA FALLS	13	2190	2611
UTAH			
MILFORD	0	475	688
SALT LAKE CITY	0	900	927
WENDOVER	0	1113	1137
VERMONT			
BURLINGTON	0	699	396
VIRGINIA			
LYNCHBURG	4	1091	1100
NORFORK	17	1744	1441
RICHMOND	18	1433	1353
ROANOKE	5	1152	1030
WALLOPS ISLAND	7	1282	1107
WASHINGTON			
OLYMPIA	0	59	101
QUILLAYUTE	0	6	8
SEATTLE	0	120	183
SEATTLE-TACOMA	0	197	129
SPOKANE	0	340	388
STAMPEDE PASS R	0	36	16
WALLA WALLA U	3	800	862
YAKIMA	0	484	479
WEST INDIES			
SAN JUAN P.R.	450	5242	4616
WEST VIRGINIA			
BECKLEY	0	548	490
CHARLESTON	4	1074	1055
ELKINS	0	397	389
HUNTINGTON	2	1274	1098
PARKERSBURG U	1	1051	1045
WISCONSIN			
GREEN BAY	0	514	386
LA CROSSE	0	814	695
MADISON	0	742	400
MILWAUKEE	0	598	450
WYOMING			
CASPER	0	395	458
CHEYENNE	0	193	327
LANDER	0	325	383
SHERIDAN	0	293	446

STORM SUMMARY

NOVEMBER 1975

STATE		TORNADOES					HAILSTORMS				WINDSTORMS				LIGHTNING				@HEAVY SNOWSTORMS AND BLIZZARDS				# ICE STORMS				ϕ ALL OTHER			
									†DAMAGE				†DAMAGE				†DAMAGE				†DAMAGE				†DAMAGE				†DAMAG	
		NUMBER	DAYS	DEATHS	INJURIES	† DAMAGE	DEATHS	INJURIES	PROP-ERTY	CORPS	DEATHS	INJURIES	PROP-ERTY	CORPS	DEATHS	INJURIES	PROP-ERTY	CORPS	DEATHS	INJURIES	PROP-ERTY	CORPS	DEATHS	INJURIES	PROP-ERTY	CORPS	DEATHS	INJURIES	PROP-ERTY	CORPS
Alabama		2	1		1	4																								
Alaska	*																													
Arizona												5	5																	
Arkansas												1	4																	
California																			3	10	4									
Colorado													5						1	?	6	6								
Connecticut	*																													
Delaware	*																													
Florida		3	2			5																								
Georgia													4																	
Hawaii		1	1			3																					1	2	4	
Idaho													5								4									
Illinois		7	4		2	6						11	6				4													
Indiana		2	1		18	5					1	2	5																	
Iowa		9	1		7	6					1		5				4				?									
Kansas		1	1			5			4			1	5								6									
Kentucky												5	5	4																
Louisiana																													4	
Maine													3								4				3					
Maryland & DC													4																	
Massachusetts																											1	17	4	
Michigan		1	1			4					31	4	7																	
Minnesota																			7	16	6									
Mississippi																									?	?			?	?
Missouri		2	1			5			3		1	4	6																	
Montana	*																													
Nebraska									3				5						1	?	6									
Nevada	*																													
New Hampshire													4												4					
New Jersey	*																													
New Mexico													5																	
New York											2	1	6	?																
North Carolina	*																													
North Dakota																								1						
Ohio		1	1			5							5																	
Oklahoma		4	1			5			1	1		2	4																3	
Oregon												?	6	?															?	
Pacific		1	1		?	6																						?	°6	C
Pennsylvania		1	1		1	4							5																	
Puerto Rico																											2			
Rhode Island	*																													
South Carolina		3	1		14	5															?									
South Dakota																			1											
Tennessee		1	1			4						1	5																	
Texas		1	1			4							5																	
Utah																			5	20	5									
Vermont	*																													
Virginia													1																	
Virgin Islands	*																													
Washington	*																													
West Virginia	‡																													
Wisconsin												5	5				4			?	5							?	4	
Wyoming	*																													

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

NOVEMBER 1975

Herbert J. Thompson, Office of Hydrology

There was no serious river flooding during November. However, severe urban flooding was reported in several areas. These included Birmingham, Mobile, and Baldwin County, AL, New Orleans, LA, and San Juan, Puerto Rico.

Minor lowland flooding continued from October on the lower Savannah River in Georgia, the lower Pearl and upper Calcasieu Rivers in Louisiana, and along the Missouri River in Nebraska.

Some minor to moderate flooding occurred in scattered areas of the country during the month. Streams affected were the Assunpink River in New Jersey, the Neuse, lower Congaraee and Savannah Rivers in the Southeast, the lower Pearl River in Louisiana, Cedar Creek in Iowa, Stranger Creek in Kansas, the Big Black River in Mississippi, the lower Trinity River in Texas, and several streams in the north Pacific coastal area. Ice jam flooding was reported along Willow Creek in Alaska.

These and other hydrologic events of unusual significance or involving loss of life or property damage are discussed in more detail below.

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ATLANTIC SLOPE DRAINAGE		
New Jersey Streams	November streamflow was above normal for the seventh consecutive month and was excessive for the fifth consecutive month in some portions of the State. However, the only flooding reported was on the Assunpink River, which went slightly over flood stage at Trenton as a result of rainfall amounts of more than 2 inches on the 12th-13th.	0	N.A.
Southeast Atlantic Coast Streams	There were two periods of relatively heavy rainfall during November. Amounts of 1.5 to 3 inches occurred on the 7th-8th and 1.5 to 6 inches on the 10th-13th with the heavier amounts in the mountainous headwaters. The Neuse River went slightly over flood stage at Smithfield, NC, on the 14th. Lowland flooding was reported below Columbia, SC, on the Congaree River the 14th-17th. Lowland flooding continued on the lower Savannah River from late October ending on the 13th and occurred again from the 18th into December.	0	N.A.
	EAST GULF OF MEXICO DRAINAGE		
Tombigbee River Basin	There was no river flooding during November, however, three instances of urban flooding occurred in the basin. On the 6th, Mobile, AL, received 7 inches of rain, of which 6.68 inches fell during an 8.5-hour period and over 3 inches in a one-hour period. Low areas were inundated by 2.5 to 3 feet of water. Some evacuations were necessary, and 20 people were stranded along Three Mile Creek. On the 9th rainfall of 5.5 inches caused road and highway flooding in Baldwin County. Locally heavy rainfall in the Birmingham, AL, area on the evening of the 11th caused urban flooding in the Huffman and Roebuck areas with water up to a foot in depth. More than 2 inches of rain was recorded at the Birmingham office.	0	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

NOVEMBER 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	EAST GULF OF MEXICO DRAINAGE-Cont'd		
Pearl River	Flooding continued from October on the lower Pearl River in Louisiana, ending by the 5th. Rains of 2.5 inches on the 5th-7th above Bogalusa, LA, caused flooding there on the 8th-13th, with a crest 1.7 feet over flood stage on the 11th.	0	N.A.
	UPPER MISSISSIPPI DRAINAGE		
Des Moines River Basin	From 3 to 7 inches of snow fell over the area on the 26th. This was followed by rains of 1 to 3 inches on the 29th, which caused complete removal of the snow cover. Rises occurred on all streams in the area with Cedar Creek exceeding flood stage by about 1.5 feet on the 30th. There was little damage at this season of the year.	0	N.A.
	MISSOURI BASIN		
Kansas River Basin	Rains of about 2 to 4 inches occurred on the 1st-2d without significant runoff. From 5 to 10 inches of snow fell over the area on the 19th and 6 to 12 inches on the 25th, followed by several days of low temperatures. On the 29th extremely warm air with temperatures in the upper 60's was advected over the area resulting in rapid snowmelt and saturated soil conditions. That evening thunderstorms produced 1 to over 2 inches of rain over the area. Some small stream flooding occurred and Stranger Creek crested 1.6 feet over flood stage on December 1. No significant damage occurred at this season of the year.	0	N.A.
Missouri River	The record high releases from upstream reservoirs continued throughout November with lowland flooding along the Ponca to Rulo, NE, reach. No reporting stations were over flood stage.	0	N.A.
	LOWER MISSISSIPPI BASIN		
Big Black River	Lowland flooding occurred along the Big Black River in Mississippi on the 7th-14th with a crest 3.3 feet over flood stage on the 8th. Timber and agricultural land was affected. Rains of up to 2 inches over the headwaters on the 5th-6th caused the flooding with the stream already at high levels from the previous month.	0	N.A.
Lower Mississippi	Serious urban flooding occurred at and in the vicinity of Moissant International Airport on the afternoon of the 5th. The airport station, just outside New Orleans, reported 8.54 inches of rain that afternoon.		
Southeast Texas Streams	From 2 to 3 inches of rain fell over the headwaters of Pine Island Bayou on the 1st-3d with the stream exceeding bankfull stage but cresting short of flood stage. Up to 3.6 inches of rain was reported over the lower Trinity River with the stream slightly exceeding flood stage at Moss Bluff.	0	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

NOVEMBER 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	PACIFIC SLOPE DRAINAGE		
Coastal and Willamette Basin Streams in Oregon	Precipitation of 2 to 5 inches over the north Coastal Range the last of November caused up to one foot of flooding on the South Yamhill River in the Willamette Basin and the Siletz River. The Wilson River crested nearly 2 feet over flood stage at Tillamook and minor flooding occurred on the Nehalem River.	0	32
North Coastal Streams in Washington	Rains ranging up to more than 3 inches on the 23d-24th caused strong rises on several coastal streams. The Nooksack River crested 0.5 foot over flood stage at Deming. The Skagit, Stillaguamish, Snoqualmie, and Snohomish Rivers crested near flood stage with possible minor flooding on the latter two streams.	0	N.A.
	ALASKA		
	Ice formation on the bottoms of streams in the Anchorage and Valdez areas and in the Mantanuska and Susitna Basins occurred during November resulting from high radiation losses on clear, cold nights. This caused ice jam flooding on Willow Creek in the Susitna Valley affecting a reach 10 miles long, threatening 15 homes, and causing the evacuation of 5 families. No stage or damage reports are available.	0	N.A.
	PUERTO RICO		
	Severe urban flooding and some small stream flooding (Margarita Creek) occurred on the 19th in the western portion of the San Juan metropolitan area. Rainfall amounts of 5 to 7 inches during a 3-hour period were responsible for this flooding. No river flooding was reported, although heavy showers continued over the western portion of the island for several days following this event with some additional drainage flooding and rivers reaching bankfull stages.	0	N.A.

FLOOD STAGE DATA

(All dates in November unless otherwise specified)

River and station	Flood stage	Above flood stages —dates		Crest	
		From—	To	Stage	Date
	Ft			Ft	
ATLANTIC SLOPE DRAINAGE					
Assunpink:					
Trenton, NJ	7	13	13	7.24	13
Neuse:					
Smithfield, NC	13	14	14	13.1	14
Savannah:					
Clyo, GA	11	Oct 28 18	13 1/	11.8 11.6	11-12 25-26
EAST GULF OF MEXICO DRAINAGE					
Pearl:					
Bogalusa, LA	15	Oct 19 8	4 13	18.7 16.7	Oct 31-1 11
Pearl River, LA	12	Oct 25	5	12.8	2-4
UPPER MISSISSIPPI DRAINAGE					
Cedar Creek:					
Bussey, IA	16.5	29	30	18.05	30
Missouri Basin					
Stranger Creek:					
Easton, KS	15	30	Dec 1	16.60	Dec 1
Lower Mississippi Basin					
Big Black:					
West, MS	12	7	14	15.3	8
WEST GULF OF MEXICO DRAINAGE					
Calcasieu:					
Hineston, LA	12	Oct 26	2	15.3	Oct 28
Trinity:					
Moss Bluff, TX	4	1	4	4.1	2
PACIFIC SLOPE DRAINAGE					
Siletz:					
Siletz, OR	16	30	30	E17.0	30
Wilson:					
Tillamook, OR	11	30	30	E12.8	30
Nehelam:					
Foss, OR	13	30	30	13.1	30
South Yamhill:					
Willamina 2 S, OR	8	30	1/	8.85	30
Nooksack:					
Deming, WA	12	U	U	12.5	24

River and station	Flood stage	Above flood stages —dates		Crest	
		From	To--	Stage	Date
	Ft			Ft	

Clemson University Library

RAWINSONDE DATA

Average monthly values

NOVEMBER 1975

ALBANY, NY
1009 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C *	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	86	4.7	1.9	23	1.4
1000	26	179	5.8	.9	23	1.7
950	30	581	5.3	.2	26	5.4
900	30	1,022	3.8	-2.7	27	8.7
850	30	1,485	1.9	-5.1	28	10.4
800	30	1,974	.7	-9.2	28	11.2
750	30	2,491	-.6	-12.6	27	13.5
700	30	3,040	-3.5	-16.5	28	15.4
650	30	3,622	-6.3	-18.7	27	16.6
600	30	4,245	-9.5	-21.8	27	19.0
550	30	4,912	-13.5	-26.2	27	20.8
500	30	5,631	-18.0	-30.6	27	21.7
450	29	6,408	-23.2	-34.2	27	24.1
400	29	7,260	-29.7	-39.3	26	25.7
350	29	8,201	-36.7	-44.0	26	27.5
300	29	9,248	-44.4		27	28.2
250	29	10,450	-51.5		26	28.0
200	29	11,876	-57.2		27	30.3
175	29	12,719	-58.2		27	28.2
150	29	13,687	-59.3		27	27.0
125	29	14,823	-61.4		26	23.3
100	29	16,199	-63.6		27	19.9
80	29	17,568	-63.4		27	15.1
70	29	18,391	-62.2		27	11.1
60	26	19,355	-60.8		27	9.5
50	26	20,491	-60.0		27	8.4
40	26	21,886	-59.0		26	6.2
30	26	23,704	-56.2		26	6.0
25	25	24,873	-55.1		27	6.1
20	24	26,304	-53.4		27	6.3
15	21	28,169	-51.1		26	7.1
10	19	30,864	-48.2		26	4.1

ALBUQUERQUE, NM
839 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C *	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	1,619	.3	-9.0	02	.4
1000						
950						
900						
850						
800	30	2,000	4.7	-10.6	30	2.2
750	30	2,523	2.3	-12.2	29	5.1
700	30	3,078	-.8	-15.4	29	7.6
650	30	3,666	-3.8	-18.2	29	10.0
600	30	4,295	-7.0	-20.7	29	13.0
550	30	4,970	-10.2	-25.5	29	16.0
500	30	5,697	-14.8	-29.4	28	17.9
450	29	6,487	-20.1	-34.5	28	19.0
400	29	7,349	-26.2	-40.3	28	19.9
350	29	8,305	-33.1	-46.1	28	22.1
300	29	9,368	-41.2	-52.6	28	24.6
250	29	10,584	-49.5		28	26.3
200	29	12,023	-55.9		28	25.8
175	28	12,875	-58.6		28	22.1
150	28	13,836	-61.4		27	21.2
125	28	14,957	-65.2		28	20.9
100	28	16,305	-67.9		28	16.6
80	27	17,654	-67.3		28	12.3
70	26	18,457	-66.3		28	8.6
60	24	19,396	-64.5		27	6.0
50	22	20,517	-62.7		28	4.5
40	21	21,908	-60.3		27	4.3
30	21	23,719	-56.6		27	4.5
25	21	24,881	-54.7		26	4.8
20	19	26,339	-52.8		26	4.5
15	16	28,205	-50.0		26	8.4
10	12	30,900	-45.1		28	12.8

AMARILLO, TX
891 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C *	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	1,095	2.2	-4.8	28	2.6
1000						
950						
900						
850	30	1,475	6.8	-6.5	29	5.4
800	30	1,972	5.7	-9.2	29	7.2
750	30	2,498	3.3	-11.5	29	8.7
700	30	3,054	.3	-14.5	28	10.2
650	30	3,645	-2.8	-17.8	28	10.8
600	30	4,275	-6.3	-21.6	28	10.8
550	30	4,950	[illegible]	-24.9	28	12.7
500	30	5,676	-15.4	-30.2	28	15.2
450	30	6,463	-20.7	-34.5	28	15.7
400	30	7,324	-26.8	-39.8	27	18.3
350	30	8,276	-34.0	-45.2	28	17.7
300	30	9,335	-41.9	-52.3	28	19.5
250	30	10,548	-49.9		28	24.2
200	29	11,985	-56.1		28	22.3
175	28	12,838	-58.6		28	23.2
150	28	13,801	-61.5		28	23.1
125	28	14,923	-64.5		28	19.0
100	28	16,275	-67.9		29	13.7
80	28	17,616	-67.7		28	11.6
70	28	18,424	-66.1		28	8.1
60	27	19,361	-65.0		28	4.8
50	27	20,478	-63.1		27	6.5
40	26	21,860	-60.4		26	5.5
30	22	23,689	-57.3		25	4.2
25	20	24,871	-55.6		26	2.4
20	18	26,305	-52.7		27	4.8
15	15	28,203	-48.8		26	9.1
10	6	30,915	-43.1			

● **ANCHORAGE, AK**
998 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C *	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	29	45	-9.5	-14.7	02	1.9
1000	12	147	-4.9	-8.8	36	1.9
950	29	430	-7.8	-14.0	02	3.1
900	29	850	-8.5	-14.6	04	2.6
850	29	1,292	-9.7	-17.5	05	2.3
800	29	1,758	-12.4	-19.4	08	1.8
750	29	2,249	-15.1	-23.1	11	1.5
700	29	2,767	-18.5	-27.2	19	1.2
650	29	3,316	-21.8	-31.0	24	1.8
600	29	3,901	-25.7	-34.7	26	2.5
550	29	4,527	-30.1	-38.7	25	3.6
500	29	5,199	-34.5	-43.0	25	[illegible]
450	29	5,928	-39.7	-44.3	25	5.9
400	29	6,724	-44.9	-45.3	25	6.7
350	28	7,610	-49.9		26	10.8
300	28	8,608	-53.2		25	7.7
250	28	9,782	-52.9		25	9.2
200	28	11,227	-51.2		25	11.1
175	28	12,095	-51.4		26	9.7
150	28	13,095	-52.2		26	11.8
125	28	14,274	-53.0		27	13.3
100	28	15,711	-53.8		26	15.3
80	28	17,142	-54.5		26	17.6
70	28	17,997	-54.9		27	17.7
60	28	18,980	-55.7		27	18.9
50	27	20,128	-56.4		27	20.9
40	25	21,568	-56.2		28	23.3
30	23	23,375	-56.2		28	25.9
25	22	24,540	-56.8		28	27.9
20	21	25,974	-56.9		28	30.4
15	16	27,827	-55.5		29	32.3
10	9	30,506	-56.2			

● **ANNETTE, AK**
1006 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C *	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	37	2.9	-.6	15	2.4
1000	15	148	3.0	-2.8	15	3.2
950	30	465	.7	-3.9	16	5.5
900	30	898	[illegible]	-6.5	18	7.2
850	30	1,350	-4.9	-9.0	19	7.7
800	30	1,824	-8.0	-12.8	[illegible]	7.9
750	30	2,323	-10.8	-17.7	[illegible]	[illegible]
700	30	2,850	-14.1	-21.6	[illegible]	8.8
650	30	3,409	[illegible]	-25.6	[illegible]	8.7
600	30	[illegible]	[illegible]	-29.6	24	9.7
550	30	4,640	-25.4	[illegible]	25	[illegible]
500	29	5,327	[illegible]	[illegible]	[illegible]	[illegible]
450	29	[illegible]	-34.6	[illegible]	[illegible]	16.2
400	29	6,884	-40.0	-43.5	27	19.4
350	29	7,788	-45.3		27	21.7
300	29	8,801	-50.8		27	19.1
250	29	9,978	-53.9		26	19.6
200	28	11,410	-54.2		26	17.7
175	28	12,266	-54.0		26	18.4
150	28	13,256	-53.9		26	18.4
125	28	14,425	-54.9		[illegible]	17.0
100	28	15,849	[illegible]		[illegible]	18.0
80	27	17,283	-55.8		[illegible]	[illegible]
70	27	18,134	-56.1		27	17.5
60	27	19,112	-56.7		28	17.9
50	26	20,263	-56.8		27	18.0
40	25	21,675	-57.1		28	19.1
30	24	23,498	-58.3		29	16.6
25	23	24,655	-57.9		28	16.9
20	22	26,065	-57.5		29	19.3
15	18	27,910	-57.9			
10	8	30,529	-53.8			

ATHENS, GA
992 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C *	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	246	7.6	4.9	32	.7
1000						
950	30	607	10.9	3.8	24	1.2
900	30	1,057	9.1	1.7	24	2.6
850	30	1,530	7.5	-2.0	23	5.1
800	30	2,028	6.5	-6.4	23	6.7
750	30	2,556	4.3	-9.1	23	8.0
700	30	3,115	1.6	-14.1	24	9.2
650	30	3,709	-1.3	-17.1	25	10.1
600	30	4,343	-4.9	-20.3	25	11.7
550	30	5,022	-9.2	-24.3	25	12.7
500	30	5,752	-14.3	-29.8	25	14.5
450	30	6,543	-19.5	-34.9	26	16.3
400	29	7,404	-25.8	-40.1	26	19.0
350	29	8,362	-32.5	-44.9	26	21.5
300	29	9,427	-40.7	-48.8	26	24.8
250	29	10,646	-48.9		26	29.8
200	28	12,078	-57.2		26	32.0
175	28	12,916	-60.6		26	29.6
150	28	13,867	-64.2		27	26.1
125	28	14,976	-66.9		27	20.8
100	28	16,315	-69.4		27	14.6
80	28	17,645	-69.0		26	10.8
70	28	18,447	-67.6		26	9.0
60	27	19,381	-64.7		26	7.5
50	27	20,501	-62.2		26	7.0
40	27	21,889	-59.6		26	6.7
30	26	23,703	-56.5		26	6.7
25	24	24,857	-54.1		26	7.9
20	24	26,298	-51.5		26	8.1
15	22	28,185	-47.9		26	11.0
10	14	30,873	-43.6			

● **BARROW, AK**
1013 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C *	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	25	8	-24.4	-26.9	02	.5
1000	22	114	-21.9	-23.2	01	1.9
950	25	481	-17.9	-21.9	36	1.2
900	25	886	-16.7	-22.2	33	1.3
850	25	1,315	-17.1	-23.9	32	1.5
800	25	1,769	-18.2	-25.9	32	1.5
750	25	2,250	-19.9	-28.5	32	1.9
700	25	2,759	-22.4	-30.3	31	2.5
650	25	3,300	-25.2	-33.2	30	2.3
600	25	3,877	-28.9	-36.2	29	2.6
550	25	4,494	-33.1	-39.9	27	2.0
500	25	5,158	-38.0	-42.4	27	2.8
450	25	5,876	-43.0	-45.7	25	2.9
400	25	6,661	-48.4		24	2.9
350	25	7,531	-54.0		23	3.4
300	25	8,507	-58.3		23	4.0
250	25	9,653	-58.4		26	4.4
200	25	11,062	-56.9		26	7.4
175	25	11,910	-56.3		27	7.7
150	25	12,889	-56.2		27	9.5
125	24	14,050	-56.9		27	10.4
100	23	15,449	-58.3		27	12.5
80	21	16,834	-60.1		27	14.8
70	20	17,675	-61.0		27	16.1
60	19	18,647	-61.6		28	17.2
50	17	19,804	-61.4		28	20.1
40	11	21,328	-60.5			
30	5	23,445	-56.1			

BARTER ISLAND, AK
1012 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C *	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	15	-24.2	-27.5	22	2.3
1000	28	109	-21.1	-23.7	23	2.4
950	30	483	-17.4	-22.3	26	2.9
900	30	890	-16.2	-22.2	25	2.1
850	30	1,320	-16.8	-22.7	25	1.8
800	30	1,775	-17.6	-24.9	25	1.4
750	30	2,256	-19.5	-27.2	23	1.2
700	30	2,766	-21.9	-29.9	25	.8
650	30	3,309	-24.7	-33.0	27	1.4
600	30	3,887	-28.5	-36.7	26	1.4
550	30	4,505	-32.6	-40.5	25	1.9
500	30	5,171	-37.0	-43.3	26	1.9
450	29	5,893	-41.7	-46.7	25	3.0
400	28	6,668	-47.6		24	2.8
350	28	7,542	-53.0		25	3.0
300	28	8,522	-57.5		24	2.9
250	28	9,668	-58.5		26	4.1
200	28	11,082	-56.0		27	7.0
175	28	11,933	-55.3		27	8.2
150	28	12,916	-55.6		27	9.6
125	28	14,077	-56.1		27	11.0
100	28	15,492	-57.3		27	13.2
80	28	16,899	-58.5		28	15.3
70	27	17,741	-58.7		28	16.7
60	25	18,707	-59.8		28	17.5
50	23	19,861	-60.6		28	20.5
40	21	21,276	-61.3		28	22.9
30	18	23,096	-61.9		29	29.2
25	16	24,251	-61.0		29	30.5
20	15	25,644	-61.1		29	32.8
15	7	27,463	-60.4			

BETHEL, AK
1003 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C *	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	28	39	-14.2	-17.8	03	2.6
1000	15	131	-11.7	-13.8	35	2.1
950	28	460	-8.6	-14.6	06	3.3
900	28	879	-9.5	-16.9	07	2.6
850	28	1,319	-10.9	-19.2	04	1.4
800	28	1,784	-12.8	-22.3	35	1.0
750	28	2,274	-15.3	-25.3	33	1.0
700	28	2,792	-18.5	-27.3	31	1.1
650	28	3,341	-22.0	-30.6	33	1.4
600	28	3,925	-25.5	-34.3	32	1.6
550	28	4,552	-28.9	-37.6	29	1.9
500	28	5,228	-33.5	-40.9	27	3.2
450	28	5,960	-38.4	-43.2	26	4.6
400	28	6,761	-43.6	-44.2	26	6.7
350	28	7,650	-49.2		26	8.2
300	28	8,647	-53.9		27	8.8
250	28	9,816	-53.5		27	10.3
200	28	11,258	-52.0		27	11.2
175	28	12,124	-51.9		27	10.7
150	28	13,121	-52.6		27	11.9
125	28	14,299	-52.7		27	12.2
100	28	15,739	-52.8		27	13.7
80	27	17,192	-53.4		27	14.0
70	27	18,052	-53.5		28	13.8
60	27	19,043	-53.6		28	15.5
50	27	20,215	-53.9		27	16.3
40	26	21,662	-54.3		28	17.7
30	23	23,531	-54.3		29	19.9
25	20	24,674	-53.8		29	21.2
20	17	26,153	-53.7		29	22.1
15	11	28,121	-53.6		30	24.4

● **BISMARCK, ND**
956 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C *	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	503	-3.4	-6.3	30	.6
1000						
950	23	579	-3.1	-6.7	33	1.5
900	30	983	.4	-9.5	32	3.8
850	30	1,440	-1.1	-13.9	31	5.0
800	30	1,923	-2.8	-15.8	30	5.6
750	30	2,432	-5.2	-17.2	30	6.7
700	30	2,972	-7.7	-19.3	29	7.9
650	30	3,545	-10.4	-22.4	29	9.2
600	30	4,158	-13.6	-24.9	28	11.8
550	30	4,815	-17.7	-28.6	28	13.2
500	30	5,521	-22.6	-32.5	27	14.7
450	30	6,287	-27.8	-36.9	27	16.8
400	30	7,123	-34.2	[illegible]	26	19.5
350	30	8,047	-40.6	-42.9	26	22.4
300	30	9,079	-47.4		26	22.3
250	30	10,267	-53.5		27	23.2
200	30	11,692	-56.1		27	[illegible]
175	30	12,540	-56.9		27	24.0
150	30	13,513	-58.4		27	[illegible]
125	30	14,657	-59.2		27	20.2
100	30	16,053	-60.3		27	17.6
80	28	17,446	-60.5		27	14.2
70	28	18,277	-60.9		27	12.9
60	27	19,247	-60.1		27	11.7
50	27	20,384	-60.5		27	[illegible]
40	26	21,785	-59.7		27	9.4
30	23	23,635	-57.8		27	8.1
25	23	24,787	-57.4		28	6.6
20	21	26,246	-55.7		28	5.1
15	19	28,123	-55.0		29	6.2
10	10	30,717	-54.8			

BOISE, ID
918 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C *	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	29	871	1.6	-5.6	12	2.1
1000						
950						
900	27	1,048	3.4	-5.1	11	1.1
850	29	1,497	2.2	-7.4	23	1.7
800	29	1,984	-.9	-8.4	26	4.2
750	29	2,497	-3.8	-10.8	26	7.8
700	29	3,039	-6.3	-15.6	27	9.2
650	29	3,616	-9.1	-20.5	27	10.5
600	29	4,231	-12.8	-24.0	27	12.1
550	29	4,890	-16.7	-27.5	27	13.6
500	29	5,601	-20.7	-30.4	27	16.7
450	29	6,373	-25.4	-34.6	27	18.9
400	29	7,217	-31.3	-40.0	27	20.5
350	29	8,154	-37.7	-42.8	28	21.8
300	29	9,198	-44.4		29	24.0
250	29	10,401	-51.2		29	25.7
200	29	11,832	-56.7		28	25.9
175	29	12,676	-58.4		28	24.1
150	29	13,643	-58.9		28	22.7
125	29	14,784	-60.2		28	21.4
100	28	16,174	-61.7		28	17.3
80	27	17,552	-61.4		28	12.5
70	26	18,378	-61.0		28	10.2
60	26	19,335	-61.5		28	9.4
50	25	20,463	-60.5		30	7.6
40	23	21,848	-59.6		31	7.7
30	21	23,667	-57.5		32	7.0
25	19	24,851	-55.9		32	5.9
20	17	26,281	-54.3		31	6.9
15	14	28,201	-52.2		30	5.3
10	9	30,792	-52.3			

BOOTHVILLE, LA
1020 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C *	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	1	16.2	13.1	05	1.2
1000	30	167	16.8	11.8	10	2.5
950	30	603	14.1	8.9	13	3.6
900	30	1,058	12.5	4.5	17	3.2
850	30	1,537	11.0	-1.5	21	3.4
800	30	2,042	9.3	-4.3	24	4.2
750	30	2,575	7.1	-5.9	25	5.9
700	30	3,140	4.7	-10.1	26	7.1
650	30	3,740	1.6	-14.5	26	7.8
600	30	4,381	-2.1	-19.5	26	8.8
550	30	5,067	-6.1	-23.5	26	10.2
500	30	5,806	-11.1	-28.1	26	11.5
450	30	6,607	-16.6	-32.6	26	13.0
400	29	7,479	-23.1	-38.4	25	15.5
350	29	8,446	-30.3	-44.6	25	19.6
300	28	9,524	-38.7	-48.6	25	21.9
250	28	10,752	-47.5		25	24.2
200	27	12,191	-57.1		26	27.0
175	27	13,027	-61.5		26	25.6
150	27	13,971	-66.4		26	26.3
125	27	15,068	-69.0		26	21.8
100	27	16,389	-72.5		26	15.7
80	26	17,703	-72.4		[illegible]	8.3
70	25	18,495	-69.7		25	4.8
60	26	19,420	-66.6		24	4.5
50	24	20,529	-62.6		25	5.5
40	24	21,916	-59.6		25	5.9
30	24	23,733	-55.3		26	6.7
25	24	24,902	-53.5		25	7.8
20	22	26,347	-50.6		26	6.4
15	21	28,245	-44.8		26	9.1
10	11	31,023	[illegible]			

● **BROWNSVILLE, TX**
1016 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C *	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	7	16.5	13.6	20	.8
1000	30	144	20.1	15.9	15	1.3
950	30	586	17.6	12.6	16	4.9
900	30	1,047	15.7	6.1	17	4.8
850	30	1,532	13.9	1.3	19	3.4
800	30	2,041	12.2	-2.5	22	3.1
750	30	2,580	9.1	-6.1	24	3.9
700	30	3,149	6.5	-9.9	27	5.1
650	30	3,753	3.1	-14.7	28	5.6
600	30	4,398	-.1	-19.2	29	5.3
550	30	5,089	-4.4	-23.0	28	7.1
500	30	5,833	-9.4	-27.9	27	8.9
450	30	6,638	-15.1	-31.9	27	11.7
400	30	7,517	-21.6	-37.2	[illegible]	14.2
350	30	8,490	-29.0	-42.6	26	15.8
300	30	9,570	-37.6	-50.6	26	18.5
250	29	10,803	-46.8		26	21.5
200	28	12,247	-57.1		26	24.4
175	28	13,081	-62.5		26	25.1
150	28	14,021	-67.3		26	23.1
125	28	15,110	-71.2		26	18.6
100	27	16,420	-74.9		26	13.0
80	26	17,716	-73.1		27	5.9
70	26	18,503	-70.7		26	4.1
60	25	19,425	-66.3		23	2.4
50	25	20,542	-62.4		26	3.0
40	25	21,933	-58.7		28	2.1
30	25	23,755	[illegible]		27	3.8
25	24	24,925	-52.3		29	5.6
20	22	26,383	-48.3		28	5.5
15	18	28,285	-43.2		27	[illegible]
10	6	30,992	-37.2			

BUFFALO, NY
992 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C *	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	218	6.7	3.7	23	2.4
1000						
950	30	571	7.1	1.8	25	6.8
900	30	1,014	4.4	-.4	26	9.4
850	30	1,478	2.7	-5.4	26	11.8
800	30	1,967	.7	-8.6	26	12.8
750	30	2,483	-1.4	-11.9	27	12.8
700	30	3,031	-4.2	-15.5	27	13.8
650	30	3,612	-7.0	-19.4	27	15.9
600	30	4,233	-10.3	-23.2	27	17.3
550	30	4,898	-14.4	-27.2	26	18.6
500	30	5,614	-19.0	-30.9	27	20.2
450	30	6,391	-23.9	-35.4	26	[illegible]
400	30	7,240	-30.2	-40.3	26	[illegible]
350	30	8,179	-37.0	-44.5	26	[illegible]
300	30	9,227	-44.3		27	25.9
250	30	10,428	-52.1		27	28.8
200	30	11,855	-56.8		27	[illegible]
175	30	12,698	-58.0		27	26.8
150	30	13,667	-59.4		27	[illegible]
125	30	14,804	-61.2		27	21.7
100	30	16,182	-62.9		27	18.7
80	29	17,553	-62.7		26	14.5
70	29	18,387	-62.1		27	[illegible]
60	28	19,349	-61.0		27	[illegible]
50	28	20,486	-59.8		28	[illegible]
40	[illegible]	21,994	-59.2		28	4.9
30	24	23,721	-56.8		28	3.4
25	21	[illegible]	-55.7		28	[illegible]
20	[illegible]	[illegible]	-54.1		26	[illegible]
15	15	[illegible]	-52.1		29	[illegible]
10	8	30,846	-48.7			

CAPE HATTERAS, NC
1021 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C *	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	4	13.0	11.0	35	1.5
1000	30	177	15.7	8.4	34	1.6
950	30	611	12.9	6.2	29	1.4
900	30	1,064	10.6	[illegible]	25	2.6
850	30	1,538	8.7	-5.3	25	4.0
800	30	2,038	6.8	-7.6	25	4.7
750	30	2,566	4.6	[illegible]	26	5.7
700	30	3,120	[illegible]	-14.7	26	7.2
650	30	3,720	-1.2	[illegible]	26	8.5
600	30	4,354	-4.9	[illegible]	27	[illegible]
550	30	5,033	-8.9	[illegible]	26	12.0
500	30	[illegible]	-13.5	[illegible]	26	13.5
450	30	6,558	-19.1	[illegible]	[illegible]	15.2
400	30	7,423	-25.4	[illegible]	[illegible]	17.7
350	30	8,381	-32.5	[illegible]	[illegible]	19.8
300	30	9,447	-40.6	-51.6	[illegible]	22.6
250	30	[illegible]	-49.0		[illegible]	25.8
200	30	[illegible]	-57.0		28	29.2
175	29	[illegible]	-60.2		[illegible]	[illegible]
150	28	13,898	-63.7		28	[illegible]
125	27	15,009	-66.1		[illegible]	18.7
100	27	16,355	-67.8		[illegible]	13.9
80	26	[illegible]	-67.3		[illegible]	10.0
70	26	18,510	[illegible]		[illegible]	7.1
60	[illegible]	[illegible]	-63.5		[illegible]	4.4
50	[illegible]	[illegible]	-60.6		28	4.1
40	[illegible]	[illegible]	-58.4		28	3.4
30	[illegible]	23,798	-55.3		[illegible]	3.3
25	[illegible]	[illegible]	-54.1		28	3.5
20	[illegible]	[illegible]	-51.7		[illegible]	[illegible]
15	[illegible]	[illegible]	-48.9		[illegible]	[illegible]
10	6	[illegible]	-45.2			

RAWINSONDE DATA

Average monthly values

* CARIBOU, ME
993 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	191	-1.5	-4.3	29	1.8
1000	[illegible]	235	-7.2	-11.1		
950	30	540	-1.2	-5.2	28	4.5
900	30	971	-1.9	-8.0	28	7.1
850	30	[illegible]	-2.7	-11.5	28	9.6
800	30	[illegible]	-4.4	-14.3	28	11.4
750	30	2,412	-6.0	-15.6	28	13.2
700	30	2,950	-8.2	-17.4	28	15.8
650	30	3,523	-10.4	-17.7	28	18.0
600	30	[illegible]	-13.1	-21.3	28	19.9
550	30	4,796	-16.4	-24.1	27	21.9
500	30	5,506	-21.2	-29.6	27	23.9
450	30	6,275	-26.4	-35.7	27	26.3
400	30	7,116	-32.4	-40.7	27	28.5
350	30	8,048	-39.0	-46.2	27	30.2
300	29	9,087	-45.8		27	31.8
250	29	10,284	-52.2		27	33.3
200	29	11,719	-54.3		27	32.5
175	28	[illegible]	-55.0		27	[illegible]
150	28	13,550	-56.4		27	27.2
125	28	14,703	-57.9		27	23.1
100	27	16,105	-59.6		26	18.1
80	27	17,495	-60.5		26	14.9
70	27	18,328	-60.0		26	[illegible]
60	27	19,291	-59.8		26	10.8
50	27	[illegible]	-59.0		[illegible]	10.7
40	26	[illegible]	-59.0		26	8.9
30	[illegible]	23,648	-57.3		26	8.9
25	23	24,816	-55.8		26	10.5
20	[illegible]	26,252	-54.1		26	9.9
15	18	[illegible]	-54.8		26	15.3
10	[illegible]	30,756	-49.7			
7						

CENTREVILLE, AL
1005 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	140	8.5	5.2	17	.4
1000	27	[illegible]	9.3	2.9	14	.8
950	30	613	10.9	3.3	19	4.9
900	30	1,063	8.9	1.1	21	5.3
850	30	1,536	7.7	-4.2	23	5.6
800	30	2,034	6.4	-6.7	24	6.2
750	30	2,562	4.6	-10.1	25	7.2
700	30	3,122	2.2	-13.8	25	8.8
650	30	3,717	-1.0	-16.5	25	9.7
600	30	4,352	-4.4	-21.0	25	11.0
550	30	5,032	-8.5	-25.0	26	13.1
500	30	5,764	-13.5	-30.1	[illegible]	15.2
450	30	6,557	-19.0	-34.3	26	17.1
400	30	7,424	-25.3	-39.3	26	19.8
350	30	8,382	-32.3	-45.0	26	23.1
300	30	9,449	-40.3	-50.6	26	26.6
250	30	10,670	-48.8		25	30.3
200	30	12,109	-57.0		26	31.4
175	30	12,947	-60.8		26	27.7
150	30	13,896	-64.8		27	25.6
125	30	15,002	-67.5		27	19.9
100	29	16,336	-70.2		27	14.3
80	29	17,664	-69.3		27	9.7
70	28	18,467	-68.0		26	7.0
60	27	19,402	-66.2		26	4.6
50	27	20,519	-62.2		26	5.7
40	27	21,905	-60.1		26	5.4
30	[illegible]	23,715	-55.5		26	7.1
25	[illegible]	24,876	-53.9		26	8.7
20	23	26,320	-50.9		27	3.8
15	20	28,203	-46.5		26	12.1
10	14	30,952	-40.1		25	20.5
7	6	33,458	-35.7			

CHARLESTON, SC
1020 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	13	10.7	8.1	33	1.0
1000	30	181	14.8	8.4	36	1.1
950	30	614	13.4	4.3	27	.9
900	30	1,068	11.2	2.1	24	2.8
850	30	1,544	9.6	-3.3	25	3.9
800	30	2,046	7.9	[illegible]	25	4.0
750	30	2,576	5.5	-8.8	26	4.7
700	30	3,137	3.0	-12.2	25	6.1
650	30	3,734	.1	-15.8	25	7.6
600	30	4,372	-3.4	-19.2	25	9.0
550	30	5,054	-7.8	-23.6	26	10.8
500	30	5,788	-12.7	-28.1	26	13.1
450	30	6,584	-18.1	-33.2	26	15.6
400	30	7,453	-24.4	-36.8	26	17.9
350	30	8,415	-31.5	-43.1	26	20.0
300	30	9,485	-39.6	-48.6	26	24.3
250	30	10,709	-48.4		27	28.3
200	30	12,147	-57.5		27	30.7
175	30	12,983	-61.5		27	29.1
150	30	13,930	-65.2		27	26.2
125	30	15,034	-67.8		27	21.3
100	30	16,368	-70.5		27	15.8
80	30	17,694	-69.8		26	9.5
70	30	18,495	-67.1		26	7.7
60	30	19,430	-64.9		26	6.1
50	29	20,554	-61.8		26	5.1
40	27	21,948	-59.2		27	5.3
30	26	23,771	-55.6		27	5.9
25	25	24,937	-53.6		27	5.0
20	24	26,385	-50.5		26	5.4
15	20	28,266	-46.1		25	5.5
10	9	30,984	-42.3			

CHATHAM, MA
1017 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	16	8.4	5.0	25	1.7
1000	28	170	9.1	3.4	27	3.3
950	30	581	7.2	.7	27	6.2
900	30	1,025	4.9	-3.5	27	7.6
850	30	1,491	4.3	-7.3	27	9.6
800	30	1,983	2.9	-10.5	27	11.3
750	30	2,503	.7	-13.4	27	13.3
700	30	3,055	-1.8	-16.8	27	14.3
650	30	3,642	-4.4	-19.7	27	15.5
600	30	4,268	-7.8	-23.0	27	16.7
550	30	4,939	-12.2	-26.5	27	18.8
500	30	5,662	-16.8	-31.1	27	20.5
450	30	6,445	-22.2	-33.8	27	21.1
400	30	7,299	-28.7	-39.8	28	23.1
350	30	8,244	-35.7	-44.7	27	25.0
300	30	9,296	-43.7		27	26.1
250	30	10,498	-52.2		27	27.5
200	30	11,923	-57.2		27	29.3
175	29	12,767	-58.7		27	27.6
150	29	13,733	-60.1		27	24.3
125	29	14,863	-62.9		27	20.8
100	29	16,232	-64.4		27	16.8
80	27	17,593	-64.2		27	13.7
70	27	18,414	-62.6		27	11.3
60	27	19,367	-61.6		27	9.5
50	27	20,500	-60.1		26	8.2
40	25	21,900	-58.7		27	7.3
30	22	23,719	-56.4		27	4.9
25	21	24,890	-54.7		27	6.4
20	20	26,328	-52.9		28	4.5
15	16	28,213	-51.9		27	5.1
10	5	30,874	-47.2			

CHIHUAHUA, MEXICO
859 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	1,428	6.1	-4.3	22	1.7
1000						
950						
900						
850	30	1,513	10.3	-3.7	23	1.9
800	30	2,020	11.3	-4.6	24	3.3
750	30	2,556	8.6	-7.4	26	4.5
700	30	3,124	5.9	-11.1	26	7.5
650	30	3,727	2.9	-15.6	26	8.2
600	30	4,371	-.7	-20.3	26	9.2
550	30	5,059	-5.3	-24.4	27	9.9
500	30	5,800	-10.4	-28.7	27	11.1
450	30	6,602	-16.4	-33.5	28	10.7
400	30	7,476	-23.2	-38.2	27	13.0
350	30	8,442	-30.6	-44.0	27	15.2
300	30	9,516	-39.0	-50.0	27	18.3
250	30	10,743	-47.9		27	22.0
200	29	12,179	-57.2		27	25.3
175	29	13,015	-61.5		27	24.7
150	29	13,963	-65.0		27	21.5
125	29	15,064	-68.9		27	17.7
100	29	16,387	-71.8		27	12.9
80	28	17,699	-71.3		27	9.4
70	28	18,491	-69.7		28	5.9
60	27	19,418	-66.9		28	4.0
50	27	20,530	-62.9		26	4.1
40	27	21,911	-60.3		27	4.2
30	25	23,735	-56.1		25	4.1
25	23	24,898	-54.2		26	6.6
20	18	26,344	-50.9		26	8.2
15	14	28,232	-47.3		27	11.0

* COLD BAY, AK
1000 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	[illegible]	-.9	-2.7	34	2.2
1000	[illegible]	116	.5	-2.1	30	1.5
950	30	[illegible]	-1.8	-5.1	33	2.4
900	30	870	-4.3	-7.6	31	1.8
850	30	1,319	-7.1	-11.0	30	2.3
800	30	1,789	-9.9	-16.1	29	3.0
750	30	2,285	-12.6	-20.2	29	4.1
700	30	2,808	-15.4	-25.2	29	5.1
650	30	3,365	-18.5	-28.5	29	5.6
600	30	3,958	-22.3	-32.9	29	6.0
550	30	4,592	-26.5	-36.7	28	7.3
500	29	5,274	-30.6	-39.8	28	8.4
450	29	[illegible]	-35.6	-39.7	27	9.0
400	[illegible]	[illegible]	-40.9	-40.8	28	11.5
350	29	7,727	-45.9	-42.0	28	13.9
300	29	8,740	-50.0		27	15.9
250	29	9,930	-50.2		28	15.1
200	29	[illegible]	-50.4		28	16.5
175	[illegible]	[illegible]	-50.8		28	17.1
150	28	13,260	-51.4		28	17.2
125	27	14,433	-52.3		28	17.6
100	25	15,871	-52.5		28	17.9
80	23	17,330	-52.6		28	17.0
70	[illegible]	18,207	-52.0		28	16.9
60	18	[illegible]	-52.8		28	15.9
50	[illegible]	20,364	-52.7		28	16.6
40	15	21,837	-53.7		29	17.0
30	15	23,687	-53.5		30	19.2
25	[illegible]	24,879	-52.7		30	19.9
20	10	26,289	-53.3		31	24.0
15	7	[illegible]	-54.8			
10						

DAYTON, OH
984 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	299	6.2	3.5	[illegible]	2.2
1000						
950	30	591	7.8	2.0	23	6.9
900	30	1,035	5.8	-1.0	24	8.7
850	30	1,502	3.9	-4.7	24	[illegible]
800	30	1,994	2.2	-10.0	24	10.5
750	30	2,513	-.4	-12.8	24	11.3
700	30	3,062	-2.9	-16.1	24	11.9
650	30	3,646	-5.6	-18.0	24	13.0
600	30	4,270	-8.8	-21.8	25	14.5
550	30	4,939	-12.8	-26.7	[illegible]	16.3
500	30	5,660	-17.4	-31.0	25	17.9
450	30	6,441	-22.8	-34.3	25	20.0
400	30	7,294	-28.7	-39.3	25	22.0
350	30	8,239	-35.7	-45.4	[illegible]	23.0
300	30	9,291	-43.6	-51.1	[illegible]	25.5
250	30	10,495	-51.6		26	25.9
200	30	11,921	-57.2		26	28.9
175	29	12,760	-58.9		26	26.9
150	29	13,721	-61.2		26	[illegible]
125	28	14,847	-63.1		[illegible]	21.8
100	26	16,220	-65.2		27	16.8
80	24	[illegible]	-64.9		27	14.4
70	23	18,390	-63.0		27	11.1
60	20	19,347	-62.0		26	7.9
50	19	20,495	-60.3		27	4.6
40	18	21,905	-58.6		29	2.4
30	18	23,721	-56.6		29	2.4
25	18	24,882	-55.3		29	3.1
20	15	26,296	-54.2		29	4.9
15	15	28,152	-51.9		28	7.6
10	10	30,825	-49.0			

DEL RIO, TX
981 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	314	11.5	5.6	[illegible]	1.9
1000						
950	30	583	12.8	3.3	13	3.8
900	30	1,037	11.9	1.7	16	4.7
850	30	1,515	12.0	-2.3	20	4.8
800	30	2,021	10.6	-5.8	23	5.0
750	30	2,557	8.3	-9.8	25	6.5
700	30	3,123	5.4	-13.0	26	8.4
650	30	3,725	2.2	-16.1	26	10.0
600	30	4,367	-1.6	-19.5	27	10.5
550	30	5,054	-5.9	-23.9	27	12.1
500	30	5,793	-10.9	-28.4	27	15.1
450	30	6,594	-16.6	-32.9	27	16.0
400	30	7,467	-23.5	-38.5	27	18.1
350	30	8,432	-30.9	-44.5	27	19.9
300	30	9,505	-39.1	-50.4	27	21.6
250	30	10,731	-48.2		27	23.6
200	30	12,173	-56.7		27	26.0
175	30	13,010	-61.1		27	25.4
150	30	13,958	-65.3		27	23.4
125	30	15,059	-68.7		27	20.5
100	30	16,384	-71.6		27	15.5
80	30	17,699	-71.8		27	9.0
70	29	18,493	-69.4		27	6.1
60	27	19,426	-66.5		26	4.2
50	27	20,541	-63.0		25	4.4
40	27	21,925	-59.8		26	5.1
30	27	23,739	-56.1		25	7.6
25	26	24,906	-53.9		[illegible]	8.7
20	[illegible]	26,357	-51.3		27	9.1
15	19	28,246	-46.9		26	9.9
10	9	30,984	-42.8			

DENVER, CO
836 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	1,611	-1.1	-7.8	24	1.1
1000						
950						
900						
850						
800	30	1,971	2.8	-10.8	29	2.8
750	30	2,491	.4	-13.6	31	3.8
700	30	3,041	-2.9	-16.6	31	5.5
650	30	3,624	-6.6	-19.2	31	7.1
600	30	4,245	-10.2	-22.5	30	9.3
550	30	4,910	-14.4	-26.2	30	10.2
500	30	5,627	-18.7	-30.3	29	11.1
450	30	6,404	-24.0	-35.5	29	12.1
400	30	7,253	-30.3	-40.3	29	12.8
350	30	8,192	-37.2	-45.3	29	13.4
300	30	9,236	-44.9		29	15.2
250	30	10,438	-51.1		28	16.7
200	30	11,875	-55.6		28	18.8
175	30	12,722	-57.9		28	20.1
150	30	13,689	-60.2		27	19.2
125	29	14,824	-62.3		28	17.3
100	26	16,180	-63.8		27	15.7
80	22	17,546	-64.1		27	11.1
70	21	18,363	-64.0		27	9.0
60	20	19,313	-64.2		28	7.4
50	19	20,430	-61.7		27	7.4
40	19	21,813	-60.8		28	5.4
30	14	23,591	-58.1		28	7.2
25	11	24,792	-56.3		28	6.1
20	8	26,129	-55.5			

DODGE CITY, KS
924 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	791	1.9	-3.1	29	1.7
1000						
950						
900	30	1,003	4.9	-2.9	30	2.9
850	30	1,471	5.5	-6.5	28	5.0
800	30	1,965	3.9	-9.4	28	5.7
750	30	2,487	1.5	-12.6	29	7.0
700	30	3,040	-1.4	-15.5	29	7.5
650	30	3,628	-4.6	-18.5	29	7.7
600	30	4,254	-7.9	-22.0	29	9.2
550	30	4,925	-12.4	-25.5	29	10.0
500	30	5,646	-17.6	-29.9	28	11.3
450	30	6,427	-22.7	-35.2	28	13.4
400	30	7,280	-28.8	-40.3	28	15.3
350	30	8,225	-35.9	-45.8	28	17.1
300	30	9,277	-43.3	-51.7	27	19.2
250	30	10,485	-50.7		28	21.0
200	29	11,926	-54.8		27	21.2
175	29	12,775	-57.6		28	21.1
150	29	13,743	-59.9		28	21.5
125	28	14,871	-63.1		28	17.1
100	27	16,237	-65.7		28	14.3
80	25	17,584	-65.1		28	10.0
70	24	18,399	-65.2		28	8.7
60	24	19,340	-64.2		28	7.6
50	23	20,453	-63.1		27	6.1
40	21	21,843	-60.8		27	7.7
30	18	23,633	-59.0		27	7.4
25	17	24,774	-57.3		26	9.7
20	17	26,193	-55.2		25	12.7
15	17	28,046	-51.4		25	17.9
10	9	30,739	-46.5			

EL PASO, TX
884 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	27	1,193	4.8	-8.2	34	.7
1000						
950						
900						
850	27	1,511	9.5	-9.9	27	2.1
800	27	[illegible]	7.6	-11.5	27	4.3
750	27	2,541	4.7	-13.5	26	6.2
700	27	3,100	1.6	-16.2	26	10.1
650	27	3,694	-.7	-17.8	26	11.6
600	27	4,330	-4.1	-21.5	27	13.1
550	27	5,010	-8.3	-26.7	27	15.0
500	27	5,743	-13.1	-31.2	27	17.5
450	27	6,538	-18.4	-35.3	28	19.5
400	27	7,406	-24.6	-40.4	28	21.0
350	27	8,366	-31.9	-46.4	28	21.6
300	26	9,430	-40.2	-52.6	28	22.5
250	26	10,649	-49.7		27	25.5
200	26	12,081	-57.4		27	26.7
175	26	12,918	-60.8		27	25.4
150	26	13,870	-63.8		27	24.9
125	[illegible]	14,980	-67.2		27	20.5
100	24	16,312	-69.8		27	18.0
80	23	17,642	-69.9		27	11.8
70	[illegible]	18,440	-68.0		27	10.3
60	22	19,374	-65.6		28	6.8
50	[illegible]	20,489	-62.9		27	5.3
40	20	21,879	-60.5		27	6.7
30	19	23,695	-57.3		25	6.3
25	18	24,857	-55.3		26	8.1
20	18	26,293	-52.4		26	9.3
15	15	28,136	-49.0		26	16.0
10	7	30,854	-44.0			

ELY, NV
810 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	29	1,908	-5.1	-10.1	20	2.2
1000						
950						
900						
850						
800	26	[illegible]	-.2	-9.1	[illegible]	1.6
750	29	2,522	-.7	-11.1	28	.8
700	29	3,071	-3.3	-13.8	30	4.1
650	29	3,655	-5.7	-17.3	29	6.8
600	29	4,279	-9.0	-20.8	[illegible]	9.8
550	29	4,948	-12.9	-24.9	29	12.1
500	29	5,668	-17.8	-29.0	29	13.8
450	29	6,448	-23.1	-34.4	28	16.1
400	29	7,300	-29.2	-39.4	28	17.9
350	29	8,245	-35.4	-44.6	29	20.7
300	29	9,299	-42.8	-50.6	29	23.5
250	29	10,509	-50.4		30	25.3
200	28	11,935	-56.2		29	26.1
175	28	12,778	-58.8		29	24.2
150	28	13,741	-60.8		28	24.4
125	28	14,869	-63.3		28	21.0
100	27	16,228	-65.2		28	16.3
80	27	17,590	-64.7		29	11.1
70	27	18,407	-64.5		29	10.0
60	26	19,350	-63.3		[illegible]	8.5
50	24	20,472	-61.8		30	6.2
40	23	21,854	-61.0		31	5.8
30	19	23,693	-56.1		31	2.7
25	18	24,865	-54.9		33	2.6
20	16	26,316	-53.3		[illegible]	3.4
15	11	28,169	-52.3		29	5.3

EMPALME, MEXICO
1013 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	12	14.4	5.5	34	1.7
1000	30	117	18.9	7.5	34	2.1
950	30	560	21.2	1.5	36	2.0
900	30	1,026	19.0	-.8	26	.9
850	30	1,514	16.8	-4.0	22	2.6
800	30	2,028	14.0	-7.0	23	4.0
750	30	2,568	10.9	-10.7	24	4.3
700	30	3,139	7.2	-13.9	25	5.1
650	30	3,745	4.0	-16.6	26	5.8
600	30	4,390	-.1	-20.0	27	6.3
550	30	5,081	-4.9	-23.7	27	7.3
500	30	5,823	-10.0	-27.8	27	9.1
450	30	6,627	-15.6	-32.0	27	10.8
400	30	7,504	-22.3	-38.1	27	13.6
350	30	8,474	-29.4	-43.7	27	16.6
300	30	9,552	-38.0	-50.4	27	19.5
250	30	10,784	-47.1		27	23.5
200	30	12,229	-56.9		27	24.2
175	30	13,066	-61.1		27	23.1
150	30	14,015	-64.7		27	19.7
125	30	15,119	-68.0		27	16.3
100	29	16,447	-71.6		26	12.5
80	26	17,766	-71.1		27	8.1
70	25	18,560	-69.1		28	4.9
60	23	19,492	-66.1		27	3.4
50	23	20,609	-62.0		26	3.3
40	23	21,998	-59.4		27	4.5
30	23	23,817	-55.3		26	6.9
25	19	24,981	-53.1		26	6.9
20	18	26,435	-50.0		26	8.5
15	16	28,325	-45.2		26	13.4

* FAIRBANKS, AK
994 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	29	135	-23.4	-27.0	01	.8
1000	10	184	-14.2	-15.5		
950	29	472	-16.4	-19.3	09	1.6
900	29	880	-15.2	-18.9	11	2.8
850	29	1,313	-13.8	-18.8	12	1.9
800	29	1,773	-14.5	-20.2	12	1.1
750	29	2,261	-16.8	-22.5	14	.8
700	29	2,776	-20.0	-25.6	21	.5
650	29	3,322	-23.6	-29.8	23	1.5
600	29	3,902	-27.4	-34.6	23	2.7
550	29	4,523	-31.9	-39.7	22	3.1
500	29	5,190	-36.7	-43.6	23	3.6
450	29	5,911	-41.8	-44.5	24	4.2
400	29	6,701	-47.0		24	5.9
350	29	7,578	-52.0		25	6.6
300	29	8,566	-55.2		25	6.6
250	29	9,730	-54.2		26	7.4
200	28	11,152	-53.3		27	11.1
175	28	12,013	-53.1		27	11.3
150	27	12,995	-53.8		27	13.6
125	26	14,175	-54.0		27	13.8
100	25	15,609	-54.8		27	15.7
80	24	17,032	-56.2		27	17.2
70	24	17,879	-57.0		28	19.0
60	24	18,854	-57.3		28	20.4
50	24	20,006	-57.9		28	22.9
40	24	21,411	-58.6		28	24.7
30	23	23,233	-59.3		29	28.1
25	16	24,350	-59.7		29	30.3
20	12	25,769	-59.6		30	37.7
15	7	27,722	-59.0			

FLINT, MI
988 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	236	6.6	2.9	22	2.9
1000						
950	30	557	6.6	1.7	24	6.9
900	30	1,000	4.5	-1.1	25	10.1
850	30	1,464	2.6	-6.1	25	11.2
800	30	1,953	.6	-9.0	25	11.8
750	30	2,469	-1.6	-13.0	25	12.7
700	30	3,016	-4.1	-16.7	25	14.6
650	30	3,598	-7.1	-19.4	26	15.3
600	30	4,218	-10.3	-22.4	26	15.2
550	30	4,883	-14.4	-26.4	26	15.8
500	30	5,600	-19.0	-29.5	26	16.9
450	27	6,405	-23.2	-33.9	26	18.8
400	26	7,269	-29.1	-38.6	27	19.1
350	26	8,213	-35.9	-43.9	26	21.7
300	26	9,265	-43.5		27	22.5
250	25	10,472	-51.4		27	24.4
200	25	11,899	-57.1		27	25.7
175	25	12,742	-58.1		27	25.6
150	25	13,710	-59.9		27	22.4
125	24	14,845	-61.9		27	18.4
100	24	16,220	-63.7		27	14.1
80	22	17,592	-63.3		27	10.9
70	22	18,415	-62.2		28	8.2
60	21	19,376	-61.1		29	5.2
50	19	20,511	-59.6		31	3.9
40	17	21,909	-58.3		32	3.8
30	15	23,716	-57.1		01	2.3
25	14	24,855	-55.8		02	3.3
20	13	26,273	-53.3			
15	10	28,154	-50.9			

RAWINSONDE DATA

Average monthly values

GLASGOW, MT — [illegible] MB

Standard pressure (mb)	No. of observations	Pressure height (meters)	Temperature (°C)	Dew Point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (knots)
SFC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
900	[illegible]	[illegible]	-.3	[illegible]	[illegible]	[illegible]
850	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
800	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
750	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
700	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
650	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
600	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
550	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
500	[illegible]	5,502	[illegible]	[illegible]	[illegible]	14.2
450	[illegible]	6,263	[illegible]	[illegible]	[illegible]	[illegible]
400	[illegible]	[illegible]	[illegible]	-41.2	28	[illegible]
350	[illegible]	8,015	[illegible]	[illegible]	[illegible]	18.7
300	[illegible]	[illegible]	[illegible]		28	[illegible]
250	[illegible]	10,229	[illegible]		[illegible]	23.4
200	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
175	[illegible]	12,500	[illegible]		[illegible]	[illegible]
150	[illegible]	[illegible]	-57.7		[illegible]	[illegible]
125	[illegible]	[illegible]	-58.1		[illegible]	[illegible]
100	[illegible]	16,030	-59.2		[illegible]	16.0
80	[illegible]	[illegible]	[illegible]		[illegible]	15.0
70	[illegible]	18,273	[illegible]		[illegible]	12.9
60	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
50	[illegible]	20,371	[illegible]		[illegible]	[illegible]
40	[illegible]	21,796	[illegible]		[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
25	[illegible]	[illegible]	-57.8		[illegible]	[illegible]
20	[illegible]	26,231	[illegible]		[illegible]	[illegible]
15	[illegible]	28,127	-54.8		[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]			

GRAND JUNCTION, CO — [illegible] MB

Standard pressure (mb)	No. of observations	Pressure height (meters)	Temperature (°C)	Dew Point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (knots)
SFC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
850	[illegible]	1,543	[illegible]	[illegible]	[illegible]	[illegible]
800	[illegible]	1,996	1.3	[illegible]	[illegible]	[illegible]
750	[illegible]	2,513	-1.1	[illegible]	[illegible]	[illegible]
700	[illegible]	3,060	-4.1	[illegible]	[illegible]	[illegible]
650	[illegible]	[illegible]	-7.3	[illegible]	[illegible]	[illegible]
600	[illegible]	[illegible]	-10.5	[illegible]	[illegible]	[illegible]
550	[illegible]	[illegible]	-14.1	[illegible]	[illegible]	[illegible]
500	[illegible]	5,644	-18.6	[illegible]	[illegible]	[illegible]
450	[illegible]	6,421	-24.3	[illegible]	[illegible]	[illegible]
400	[illegible]	7,269	-30.2	[illegible]	[illegible]	[illegible]
350	[illegible]	8,209	-36.8	[illegible]	[illegible]	[illegible]
300	[illegible]	9,257	-43.8	[illegible]	[illegible]	[illegible]
250	[illegible]	10,464	-50.8		[illegible]	[illegible]
200	[illegible]	11,900	-55.5		[illegible]	24.0
175	[illegible]	12,736	-57.3		[illegible]	24.8
150	[illegible]	13,706	-59.0		[illegible]	22.5
125	[illegible]	14,843	-61.7		[illegible]	19.6
100	[illegible]	16,215	-64.6		[illegible]	16.0
80	[illegible]	17,573	-65.7		[illegible]	12.4
70	[illegible]	18,392	-64.5		[illegible]	10.8
60	[illegible]	[illegible]	-64.2		[illegible]	7.8
50	[illegible]	20,456	-62.3		[illegible]	[illegible]
40	[illegible]	21,831	-61.7		[illegible]	[illegible]
30	[illegible]	23,640	-58.2		[illegible]	[illegible]
25	[illegible]	24,803	-56.5		[illegible]	[illegible]
20	[illegible]	26,218	-55.2		[illegible]	[illegible]
15	[illegible]	27,989	-54.0			

* GREAT FALLS, MT — [illegible] MB

Standard pressure (mb)	No. of observations	Pressure height (meters)	Temperature (°C)	Dew Point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (knots)
SFC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
850	[illegible]	1,457	[illegible]	[illegible]	[illegible]	9.7
800	[illegible]	1,940	[illegible]	[illegible]	[illegible]	10.0
750	[illegible]	2,449	[illegible]	[illegible]	[illegible]	10.9
700	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13.1
650	[illegible]	3,558	[illegible]	[illegible]	[illegible]	14.2
600	[illegible]	4,167	-15.1	-24.4	[illegible]	14.7
550	[illegible]	4,819	-19.1	-28.7	[illegible]	15.2
500	[illegible]	5,522	-23.9	[illegible]	[illegible]	17.0
450	[illegible]	6,283	-29.2	-36.8	[illegible]	17.7
400	[illegible]	7,114	-35.5	-38.9	[illegible]	19.3
350	[illegible]	8,035	-41.5	-41.0	[illegible]	21.3
300	[illegible]	9,064	-47.5		[illegible]	23.8
250	[illegible]	10,256	-52.2		[illegible]	[illegible]
200	[illegible]	11,687	-55.9		[illegible]	26.1
175	[illegible]	12,533	-57.6		[illegible]	[illegible]
150	[illegible]	13,506	-57.6		[illegible]	25.3
125	[illegible]	14,656	[illegible]		[illegible]	22.2
100	[illegible]	16,065	[illegible]		[illegible]	18.0
80	[illegible]	17,445	[illegible]		[illegible]	15.7
70	[illegible]	18,263	[illegible]		[illegible]	14.6
60	[illegible]	19,223	[illegible]		[illegible]	13.7
50	[illegible]	20,360	[illegible]		[illegible]	13.8
40	[illegible]	21,796	[illegible]		[illegible]	10.7
30	[illegible]	23,649	[illegible]			
25	[illegible]	[illegible]	[illegible]			
20	[illegible]	26,374	[illegible]			

GREEN BAY, WI — [illegible] MB

Standard pressure (mb)	No. of observations	Pressure height (meters)	Temperature (°C)	Dew Point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (knots)
SFC	[illegible]	210	1.9	-.2	[illegible]	[illegible]
950	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
900	[illegible]	972	3.0	[illegible]	[illegible]	4.8
850	[illegible]	1,434	1.3	[illegible]	[illegible]	6.3
800	[illegible]	1,921	[illegible]	[illegible]	[illegible]	7.3
750	[illegible]	2,435	-3.0	-14.1	[illegible]	8.2
700	[illegible]	2,979	-5.4	-18.7	[illegible]	9.7
650	[illegible]	3,557	-8.5	-21.1	[illegible]	10.7
600	[illegible]	[illegible]	-11.8	-25.5	[illegible]	12.7
550	[illegible]	4,835	-15.8	-27.7	[illegible]	14.5
500	[illegible]	5,548	[illegible]	-33.2	[illegible]	[illegible]
450	[illegible]	6,321	-25.3	[illegible]	[illegible]	17.3
400	[illegible]	7,176	-31.0	-41.2	26	17.7
350	[illegible]	8,113	-37.9	-46.5	[illegible]	19.1
300	[illegible]	9,155	-45.6		[illegible]	[illegible]
250	[illegible]	[illegible]	-52.7		[illegible]	22.1
200	[illegible]	11,777	-56.5		[illegible]	25.0
175	[illegible]	12,622	-57.6		[illegible]	24.5
150	[illegible]	13,597	-59.3		[illegible]	23.6
125	[illegible]	14,735	-61.0		[illegible]	20.1
100	[illegible]	16,117	-62.3		[illegible]	15.8
80	[illegible]	17,494	-62.2		[illegible]	13.8
70	[illegible]	[illegible]	-62.0		[illegible]	11.7
60	[illegible]	19,273	-61.5		[illegible]	[illegible]
50	[illegible]	20,406	[illegible]		[illegible]	[illegible]
40	[illegible]	21,824	[illegible]		[illegible]	7.7
30	[illegible]	23,625	-57.9		[illegible]	[illegible]
25	[illegible]	24,802	-56.6		26	[illegible]
20	[illegible]	26,268	-54.9		[illegible]	[illegible]
15	[illegible]	28,110	-53.7		[illegible]	[illegible]
10	[illegible]	30,800	-50.6		[illegible]	[illegible]

GREENSBORO, NC — [illegible] MB

Standard pressure (mb)	No. of observations	Pressure height (meters)	Temperature (°C)	Dew Point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (knots)
SFC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
950	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.9
900	[illegible]	1,060	[illegible]	-.1	[illegible]	4.3
850	[illegible]	[illegible]	7.5	-3.2	[illegible]	[illegible]
800	[illegible]	2,031	6.0	-7.0	[illegible]	[illegible]
750	[illegible]	2,557	3.8	-11.7	[illegible]	7.8
700	[illegible]	3,115	1.1	-14.0	[illegible]	9.2
650	[illegible]	3,708	-2.0	-16.6	[illegible]	10.3
600	[illegible]	4,339	[illegible]	[illegible]	[illegible]	11.7
550	[illegible]	5,016	-9.9	[illegible]	[illegible]	13.1
500	[illegible]	5,744	-14.7	-29.1	[illegible]	15.2
450	[illegible]	6,534	-20.1	-33.5	[illegible]	[illegible]
400	[illegible]	7,396	-26.4	[illegible]	[illegible]	19.6
350	[illegible]	8,350	[illegible]	-44.7	[illegible]	21.3
300	[illegible]	9,411	-41.3	[illegible]	[illegible]	23.4
250	[illegible]	10,626	-49.8		[illegible]	28.8
200	[illegible]	12,060	-57.0		[illegible]	30.1
175	[illegible]	12,899	-60.4		[illegible]	26.6
150	[illegible]	13,852	-63.6		[illegible]	24.6
125	[illegible]	14,965	-65.7		[illegible]	[illegible]
100	[illegible]	16,314	-67.7		[illegible]	[illegible]
80	[illegible]	[illegible]	-66.9		[illegible]	10.2
70	[illegible]	18,473	[illegible]		[illegible]	8.0
60	[illegible]	19,416	[illegible]		[illegible]	7.2
50	[illegible]	20,544	-60.9		[illegible]	5.7
40	[illegible]	21,939	[illegible]		[illegible]	4.5
30	[illegible]	23,762	-55.8		[illegible]	3.3
25	[illegible]	24,928	-54.2		[illegible]	4.2
20	[illegible]	26,374	-51.2		[illegible]	6.7
15	[illegible]	28,265	-47.7		[illegible]	10.4
10	[illegible]	30,981	-44.2		[illegible]	[illegible]
7	5	33,874	[illegible]			

* GUAM, MARIANA IS. — [illegible] MB

Standard pressure (mb)	No. of observations	Pressure height (meters)	Temperature (°C)	Dew Point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (knots)
SFC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
950	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6.7
900	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
850	[illegible]	1,492	[illegible]	[illegible]	[illegible]	7.0
800	[illegible]	2,010	[illegible]	[illegible]	[illegible]	[illegible]
750	[illegible]	2,556	[illegible]	[illegible]	[illegible]	5.8
700	[illegible]	3,133	[illegible]	[illegible]	[illegible]	5.1
650	[illegible]	3,746	[illegible]	[illegible]	[illegible]	[illegible]
600	[illegible]	4,399	[illegible]	[illegible]	[illegible]	4.4
550	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.4
500	[illegible]	5,853	[illegible]	[illegible]	[illegible]	[illegible]
450	[illegible]	6,673	[illegible]	[illegible]	[illegible]	[illegible]
400	[illegible]	7,570	[illegible]	[illegible]	[illegible]	[illegible]
350	[illegible]	8,565	-22.8	[illegible]	[illegible]	1.6
300	[illegible]	9,674	-31.2	[illegible]	[illegible]	2.0
250	[illegible]	10,939	-41.4		[illegible]	[illegible]
200	[illegible]	12,414	-53.6		[illegible]	[illegible]
175	[illegible]	13,259	-60.5		[illegible]	[illegible]
150	[illegible]	14,201	-68.1		[illegible]	[illegible]
125	[illegible]	15,276	-75.7		[illegible]	[illegible]
100	[illegible]	16,543	-82.2		[illegible]	11.2
80	[illegible]	[illegible]	[illegible]		[illegible]	9.4
70	[illegible]	[illegible]	[illegible]		[illegible]	7.8
60	[illegible]	19,469	[illegible]		[illegible]	5.3
50	[illegible]	20,571	[illegible]		[illegible]	1.8
40	[illegible]	[illegible]	[illegible]		[illegible]	.9
30	[illegible]	23,765	[illegible]		[illegible]	[illegible]
25	[illegible]	24,938	[illegible]		[illegible]	[illegible]
20	[illegible]	26,395	[illegible]		[illegible]	[illegible]
15	[illegible]	28,300	[illegible]		[illegible]	[illegible]
10	[illegible]	31,046	[illegible]			

HILO, HI — 1016 MB

Standard pressure (mb)	No. of observations	Pressure height (meters)	Temperature (°C)	Dew Point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (knots)
SFC	[illegible]	10	20.6	18.1	[illegible]	[illegible]
1000	[illegible]	149	21.0	17.5	[illegible]	[illegible]
950	[illegible]	593	18.1	15.3	[illegible]	[illegible]
900	[illegible]	1,054	15.1	12.7	[illegible]	[illegible]
850	[illegible]	1,537	12.0	9.6	[illegible]	[illegible]
800	[illegible]	[illegible]	11.1	1.6	[illegible]	[illegible]
750	[illegible]	2,582	9.3	-5.4	[illegible]	[illegible]
700	[illegible]	3,151	6.9	-10.5	[illegible]	[illegible]
650	[illegible]	3,757	3.7	-13.7	[illegible]	[illegible]
600	[illegible]	4,402	[illegible]	-18.0	[illegible]	[illegible]
550	[illegible]	5,093	-4.2	-22.2	[illegible]	[illegible]
500	[illegible]	5,838	-9.2	-27.1	[illegible]	[illegible]
450	[illegible]	6,644	-14.7	-31.6	[illegible]	[illegible]
400	[illegible]	7,525	-21.3	-36.8	[illegible]	[illegible]
350	[illegible]	8,498	[illegible]	-43.6	[illegible]	[illegible]
300	[illegible]	9,579	-37.3	-50.5	[illegible]	2.5
250	[illegible]	10,811	[illegible]		[illegible]	6.3
200	[illegible]	12,251	[illegible]		[illegible]	11.7
175	[illegible]	13,082	-62.9		[illegible]	11.2
150	[illegible]	14,022	-67.3		[illegible]	10.0
125	[illegible]	15,117	-70.8		[illegible]	5.8
100	[illegible]	16,427	-73.8		[illegible]	4.1
80	[illegible]	[illegible]	-73.7		[illegible]	[illegible]
70	[illegible]	18,515	-71.2		[illegible]	[illegible]
60	[illegible]	19,435	[illegible]		[illegible]	[illegible]
50	[illegible]	20,543	-64.1		[illegible]	[illegible]
40	[illegible]	21,919	-60.7		[illegible]	[illegible]
30	[illegible]	23,732	[illegible]		[illegible]	[illegible]
25	[illegible]	24,902	[illegible]		[illegible]	[illegible]
20	[illegible]	26,353	[illegible]		[illegible]	[illegible]
15	[illegible]	28,245	[illegible]		[illegible]	[illegible]
10	[illegible]	31,023	[illegible]			

HUNTINGTON, WV — 991 MB

Standard pressure (mb)	No. of observations	Pressure height (meters)	Temperature (°C)	Dew Point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (knots)
SFC	[illegible]	246	[illegible]	[illegible]	[illegible]	[illegible]
950	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
900	[illegible]	1,044	[illegible]	-.5	[illegible]	[illegible]
850	[illegible]	1,512	[illegible]	-6.3	[illegible]	8.8
800	[illegible]	2,006	[illegible]	-9.5	[illegible]	[illegible]
750	[illegible]	2,528	[illegible]	-11.8	[illegible]	10.2
700	[illegible]	3,081	[illegible]	-14.9	[illegible]	11.5
650	[illegible]	3,669	[illegible]	-17.8	[illegible]	12.7
600	[illegible]	4,296	-7.2	-22.0	[illegible]	13.7
550	[illegible]	4,970	-11.1	-26.2	[illegible]	15.4
500	[illegible]	5,695	-16.1	-29.8	[illegible]	17.1
450	[illegible]	6,481	[illegible]	[illegible]	[illegible]	18.9
400	[illegible]	7,340	[illegible]	-37.5	[illegible]	20.8
350	[illegible]	8,290	[illegible]	-43.6	[illegible]	22.2
300	[illegible]	9,348	[illegible]	-48.6	[illegible]	24.2
250	[illegible]	10,559	[illegible]		[illegible]	27.1
200	[illegible]	11,993	[illegible]		[illegible]	29.2
175	[illegible]	12,837	[illegible]		[illegible]	28.1
150	[illegible]	13,799	[illegible]		[illegible]	25.5
125	[illegible]	14,925	[illegible]		[illegible]	20.3
100	[illegible]	16,279	[illegible]		[illegible]	15.4
80	[illegible]	17,644	[illegible]		[illegible]	12.1
70	[illegible]	18,462	-63.4		[illegible]	9.5
60	[illegible]	19,411	[illegible]		[illegible]	7.3
50	[illegible]	[illegible]	[illegible]		[illegible]	6.5
40	[illegible]	21,937	-58.8		[illegible]	6.5
30	[illegible]	23,755	-55.8		[illegible]	6.3
25	[illegible]	24,928	[illegible]		[illegible]	6.5
20	[illegible]	26,376	[illegible]		[illegible]	[illegible]
15	[illegible]	28,251	[illegible]		[illegible]	[illegible]
10	[illegible]	30,931	[illegible]		[illegible]	[illegible]

* INTERNATIONAL FALLS, MN — 972 MB

Standard pressure (mb)	No. of observations	Pressure height (meters)	Temperature (°C)	Dew Point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (knots)
SFC	[illegible]	359	-3.9	-6.8	01	.3
950	[illegible]	537	-1.8	-6.3	30	[illegible]
900	[illegible]	[illegible]	-1.7	-9.8	30	3.5
850	[illegible]	1,422	-2.4	-14.8	[illegible]	5.1
800	[illegible]	1,902	-4.5	-16.2	[illegible]	6.7
750	[illegible]	2,408	-6.6	-18.6	[illegible]	7.5
700	[illegible]	2,945	-8.6	-21.6	29	9.0
650	[illegible]	3,517	-11.5	-22.7	[illegible]	10.5
600	[illegible]	4,127	-14.5	-25.9	[illegible]	12.7
550	[illegible]	4,782	-18.4	-28.9	[illegible]	14.7
500	[illegible]	5,487	-23.0	[illegible]	27	17.0
450	[illegible]	6,251	-28.2	-36.4	[illegible]	18.8
400	[illegible]	[illegible]	-34.2	-40.3	[illegible]	20.9
350	[illegible]	8,010	-40.9	[illegible]	[illegible]	21.9
300	[illegible]	9,038	-48.7		27	24.3
250	[illegible]	10,219	-54.6		[illegible]	26.7
200	[illegible]	11,622	-55.8		[illegible]	26.7
175	[illegible]	12,472	-55.9		[illegible]	24.7
150	[illegible]	13,450	-57.1		[illegible]	23.3
125	[illegible]	14,601	-58.1		[illegible]	21.7
100	[illegible]	16,001	[illegible]		[illegible]	17.1
80	[illegible]	17,403	-59.6		[illegible]	16.6
70	[illegible]	18,239	-60.3		[illegible]	14.1
60	[illegible]	19,201	-60.2		[illegible]	12.3
50	[illegible]	20,338	-59.8		[illegible]	10.8
40	[illegible]	21,751	-59.4		[illegible]	10.5
30	[illegible]	23,580	-58.2		[illegible]	9.6
25	[illegible]	24,720	[illegible]		[illegible]	[illegible]
20	[illegible]	26,183	-56.7		[illegible]	8.3
15	[illegible]	28,036	-55.4		[illegible]	11.1
10	[illegible]	30,619	-54.3		26	15.6
7	[illegible]	32,865	-51.7		26	25.4
5	[illegible]	35,133	-48.3			
4	[illegible]	36,595	-48.9			

* ISLE DEL CISNE — 1012 MB

Standard pressure (mb)	No. of observations	Pressure height (meters)	Temperature (°C)	Dew Point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (knots)
SFC	[illegible]	[illegible]	25.1	[illegible]	[illegible]	[illegible]
1000	[illegible]	[illegible]	25.0	[illegible]	[illegible]	[illegible]
950	[illegible]	561	21.8	[illegible]	[illegible]	[illegible]
900	[illegible]	1,029	18.8	[illegible]	[illegible]	6.0
850	[illegible]	1,519	15.9	11.1	[illegible]	5.5
800	[illegible]	2,033	13.2	[illegible]	[illegible]	4.9
750	[illegible]	2,574	10.7	4.2	[illegible]	[illegible]
700	[illegible]	3,147	8.0	[illegible]	[illegible]	[illegible]
650	[illegible]	3,756	[illegible]	[illegible]	[illegible]	[illegible]
600	[illegible]	4,407	1.8	[illegible]	[illegible]	[illegible]
550	[illegible]	5,103	-2.2	[illegible]	[illegible]	[illegible]
500	[illegible]	5,855	[illegible]	[illegible]	[illegible]	2.3
450	[illegible]	6,670	[illegible]	[illegible]	[illegible]	1.4
400	[illegible]	7,563	-17.6	-30.9	[illegible]	1.4
350	[illegible]	8,551	[illegible]	-36.4	[illegible]	2.8
300	[illegible]	9,651	[illegible]	[illegible]	[illegible]	5.0
250	[illegible]	10,904	[illegible]		[illegible]	7.7
200	[illegible]	12,365	-55.6		[illegible]	10.7
175	[illegible]	13,204	-62.0		[illegible]	[illegible]
150	[illegible]	14,143	[illegible]		[illegible]	11.7
125	[illegible]	15,222	[illegible]		[illegible]	7.3
100	[illegible]	16,508	[illegible]		[illegible]	1.1
80	[illegible]	17,778	-77.1		[illegible]	2.0
70	[illegible]	18,555	-71.8		[illegible]	1.6
60	[illegible]	19,476	[illegible]		[illegible]	1.3
50	[illegible]	20,588	[illegible]		[illegible]	1.9
40	[illegible]	21,980	-58.4		[illegible]	.2
30	[illegible]	23,809	-54.0		[illegible]	1.4
25	[illegible]	24,986	-51.7		[illegible]	1.2
20	[illegible]	26,443	-48.3		[illegible]	1.1
15	[illegible]	28,354	-44.6		[illegible]	2.6
10	[illegible]	31,077	-39.6			

JACKSON, MS — 1009 MB

Standard pressure (mb)	No. of observations	Pressure height (meters)	Temperature (°C)	Dew Point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (knots)
SFC	[illegible]	[illegible]	10.0	8.5	[illegible]	[illegible]
1000	[illegible]	172	11.1	7.0	[illegible]	[illegible]
950	[illegible]	602	10.6	4.5	[illegible]	[illegible]
900	[illegible]	1,052	[illegible]	.9	[illegible]	[illegible]
850	[illegible]	1,525	8.4	-3.2	[illegible]	[illegible]
800	[illegible]	2,026	7.2	-5.6	[illegible]	[illegible]
750	[illegible]	2,555	4.9	-8.9	[illegible]	[illegible]
700	[illegible]	3,115	2.3	-12.9	[illegible]	[illegible]
650	[illegible]	3,710	-.7	-16.2	[illegible]	[illegible]
600	[illegible]	4,346	-3.9	-19.5	[illegible]	[illegible]
550	[illegible]	5,027	-8.4	-23.4	[illegible]	[illegible]
500	[illegible]	5,760	-13.0	-30.3	[illegible]	[illegible]
450	[illegible]	6,555	-18.7	-35.0	[illegible]	[illegible]
400	[illegible]	7,421	-25.1	-39.5	[illegible]	[illegible]
350	[illegible]	[illegible]	-32.6	-45.6	[illegible]	[illegible]
300	[illegible]	9,446	-40.3	-51.9	[illegible]	[illegible]
250	[illegible]	10,670	-48.5		[illegible]	27.0
200	[illegible]	12,111	-56.5		[illegible]	[illegible]
175	[illegible]	12,950	-60.8		[illegible]	[illegible]
150	[illegible]	13,900	-64.8		[illegible]	27.2
125	[illegible]	15,004	-67.9		[illegible]	23.4
100	[illegible]	16,338	-69.8		[illegible]	17.1
80	[illegible]	[illegible]	-70.1		27	[illegible]
70	[illegible]	18,463	-68.1		[illegible]	6.6
60	[illegible]	19,394	-65.6		25	[illegible]
50	[illegible]	20,511	-62.5		[illegible]	4.9
40	26	21,899	-60.0		[illegible]	2.9
30	26	23,710	-55.6		[illegible]	6.9
25	[illegible]	24,872	[illegible]		[illegible]	[illegible]
20	[illegible]	26,310	-51.6		[illegible]	[illegible]
15	[illegible]	[illegible]	-46.9		[illegible]	10.1
10	[illegible]	30,937	-40.3		[illegible]	17.2

JOHN F. KENNEDY INT. AP NY — 1019 MB

Standard pressure (mb)	No. of observations	Pressure height (meters)	Temperature (°C)	Dew Point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (knots)
SFC	[illegible]	[illegible]	9.4	3.2	28	[illegible]
1000	[illegible]	171	[illegible]	2.5	[illegible]	[illegible]
950	[illegible]	589	7.8	.6	29	[illegible]
900	[illegible]	1,034	5.8	-1.9	[illegible]	[illegible]
850	[illegible]	1,501	5.1	[illegible]	29	8.0
800	[illegible]	1,994	3.0	[illegible]	28	10.3
750	[illegible]	2,515	.6	-12.5	28	11.5
700	[illegible]	3,066	-2.0	-15.7	[illegible]	13.3
650	[illegible]	3,652	-5.1	-19.5	27	15.0
600	[illegible]	4,277	-8.2	-21.9	28	17.1
550	[illegible]	4,948	-12.1	-24.8	[illegible]	18.0
500	[illegible]	5,670	-16.8	-29.1	28	20.2
450	[illegible]	6,456	-21.9	[illegible]	27	21.3
400	[illegible]	7,312	-28.3	-39.0	27	21.8
350	[illegible]	8,258	-35.5	[illegible]	27	23.6
300	[illegible]	9,310	-43.5	-49.7	27	25.0
250	[illegible]	10,516	-51.5		27	27.2
200	[illegible]	11,932	-56.7		28	[illegible]
175	[illegible]	12,775	-58.3		28	[illegible]
150	[illegible]	13,741	-60.5		27	[illegible]
125	[illegible]	14,878	-62.6		[illegible]	[illegible]
100	[illegible]	16,251	-64.9		[illegible]	[illegible]
80	[illegible]	17,615	-64.9		28	[illegible]
70	[illegible]	18,432	-63.1		28	[illegible]
60	[illegible]	19,386	-61.2		27	[illegible]
50	[illegible]	20,529	[illegible]		[illegible]	[illegible]
40	[illegible]	21,947	-58.3		[illegible]	[illegible]
30	[illegible]	23,777	-55.3		05	[illegible]
25	[illegible]	24,935	-54.6		04	[illegible]
20	[illegible]	26,359	-53.3		03	[illegible]
15	[illegible]	28,220	-51.0			

JOHNSTON IS., PACIFIC AREA — 1014 MB

Standard pressure (mb)	No. of observations	Pressure height (meters)	Temperature (°C)	Dew Point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (knots)
SFC	[illegible]	[illegible]	[illegible]	21.3	[illegible]	[illegible]
1000	[illegible]	121	24.3	20.2	[illegible]	7.1
950	[illegible]	569	20.6	18.2	[illegible]	7.8
900	[illegible]	1,035	17.5	14.3	[illegible]	7.6
850	[illegible]	1,522	14.6	9.6	[illegible]	6.7
800	[illegible]	2,034	12.9	2.3	[illegible]	6.0
750	[illegible]	2,574	10.7	-4.6	[illegible]	4.7
700	[illegible]	3,146	[illegible]	-9.1	[illegible]	4.5
650	[illegible]	3,753	[illegible]	-13.7	09	4.4
600	[illegible]	4,401	[illegible]	-16.3	[illegible]	4.8
550	[illegible]	5,093	-3.6	-20.0	[illegible]	4.8
500	[illegible]	5,840	-8.3	[illegible]	[illegible]	2.8
450	[illegible]	6,649	-14.1	[illegible]	[illegible]	2.0
400	[illegible]	7,532	-20.2	[illegible]	[illegible]	1.6
350	[illegible]	8,511	-27.3	[illegible]	[illegible]	4.5
300	[illegible]	9,598	[illegible]	[illegible]	[illegible]	8.7
250	[illegible]	10,839	[illegible]		[illegible]	13.8
200	[illegible]	12,291	[illegible]		[illegible]	17.7
175	[illegible]	13,130	[illegible]		[illegible]	17.8
150	[illegible]	14,078	[illegible]		[illegible]	14.7
125	[illegible]	15,168	[illegible]		[illegible]	9.0
100	[illegible]	16,469	[illegible]		[illegible]	4.4
80	[illegible]	17,759	[illegible]		[illegible]	2.0
70	[illegible]	18,540	-72.5		[illegible]	2.5
60	[illegible]	19,456	-68.4		[illegible]	2.5
50	[illegible]	20,561	-64.3		[illegible]	2.6
40	[illegible]	21,938	-60.6		[illegible]	2.6
30	[illegible]	23,752	-56.0		[illegible]	1.1
25	[illegible]	24,924	-53.2		[illegible]	1.0
20	[illegible]	26,374	-49.8		[illegible]	.9
15	[illegible]	[illegible]	[illegible]		[illegible]	.4
10	[illegible]	31,008	-41.1		[illegible]	1.1
7	[illegible]	33,395	-39.0			

KEY WEST, FL — 1017 MB

Standard pressure (mb)	No. of observations	Pressure height (meters)	Temperature (°C)	Dew Point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (knots)
SFC	[illegible]	[illegible]	21.9	19.0	[illegible]	[illegible]
1000	[illegible]	151	21.5	[illegible]	[illegible]	[illegible]
950	[illegible]	595	18.7	[illegible]	[illegible]	[illegible]
900	[illegible]	1,057	15.8	11.8	[illegible]	[illegible]
850	[illegible]	1,542	13.5	6.2	[illegible]	[illegible]
800	[illegible]	2,052	12.2	.0	[illegible]	[illegible]
750	[illegible]	2,591	9.7	-4.6	[illegible]	[illegible]
700	[illegible]	3,161	[illegible]	-9.7	[illegible]	[illegible]
650	[illegible]	3,769	[illegible]	-14.1	[illegible]	[illegible]
600	[illegible]	4,417	[illegible]	-18.1	[illegible]	[illegible]
550	[illegible]	5,111	[illegible]	-21.7	[illegible]	[illegible]
500	[illegible]	5,859	[illegible]	-25.1	[illegible]	[illegible]
450	[illegible]	6,668	[illegible]	-29.4	25	[illegible]
400	[illegible]	7,551	[illegible]	-33.8	26	6.8
350	[illegible]	8,530	[illegible]	-39.0	26	10.7
300	[illegible]	9,619	[illegible]	[illegible]	26	14.9
250	[illegible]	10,864	-45.0		26	[illegible]
200	[illegible]	12,318	-56.6		26	22.2
175	[illegible]	13,153	-62.2		[illegible]	23.3
150	[illegible]	14,092	-68.1		[illegible]	21.2
125	[illegible]	15,177	-72.0		[illegible]	[illegible]
100	[illegible]	16,479	[illegible]		[illegible]	[illegible]
80	[illegible]	17,766	[illegible]		[illegible]	[illegible]
70	[illegible]	18,547	-72.0		[illegible]	[illegible]
60	[illegible]	19,469	-66.8		[illegible]	[illegible]
50	[illegible]	20,586	-61.4		[illegible]	[illegible]
40	[illegible]	21,981	[illegible]		[illegible]	[illegible]
30	[illegible]	23,807	[illegible]		[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
20	[illegible]	[illegible]	-48.9		28	[illegible]
15	[illegible]	28,345	-45.9		26	[illegible]
10	[illegible]	31,091	-39.1			

KING SALMON, AK — 1002 MB

Standard pressure (mb)	No. of observations	Pressure height (meters)	Temperature (°C)	Dew Point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (knots)
SFC	[illegible]	[illegible]	[illegible]	-15.1	[illegible]	2.2
1000	[illegible]	101	-7.6	-10.5	[illegible]	2.0
950	[illegible]	[illegible]	-7.4	-12.5	[illegible]	5.9
900	[illegible]	851	-9.0	[illegible]	[illegible]	5.5
850	[illegible]	1,292	-10.2	-16.0	[illegible]	4.2
800	29	1,758	-11.6	-19.6	[illegible]	2.5
750	29	2,251	-14.2	[illegible]	[illegible]	1.6
700	29	2,771	-17.1	[illegible]	[illegible]	1.7
650	[illegible]	[illegible]	-20.3	[illegible]	[illegible]	2.9
600	[illegible]	3,912	-24.0	-32.3	[illegible]	[illegible]
550	[illegible]	4,542	-28.1	-36.0	[illegible]	5.0
500	[illegible]	5,220	-32.9	-40.4	[illegible]	6.6
450	[illegible]	5,955	[illegible]	-41.4	[illegible]	8.8
400	[illegible]	6,760	[illegible]	-42.2	[illegible]	10.4
350	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.8
300	[illegible]	8,661	-51.5		[illegible]	14.3
250	[illegible]	9,840	[illegible]		[illegible]	16.1
200	[illegible]	11,292	[illegible]		[illegible]	[illegible]
175	[illegible]	12,161	[illegible]		[illegible]	14.9
150	[illegible]	13,162	-51.8		[illegible]	15.5
125	[illegible]	14,343	-52.4		[illegible]	16.6
100	[illegible]	15,784	-52.6		[illegible]	16.9
80	[illegible]	17,223	-53.3		[illegible]	18.6
70	[illegible]	18,082	-54.1		[illegible]	18.4
60	[illegible]	19,070	-54.4		[illegible]	21.0
50	[illegible]	20,239	-54.1		[illegible]	23.2
40	[illegible]	21,684	-54.0		[illegible]	25.3
30	[illegible]	23,544	-54.4		[illegible]	[illegible]
25	[illegible]	24,714	-55.2		[illegible]	[illegible]
20	[illegible]	26,128	-55.7		[illegible]	29.6
15	[illegible]	27,890	-55.9			

RAWINSONDE DATA

Average monthly values

NOVEMBER 1975

+ KOROR, CAROLINE IS. 1005 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	30	28.1	24.3	01	1.3
1000	30	76	27.0	23.5	01	1.5
950	30	529	23.7	21.3	01	2.7
900	30	1,002	20.7	17.3	01	2.9
850	30	1,494	17.7	13.0	36	2.7
800	30	2,012	15.2	9.8	35	1.9
750	30	2,558	12.6	5.9	02	1.6
700	30	3,134	9.8	1.0	05	1.4
650	30	3,747	6.5	-3.0	06	1.9
600	30	4,400	2.9	-7.1	06	3.1
550	30	5,100	-1.2	-10.7	07	3.8
500	30	5,855	-5.1	-17.4	07	4.4
450	30	6,675	-9.9	-21.8	07	3.5
400	30	7,574	-15.5	-26.4	08	2.8
350	30	8,572	-22.3	-33.3	09	1.8
300	30	9,684	-30.4	-41.2	07	1.5
250	30	10,954	-40.7	-50.0	10	1.6
200	30	12,432	-53.2		09	3.9
175	30	13,279	-60.3		09	5.8
150	30	14,222	-68.1		08	7.5
125	29	15,296	-75.9		08	11.6
100	29	16,562	-81.5		09	14.5
80	28	17,828	-75.3		09	7.4
70	27	18,613	-69.5		02	1.4
60	27	19,542	-65.4		28	4.0
50	27	20,661	-62.1		28	6.3
40	27	22,053	-58.5		27	7.4
30	26	23,884	-53.9		27	8.0
25	26	25,061	-51.5		27	7.6
20	24	26,527	-47.9		26	7.0
15	21	28,447	-43.7		26	5.7
10						
7						

KOTZEBUE, AK 1010 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	29	5	-19.6	-25.0	09	4.2
1000	25	95	-16.6	-21.7	10	3.5
950	29	469	-14.7	-20.0	12	2.3
900	29	879	-14.2	-20.3	15	1.0
850	29	1,312	-14.9	-21.6	24	.7
800	29	1,770	-16.0	-23.9	27	1.1
750	29	2,255	-18.2	-27.0	26	2.1
700	29	2,767	-21.2	-30.0	25	2.4
650	29	3,310	-24.7	-32.4	25	2.3
600	29	3,888	-28.6	-35.9	25	2.4
550	29	4,506	-33.0	-39.8	27	2.4
500	29	5,170	-37.6	-42.7	27	3.6
450	29	5,890	-42.3	-44.0	27	3.5
400	29	6,677	-47.3	-44.0	27	5.0
350	29	7,554	-52.2		27	6.8
300	29	8,538	-56.8		27	7.3
250	29	9,691	-57.0		27	7.9
200	29	11,111	-55.1		27	9.0
175	29	11,965	-54.7		27	10.4
150	29	12,952	-54.5		27	12.7
125	29	14,119	-55.0		27	13.0
100	28	15,548	-55.7		27	15.4
80	28	16,965	-56.9		27	18.7
70	28	17,810	-57.1		27	20.4
60	27	18,768	-58.0		27	21.6
50	26	19,907	-58.6		27	23.1
40	24	21,330	-59.1		28	26.5
30	22	23,165	-58.9		28	31.3
25	18	24,391	-57.0		28	36.0
20	13	25,941	-55.5		28	38.8
15						
10						
7						

KWAJALEIN, MARSHALL IS. 1009 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC						
1000						
950						
900						
850						
800						
750						
700						
650						
600						
550						
500						
450						
400						
350						
300						
250						
200						
175						
150						
125						
100						
80						
70						
60						
50						
40						
30						
25						
20						
15						
10						
7						

LAKE CHARLES, LA 1019 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	5	11.7	9.9	06	1.3
1000	30	162	14.4	9.7	08	1.7
950	30	595	13.5	6.1	17	2.5
900	30	1,050	12.0	1.7	21	3.5
850	30	1,528	10.6	-1.6	24	4.1
800	30	2,032	8.5	-5.0	24	5.0
750	30	2,563	6.2	-9.3	24	6.2
700	30	3,126	4.1	-13.0	25	7.6
650	30	3,726	1.2	-17.0	25	8.9
600	30	4,365	-2.5	-19.7	26	10.6
550	30	5,050	-7.0	-24.1	26	11.7
500	30	5,787	-11.8	-28.9	26	13.2
450	29	6,582	-17.6	-33.5	26	15.4
400	29	7,453	-23.7	-39.6	26	17.8
350	29	8,417	-31.1	-45.5	26	20.3
300	29	9,489	-39.2	-51.4	26	23.0
250	29	10,715	-48.1		26	25.5
200	29	12,157	-56.6		26	27.8
175	29	12,996	-60.6		26	29.6
150	29	13,947	-64.5		26	25.9
125	28	15,057	-68.6		26	21.5
100	28	16,384	-71.3		26	15.6
80	28	17,702	-70.5		27	7.9
70	28	18,499	-68.2		26	5.2
60	28	19,432	-65.2		25	4.0
50	28	20,552	-61.7		25	4.5
40	27	21,945	-59.0		26	4.1
30	26	23,767	-55.4		27	5.3
25	25	24,937	-52.7		26	6.3
20	23	26,392	-49.4		27	7.6
15	21	28,306	-44.9		27	9.7
10	8	31,056	-40.1			
7						

LANDER, WY 828 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	1,697	-5.3	-12.6	21	.3
1000						
950						
900						
850						
800	30	1,973	-.9	-13.1	22	.6
750	30	2,487	-2.3	-15.2	29	1.8
700	30	3,032	-5.1	-17.7	29	5.3
650	30	3,611	-8.6	-20.1	29	8.7
600	30	4,227	-12.1	-23.1	29	11.2
550	30	4,888	-16.2	-27.1	29	11.9
500	30	5,598	-21.0	-31.2	28	13.3
450	30	6,369	-26.3	-36.7	28	14.9
400	30	7,210	-32.5	-40.1	28	15.6
350	30	8,141	-39.0	-44.4	28	18.1
300	30	9,181	-45.3		28	20.4
250	30	10,379	-52.1		29	21.3
200	30	11,808	-56.4		28	22.6
175	30	12,653	-58.1		28	21.6
150	30	13,620	-59.5		28	22.4
125	30	14,759	-60.5		28	20.2
100	30	16,142	-62.8		27	16.5
80	30	17,515	-62.7		27	14.5
70	30	18,339	-62.4		27	12.5
60	30	19,291	-62.4		28	10.4
50	27	20,447	-60.9		27	7.0
40	24	21,854	-58.5		26	4.8
30	22	23,660	-57.7		30	4.9
25	21	24,811	-56.7		30	5.2
20	18	26,244	-54.9		32	3.6
15	11	28,132	-53.7			
10						
7						

* LIHUE KAUAI, HI 1013 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	36	23.2	19.9	07	3.4
1000	30	150	22.3	18.6	08	3.9
950	30	595	18.9	16.6	09	4.9
900	30	1,058	15.8	13.4	10	5.1
850	30	1,542	12.9	9.7	10	5.2
800	30	2,051	11.6	2.1	11	5.3
750	30	2,589	9.5	-4.8	11	4.3
700	30	3,160	7.6	-11.7	12	3.7
650	30	3,767	4.5	-15.2	12	3.2
600	30	4,413	.6	-18.3	13	2.9
550	30	5,106	-4.0	-22.4	12	2.3
500	30	5,851	-9.1	-27.5	13	1.8
450	30	6,657	-14.8	-31.4	13	1.7
400	30	7,537	-21.7	-37.9	15	1.3
350	30	8,508	-29.3	-42.8	20	1.2
300	30	9,586	-38.3	-49.2	25	1.6
250	30	10,814	-47.9		27	4.2
200	30	12,252	-58.3		26	6.7
175	30	13,084	-62.2		27	6.9
150	30	14,027	-66.5		26	5.8
125	29	15,120	-70.0		27	5.5
100	28	16,440	-73.1		28	2.2
80	27	17,744	-72.4		05	.9
70	27	18,533	-70.2		09	2.0
60	27	19,456	-67.3		09	3.3
50	27	20,565	-64.0		10	4.5
40	26	21,944	-60.2		09	4.3
30	21	23,766	-56.0		08	2.7
25	21	24,933	-53.4		06	2.6
20	21	26,379	-50.2		09	1.7
15	20	28,278	-46.4		22	3.2
10	11	30,986	-40.1		26	7.2

LITTLE ROCK, AR 1011 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	79	6.9	4.2	23	1.0
1000	30	164	8.8	4.0	22	1.6
950	30	590	8.9	1.9	23	5.2
900	30	1,037	7.4	-1.0	24	6.3
850	30	1,506	6.1	-6.1	25	6.8
800	30	2,003	5.2	-10.3	25	8.3
750	30	2,528	3.3	-14.0	25	10.2
700	30	3,084	.7	-16.6	25	12.0
650	30	3,676	-2.0	-18.6	25	13.8
600	30	4,309	-5.5	-21.7	25	15.4
550	30	4,986	-9.6	-25.5	25	16.2
500	30	5,715	-14.3	-29.3	26	17.9
450	30	6,505	-20.1	-34.8	26	19.9
400	30	7,367	-26.9	-40.7	25	21.6
350	30	8,319	-33.8	-46.9	25	23.5
300	30	9,380	-41.8	-51.4	25	26.2
250	30	10,593	-49.7		25	29.0
200	30	12,030	-56.7		25	30.5
175	30	12,872	-59.3		26	28.1
150	30	13,830	-62.2		26	26.0
125	30	14,948	-65.4		26	23.0
100	29	16,300	-67.1		26	16.3
80	29	17,642	-68.0		27	11.4
70	27	18,449	-66.4		27	8.2
60	27	19,387	-64.6		26	6.3
50	26	20,511	-61.7		25	5.7
40	26	21,901	-59.7		26	4.4
30	24	23,724	-56.9		27	3.6
25	23	24,897	-55.2		28	3.5
20	21	26,321	-52.9		27	5.0
15	20	28,191	-49.4		27	7.1
10	14	30,881	-44.0		27	9.2

LONGVIEW, TX 1006 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	124	8.8	6.2	17	.7
1000	26	182	9.9	4.5	19	.7
950	30	600	10.9	2.7	22	3.6
900	30	1,051	10.1	-1.0	24	4.9
850	30	1,525	8.9	-4.4	25	6.8
800	30	2,026	7.1	-7.2	25	7.2
750	30	2,555	5.1	-10.8	25	9.1
700	30	3,116	2.5	-13.7	25	10.6
650	30	3,712	-.3	-16.9	25	12.0
600	30	4,348	-3.7	-20.7	25	13.5
550	30	5,030	-8.0	-24.0	26	14.6
500	30	5,763	-13.1	-29.6	26	16.4
450	30	6,557	-18.8	-35.1	26	18.2
400	30	7,423	-25.4	-40.3	25	20.5
350	30	8,381	-32.6	-46.4	26	23.1
300	30	9,447	-40.5	-51.4	26	26.4
250	30	10,666	-49.1		26	28.8
200	30	12,104	-57.0		26	26.8
175	30	12,943	-60.3		26	27.6
150	30	13,896	-63.7		26	22.0
125	30	15,006	-66.9		26	21.2
100	30	16,345	-69.2		27	15.0
80	29	17,682	-69.6		27	10.1
70	29	18,481	-67.8		26	6.9
60	28	19,415	-65.3		25	5.0
50	28	20,534	-62.1		27	5.9
40	28	21,926	-59.0		26	2.9
30	27	23,744	-55.8		26	5.0
25	26	24,914	-53.7		26	6.8
20	23	26,366	-50.3		27	8.0
15	22	28,269	-45.9		27	8.3
10	[illegible]	30,928	-41.2			

MCGRATH, AK 997 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	103	-23.4	-25.6	35	.7
1000	12	164	-15.1	-16.1	27	.3
950	30	462	-16.5	-19.2	04	2.5
900	30	872	-12.9	-19.0	06	2.6
850	30	1,307	-13.3	-20.8	03	2.4
800	30	1,768	-14.2	-22.6	02	2.2
750	30	2,256	-16.3	-25.1	36	1.5
700	30	2,772	-19.7	-28.0	35	1.8
650	30	3,318	-23.1	-31.3	35	2.3
600	30	3,900	-26.8	-35.8	34	2.3
550	30	4,523	-30.9	-40.1	31	2.3
500	30	5,193	-35.5	-44.1	30	3.4
450	30	5,919	-40.4	-45.3	30	4.8
400	30	6,713	-45.4	-45.5	30	6.1
350	30	7,596	-50.4		29	7.1
300	30	8,589	-54.4		30	6.8
250	30	9,757	-54.1		28	7.3
200	30	11,196	-52.4		27	10.7
175	30	12,060	-52.0		27	10.8
150	30	13,058	-52.8		27	13.3
125	30	14,235	-53.0		27	13.7
100	29	15,679	-53.8		27	15.0
80	29	17,111	-54.5		27	16.7
70	29	17,965	-54.9		27	17.9
60	29	18,949	-55.5		27	19.0
50	28	20,126	-55.6		28	21.5
40	26	21,561	-56.0		28	23.9
30	24	23,426	-55.7		29	27.6
25	21	24,608	-55.9		29	29.1
20	16	26,136	-55.4		30	32.1
15	5	27,936	-51.7			
10						

+ MAJURO, MARSHALL IS. 1010 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	3	27.5	23.8	08	3.4
1000	30	90	26.2	22.4	09	4.7
950	30	542	22.9	20.7	09	6.9
900	30	1,012	20.2	17.0	09	7.6
850	30	1,505	17.5	13.4	09	7.4
800	30	2,023	15.3	9.6	09	6.9
750	30	2,569	12.9	5.7	10	6.3
700	30	3,146	9.9	3.4	09	5.5
650	30	3,760	6.4	1.4	09	5.4
600	30	4,413	2.9	-3.1	09	4.5
550	30	5,114	-.8	-6.7	08	3.9
500	30	5,870	-4.7	-13.6	09	3.1
450	30	6,693	-9.4	-19.2	06	2.8
400	30	7,594	-14.9	-26.3	36	1.5
350	30	8,594	-22.0	-33.7	32	2.6
300	30	9,707	-30.0	-41.4	29	4.6
250	30	10,978	-40.3	-51.7	27	7.4
200	29	12,458	-52.7		27	10.0
175	28	13,308	-59.3		27	10.2
150	28	14,257	-66.6		27	9.5
125	28	15,341	-73.7		27	6.2
100	28	16,624	-78.9		01	3.5
80	28	17,902	-75.0		07	4.2
70	28	18,688	-69.6		31	.7
60	28	19,617	-65.2		27	5.8
50	28	20,740	-61.0		26	10.1
40	28	22,138	-57.5		27	11.1
30	27	23,978	-52.6		27	10.4
25	26	25,162	-50.0		27	10.2
20	23	26,632	-46.8		27	8.8
15	19	28,560	-42.7		27	3.5
10						

* MEDFORD, OR 974 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	401	2.8	.5	18	.6
1000						
950	30	598	3.6	1.3	19	.5
900	30	1,037	3.9	-2.8	19	2.1
850	30	1,501	2.4	-6.0	22	4.0
800	30	1,989	.1	-10.7	25	6.1
750	30	2,504	-2.2	-13.8	27	9.1
700	30	3,049	-4.8	-15.5	27	11.3
650	30	3,629	-7.7	-19.8	27	12.8
600	30	4,248	-11.3	-24.6	28	14.4
550	30	4,911	-15.1	-28.5	28	16.6
500	30	5,626	-19.1	-30.8	28	19.2
450	30	6,403	-24.2	-35.6	28	20.9
400	30	7,252	-29.9	-40.4	29	22.4
350	30	8,193	-36.4	-45.5	29	24.7
300	30	9,242	-44.0		28	27.3
250	30	10,446	-51.5		29	28.9
200	30	11,873	-57.9		28	27.1
175	30	12,712	-59.4		28	26.2
150	30	13,673	-60.6		28	24.7
125	30	14,807	-61.7		28	23.1
100	30	16,185	-63.1		28	18.2
80	30	17,562	-62.1		28	12.6
70	29	18,391	-61.9		28	10.4
60	28	19,349	-61.1		29	9.3
50	28	20,483	-60.4		30	6.2
40	27	21,882	-59.1		31	5.0
30	26	23,691	-57.0		33	6.3
25	23	24,856	-54.7		34	3.9
20	22	26,278	-54.8		33	5.1
15	19	28,147	-52.4		33	6.4
10	8	30,815	-51.3			
7						

MERIDA, MEXICO 1014 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	11	20.0	19.4	07	1.0
1000	30	133	22.0	18.9	07	2.9
950	30	580	20.2	16.5	08	4.2
900	30	1,045	17.7	13.0	10	3.5
850	30	1,533	14.9	8.5	11	2.5
800	30	2,044	12.2	5.3	11	2.0
750	30	2,584	10.5	-1.5	11	1.6
700	30	3,156	8.0	-5.8	10	.9
650	30	3,765	4.8	-9.8	12	.4
600	30	4,414	1.5	-15.3	14	.7
550	30	5,109	-2.6	-20.1	12	.5
500	30	5,858	-7.2	-24.5	28	.4
450	30	6,672	-12.4	-29.9	24	1.7
400	30	7,561	-18.7	-34.9	24	2.9
350	30	8,545	-25.8	-41.2	24	4.6
300	30	9,640	-34.0	-48.4	25	6.7
250	27	10,889	-44.3		24	9.5
200	27	12,347	-56.0		25	11.3
175	27	13,185	-62.0		25	13.0
150	27	14,124	-67.9		25	13.2
125	27	15,208	-72.2		24	13.0
100	25	16,506	-76.4		25	9.1
80	25	17,788	-75.9		24	6.0
70	24	18,565	-72.2		22	3.9
60	24	19,482	-68.1		20	3.0
50	23	20,593	-62.5		12	1.2
40	23	21,985	-58.1		11	2.9
30	23	23,815	-54.3		07	.5
25	22	24,986	-52.8		29	1.1
20	22	26,440	-48.6		29	3.2
15	16	28,340	-44.8		29	3.0
10	5	31,011	-42.6			
7						

MIAMI, FL 1018 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	4	19.8	16.6	05	2.1
1000	30	162	20.7	15.5	07	3.8
950	30	605	18.1	13.8	08	5.5
900	30	1,066	15.3	9.8	09	4.5
850	30	1,549	13.2	5.0	10	3.7
800	30	2,058	11.4	-2.2	11	2.8
750	30	2,595	9.4	-5.5	07	2.1
700	30	3,165	7.0	-11.1	08	1.2
650	29	3,772	4.7	-15.8	11	.6
600	29	4,421	1.2	-18.7	25	.6
550	29	5,115	-3.3	-22.4	26	2.7
500	29	5,861	-8.6	-26.7	26	3.2
450	29	6,669	-14.2	-31.2	26	5.1
400	29	7,551	-20.7	-35.2	27	6.7
350	29	8,528	-27.5	-39.6	27	11.7
300	28	9,616	-35.5	-47.5	27	14.9
250	28	10,860	-45.1		27	18.1
200	28	12,314	-56.2		27	21.9
175	28	13,152	-61.9		27	23.6
150	28	14,092	-67.3		27	21.5
125	28	15,183	-71.0		27	17.1
100	27	16,492	-74.1		28	12.0
80	27	17,791	-73.6		29	7.4
70	27	18,578	-70.5		28	3.5
60	27	19,503	-66.1		29	.8
50	26	20,624	-60.8		24	.9
40	26	22,023	-57.8		25	1.1
30	26	23,853	-54.2		32	2.7
25	25	25,030	-51.1		31	3.2
20	23	26,491	-48.3		27	2.6
15	21	28,403	-44.5		25	5.2
10	6	31,144	-37.2			
7						

MIDLAND, TX 917 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	874	6.1	-.1	23	1.3
1000						
950						
900	30	1,028	9.1	-1.2	22	1.6
850	30	1,504	10.5	-6.4	25	4.2
800	30	2,007	9.0	-8.6	27	6.0
750	30	2,539	6.3	-11.4	27	8.0
700	30	3,101	3.0	-13.9	27	9.9
650	30	3,698	-.1	-16.6	27	11.4
600	30	4,335	-3.5	-20.0	27	13.5
550	30	5,017	-7.7	-25.0	27	15.4
500	30	5,751	-12.5	-29.5	27	17.2
450	29	6,549	-17.8	-33.6	27	18.7
400	29	7,419	-24.6	-38.8	27	20.4
350	29	8,379	-32.2	-44.9	27	22.1
300	29	9,445	-40.4	-50.1	27	24.6
250	29	10,664	-49.1		27	26.3
200	29	12,101	-57.2		27	26.8
175	29	12,939	-60.7		27	26.4
150	29	13,892	-63.2		28	22.9
125	29	15,002	-67.5		28	18.9
100	29	16,337	-69.7		28	14.8
80	29	17,666	-69.9		28	9.1
70	29	18,464	-67.6		27	6.3
60	29	19,397	-65.5		27	4.4
50	29	20,514	-62.6		26	3.7
40	29	21,899	-60.0		27	3.8
30	28	23,717	-56.5		25	4.2
25	27	24,876	-54.3		26	7.0
20	25	26,318	-51.6		26	8.7
15	23	28,223	-46.5		27	8.7
10	12	30,975	-42.4		29	11.7
7						

MONTERREY, MEXICO 965 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	28	423	12.2	9.1	30	1.3
1000						
950	28	584	15.1	10.1	31	.9
900	28	1,042	14.8	6.7	17	1.1
850	28	1,526	14.6	2.3	17	2.3
800	28	2,038	13.1	-2.3	23	2.1
750	28	2,578	10.7	-5.8	27	4.2
700	28	3,149	6.8	-9.5	27	6.7
650	28	3,753	2.8	-13.3	28	6.5
600	28	4,397	-.3	-19.7	28	6.3
550	28	5,087	-4.6	-23.2	27	6.4
500	28	5,830	-9.7	-26.7	27	8.2
450	28	6,635	-15.1	-31.2	26	9.8
400	28	7,514	-21.9	-36.0	26	12.7
350	28	8,485	-29.2	-41.9	26	15.6
300	28	9,565	-37.6	-49.3	26	18.4
250	28	10,798	-46.9		26	20.3
200	28	12,244	-56.8		26	20.7
175	28	13,079	-62.4		26	21.2
150	28	14,020	-66.8		26	19.3
125	28	15,112	-70.4		26	17.7
100	28	16,425	-74.1		26	12.8
80	27	17,724	-73.4		26	7.5
70	27	18,510	-71.1		25	4.8
60	27	19,430	-68.1		24	4.2
50	27	20,542	-62.9		24	5.1
40	26	21,929	-59.7		26	4.7
30	26	23,741	-56.3		25	5.3
25	26	24,907	-53.9		27	6.9
20	26	26,353	-50.5		27	7.6
15	25	28,250	-46.6		27	8.1
10	20	30,960	-39.3		26	13.0
7	6	33,341	-36.0			

RAWINSONDE DATA

Average monthly values

NOVEMBER 1975

MONETT, MO
966 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	438	5.1	2.3	18	1.9
1000						
950	30	574	6.8	2.5	21	3.5
900	30	1,019	6.5	-.9	23	8.3
850	30	1,488	4.9	-4.6	25	8.2
800	30	1,981	2.8	-7.7	26	8.1
750	30	2,502	.4	-10.5	26	9.3
700	30	3,053	-1.5	-14.4	25	11.3
650	29	3,639	-4.0	-17.9	25	12.0
600	29	4,267	-7.2	-21.1	25	12.1
550	29	4,940	-11.3	-25.6	25	14.4
500	29	5,664	-16.4	-30.2	25	16.7
450	29	6,448	-21.9	-35.5	25	18.2
400	29	7,305	-28.2	-41.4	25	19.7
350	29	8,252	-35.0	-46.5	25	21.8
300	28	9,314	-42.6	-52.7	25	24.1
250	28	10,525	-49.9		26	25.1
200	28	11,968	-54.8		26	26.3
175	28	12,816	-57.8		26	23.6
150	28	13,781	-60.7		26	22.2
125	28	14,908	-63.6		26	20.1
100	27	16,280	-66.2		26	14.6
80	27	17,629	-66.8		27	10.8
70	27	18,439	-64.9		27	8.4
60	26	19,385	-63.5		27	5.8
50	26	20,509	-61.7		26	4.9
40	26	21,898	-59.7		26	4.6
30	26	23,708	-57.2		25	5.3
25	23	24,883	-55.3		25	4.1
20	21	26,321	-52.9		26	5.5
15	17	28,176	-49.1		26	9.8
10	7	30,852	-43.7			

NASHVILLE, TN
1000 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	180	7.4	3.2	20	1.1
1000	18	207	6.5	.0	18	.9
950	30	603	9.0	1.8	22	6.0
900	30	1,050	7.0	.0	23	7.3
850	30	1,519	5.2	-3.7	24	8.2
800	30	2,013	3.8	-7.5	24	8.6
750	30	2,536	1.9	-9.9	24	8.7
700	30	3,090	-.5	-14.6	25	10.2
650	30	3,680	-3.0	-17.2	25	11.8
600	30	4,309	-6.5	-22.0	25	12.8
550	30	4,985	-10.4	-26.7	25	14.4
500	30	5,711	-15.5	-29.6	25	15.7
450	29	6,494	-21.0	-34.7	26	17.8
400	29	7,353	-27.1	-40.4	26	19.7
350	29	8,304	-34.4	-46.0	26	22.3
300	29	9,362	-42.4	-52.4	26	25.5
250	29	10,574	-49.7		26	28.5
200	29	12,011	-56.5		26	30.3
175	29	12,852	-59.7		26	30.1
150	29	13,809	-62.8		26	27.9
125	29	14,926	-65.1		26	22.7
100	29	16,279	-66.9		26	17.2
80	27	17,619	-66.5		26	11.8
70	27	18,429	-65.3		26	8.6
60	26	19,376	-63.7		25	7.4
50	25	20,502	-61.3		26	5.1
40	24	21,892	-59.2		25	5.9
30	24	23,709	-55.9		26	5.0
25	24	24,875	-54.0		25	6.1
20	24	26,317	-51.3		26	7.4
15	23	28,198	-47.4		26	11.6
10	17	30,916	-42.9			

* NOME, AK
1008 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	5	-13.6	-17.5	08	1.6
1000	24	91	-11.4	-16.0	10	1.1
950	30	463	-11.0	-16.4	13	1.7
900	30	877	-11.9	-18.1	16	1.4
850	30	1,314	-13.2	-18.8	19	.8
800	30	1,774	-15.3	-21.2	24	1.2
750	30	2,259	-18.0	-24.7	25	1.3
700	30	2,772	-20.9	-29.1	24	2.2
650	30	3,316	-24.1	-32.8	26	3.0
600	30	3,896	-27.6	-37.0	27	3.4
550	30	4,517	-31.7	-40.5	27	3.9
500	30	5,184	-36.4	-44.9	28	4.8
450	30	5,907	-41.1	-44.6	28	5.4
400	30	6,699	-46.2		28	7.1
350	30	7,579	-51.4		28	7.6
300	30	8,568	-55.6		28	8.6
250	30	9,726	-56.2		27	10.4
200	30	11,155	-53.6		27	11.4
175	30	12,015	-52.9		27	12.5
150	30	13,009	-53.4		27	13.4
125	30	14,183	-53.9		27	14.4
100	30	15,615	-54.1		27	15.4
80	30	17,042	-55.1		27	18.3
70	30	17,895	-55.2		27	19.4
60	29	18,883	-56.2		27	21.5
50	27	20,058	-55.9		27	22.8
40	27	21,478	-56.2		28	25.2
30	23	23,344	-56.0		28	30.8
25	21	24,550	-56.7		28	31.4
20	19	25,901	-57.6		29	36.8
15	12	28,020	-53.3		30	39.0
10	5	30,775	-54.1			

NORTH PLATTE, NE
917 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	847	-6.1	-10.3	33	2.0
1000						
950						
900	30	998	.6	-7.2	32	3.2
850	30	1,461	3.0	-8.4	32	5.2
800	30	1,950	1.1	-10.5	32	6.5
750	30	2,468	-.6	-13.1	31	8.1
700	30	3,016	-3.5	-15.4	31	8.3
650	30	3,599	-6.3	-17.6	30	7.4
600	30	4,221	-9.4	-20.8	29	8.4
550	30	4,889	-13.5	-24.2	28	8.4
500	30	5,607	-18.4	-27.9	28	8.6
450	30	6,385	-24.2	-33.0	27	9.8
400	30	7,232	-30.8	-39.3	27	12.3
350	30	8,170	-37.3	-44.6	28	14.7
300	30	9,216	-44.4	-51.5	27	17.1
250	30	10,418	-51.5		27	18.8
200	30	11,851	-55.5		27	21.2
175	30	12,700	-56.9		27	21.7
150	30	13,672	-58.9		27	21.2
125	29	14,805	-61.1		27	19.4
100	28	16,182	-62.4		27	16.4
80	28	17,555	-63.6		27	13.1
70	27	18,380	-63.3		27	11.0
60	27	19,330	-62.5		27	8.9
50	27	20,457	-61.7		27	8.4
40	25	21,851	-59.6		27	7.7
30	23	23,668	-58.2		27	6.2
25	22	24,815	-57.2		26	6.5
20	18	26,258	-55.2		27	8.0
15	15	28,126	-52.5		27	7.7
10	7	30,747	-51.1			

OAKLAND, CA
1020 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	6	8.5	5.1	29	.8
1000	30	170	10.9	2.9	34	1.1
950	30	597	10.0	-1.1	35	2.8
900	30	1,046	9.0	-5.7	34	3.3
850	30	1,518	7.6	-8.9	32	4.0
800	30	2,016	5.9	-11.3	30	4.7
750	30	2,542	3.8	-14.4	30	6.2
700	30	3,099	.8	-18.2	30	8.4
650	30	3,691	-2.1	-20.5	30	10.2
600	30	4,323	-5.8	-24.2	29	13.3
550	30	5,000	-10.0	-26.9	29	15.4
500	30	5,728	-14.8	-30.6	29	17.4
450	30	6,517	-20.2	-34.8	29	17.8
400	30	7,378	-26.8	-40.4	29	19.2
350	30	8,331	-33.8	-46.0	29	20.7
300	30	9,390	-42.1	-51.8	29	22.4
250	29	10,597	-50.4		29	22.9
200	29	12,025	-58.2		28	24.2
175	29	12,863	-60.0		28	23.7
150	29	13,820	-62.3		28	22.5
125	28	14,944	-64.4		28	19.0
100	28	16,299	-66.7		28	14.8
80	27	17,654	-66.1		28	10.6
70	27	18,466	-65.5		29	9.8
60	26	19,405	-63.8		30	7.5
50	24	20,530	-62.5		31	5.4
40	22	21,905	-60.9		33	5.5
30	20	23,717	-58.6		35	5.3
25	19	24,878	-56.4		34	4.5
20	17	26,291	-54.6		33	3.8
15	12	28,169	-51.3		31	3.9
10	7	30,846	-49.1			

OMAHA, NE
967 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	403	2.0	-.7	32	1.4
1000						
950	30	546	3.7	-.4	29	1.5
900	30	987	4.4	-3.5	26	3.4
850	30	1,451	3.3	-6.0	27	4.1
800	30	1,942	1.6	-9.1	27	4.7
750	30	2,460	-.9	-12.2	27	5.0
700	30	3,008	-3.1	-14.9	27	5.8
650	30	3,592	-6.0	-17.7	26	7.3
600	30	4,215	-9.5	-21.8	26	8.2
550	30	4,881	-13.6	-26.1	27	8.9
500	30	5,599	-18.4	-30.9	27	10.0
450	30	6,378	-23.8	-35.2	27	12.6
400	29	7,217	-30.6	-40.5	26	13.8
350	29	8,154	-37.5	-46.0	26	16.3
300	29	9,200	-44.4		26	18.9
250	29	10,403	-51.0		26	21.2
200	29	11,837	-55.2		27	21.7
175	29	12,688	-56.6		26	21.5
150	29	13,661	-59.0		26	19.6
125	29	14,798	-61.4		26	19.4
100	29	16,176	-62.9		27	15.5
80	28	17,550	-63.8		27	11.8
70	28	18,375	-62.8		27	10.4
60	28	19,324	-63.0		27	8.3
50	23	20,472	-61.5		27	6.6
40	22	21,856	-59.8		27	6.0
30	21	23,680	-58.2		29	3.7
25	18	24,858	-56.2		28	4.0
20	17	26,306	-54.2		28	3.4
15	15	28,144	-51.7		26	5.6
10	7	30,824	-49.7			

PAGO PAGO, AMERICAN SAMOA
* 1011 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	5	28.8	23.2	05	3.8
1000	30	102	26.6	21.4	05	3.9
950	30	553	22.7	19.1	05	4.2
900	30	1,023	19.2	16.0	05	4.5
850	30	1,513	16.1	12.4	05	4.4
800	30	2,027	13.7	8.5	05	4.2
750	30	2,570	11.2	4.0	05	3.3
700	30	3,144	8.2	-1.1	05	2.9
650	30	3,753	5.1	-4.4	07	2.7
600	30	4,402	1.6	-9.2	08	2.3
550	30	5,100	-1.5	-15.6	10	2.1
500	30	5,853	-5.6	-19.6	12	1.6
450	30	6,672	-10.7	-24.8	14	2.1
400	30	7,567	-16.9	-31.0	14	2.7
350	30	8,560	-23.6	-37.0	15	3.4
300	30	9,664	-32.4	-45.6	17	4.6
250	30	10,923	-42.6		19	6.9
200	30	12,389	-55.1		21	11.4
175	30	13,229	-61.8		21	13.5
150	30	14,168	-68.3		20	12.5
125	30	15,247	-73.8		22	9.3
100	30	16,532	-78.3		21	5.0
80	30	17,816	-73.4		12	2.9
70	29	18,607	-68.8		09	3.1
60	29	19,538	-65.7		08	4.5
50	27	20,655	-62.6		08	5.1
40	26	22,043	-59.0		07	4.6
30	26	23,869	-54.0		07	4.9
25	24	25,053	-51.2		07	4.6
20	23	26,517	-47.4		08	5.3
15	19	28,438	-42.7		09	7.6
10	7	31,174	-38.7			

* PEORIA, IL
993 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	200	4.5	1.7	21	1.8
1000	6	212	-.1	-3.0		
950	30	561	6.1	1.1	24	6.3
900	30	1,004	5.2	-2.4	25	8.2
850	30	1,470	3.2	-4.8	25	8.4
800	30	1,960	1.5	-9.1	25	8.7
750	30	2,478	-.9	-12.2	25	10.2
700	30	3,026	-3.6	-15.3	25	11.1
650	30	3,608	-6.5	-18.6	25	12.5
600	30	4,230	-9.9	-22.8	25	13.8
550	30	4,895	-14.3	-26.5	25	14.2
500	30	5,612	-18.6	-30.6	25	15.3
450	30	6,390	-23.9	-36.7	25	17.4
400	30	7,239	-30.2	-40.4	26	18.4
350	30	8,180	-36.6	-46.0	26	20.7
300	30	9,228	-44.3		26	22.9
250	30	10,430	-51.6		26	23.2
200	30	11,859	-56.5		26	24.1
175	30	12,703	-58.6		26	24.1
150	30	13,668	-60.3		26	21.2
125	30	14,798	-62.6		26	20.4
100	30	16,167	-64.8		26	15.6
80	30	17,527	-64.9		26	12.0
70	30	18,343	-64.2		27	11.6
60	30	19,289	-63.4		27	7.8
50	29	20,413	-61.7		26	8.1
40	28	21,798	-60.5		26	7.0
30	27	23,593	-58.5		27	7.5
25	24	24,739	-56.6		25	9.1
20	22	26,159	-54.2		26	10.5
15	19	28,027	-50.8		26	19.1
10	7	30,832	-50.3			

* PITTSBURGH, PA
977 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	359	6.5	1.4	24	2.3
1000						
950	30	591	7.7	2.0	25	5.2
900	30	1,036	6.1	-.2	26	8.6
850	30	1,503	4.2	-4.3	26	10.9
800	30	1,995	2.4	-7.8	26	11.9
750	30	2,515	.2	-11.0	26	12.7
700	30	3,066	-2.2	-14.6	26	13.6
650	30	3,651	-5.4	-18.3	26	14.5
600	30	4,275	-8.8	-21.7	26	15.3
550	30	4,945	-12.7	-26.1	26	16.2
500	30	5,665	-17.4	-31.0	26	18.6
450	30	6,447	-22.7	-35.0	26	19.9
400	30	7,300	-28.9	-38.9	26	21.5
350	30	8,245	-35.6	-45.0	26	23.6
300	30	9,298	-43.4	-47.6	26	24.7
250	30	10,503	-51.6		27	26.4
200	30	11,931	-56.7		27	29.1
175	30	12,774	-58.5		27	27.3
150	29	13,736	-60.4		27	23.2
125	27	14,857	-62.7		27	20.5
100	27	16,228	-63.7		27	15.0
80	25	17,589	-63.0		27	12.2
70	25	18,412	-62.5		27	10.4
60	24	19,370	-61.6		27	6.7
50	22	20,514	-60.2		27	7.8
40	20	21,917	-58.1		25	6.0
30	18	23,726	-55.7		25	6.8
25	17	24,893	-54.7		25	7.7
20	16	26,329	-51.6		25	12.0
15	9	28,164	-47.3			
10						

PONAPE, CAROLINE IS.
* 1004 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	39	27.8	23.8	09	2.5
1000	30	72	26.8	22.9	09	2.8
950	30	524	23.5	20.6	10	5.8
900	30	996	20.6	17.4	10	6.7
850	30	1,489	17.8	14.0	10	6.5
800	30	2,007	15.5	10.4	10	5.6
750	30	2,553	12.9	7.0	10	4.4
700	30	3,131	9.5	3.1	10	4.3
650	30	3,743	6.4	-.4	09	5.0
600	30	4,396	2.8	-4.1	09	4.5
550	30	5,097	-.8	-8.6	09	4.6
500	30	5,853	-4.9	-14.4	10	5.2
450	30	6,675	-9.6	-18.2	09	5.9
400	30	7,575	-15.3	-24.5	09	4.0
350	30	8,574	-22.0	-34.0	06	2.2
300	29	9,687	-30.4	-42.5	35	1.7
250	29	10,956	-40.6	-51.1	33	3.0
200	29	12,436	-53.0		32	6.7
175	29	13,284	-59.8		32	7.0
150	29	14,229	-67.6		33	5.7
125	29	15,307	-75.1		02	2.6
100	29	16,576	-82.0		07	7.8
80	29	17,837	-75.7		08	7.1
70	29	18,620	-70.3		03	1.0
60	29	19,546	-66.0		27	4.7
50	28	20,666	-61.9		27	8.2
40	28	22,059	-58.6		28	9.0
30	26	23,892	-53.3		27	10.3
25	26	25,074	-50.6		27	9.6
20	25	26,540	-47.2		27	8.0
15	21	28,453	-44.4		26	7.4
10	8	31,178	-39.1			

PORTLAND, ME
1016 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	20	3.7	.3	29	1.0
1000	29	152	5.6	-.3	29	2.0
950	30	564	5.1	-2.2	27	3.6
900	30	1,004	3.2	-4.4	27	6.3
850	30	1,466	1.7	-7.6	28	9.1
800	30	1,954	.3	-10.9	28	11.6
750	30	2,470	-1.5	-12.8	28	14.7
700	30	3,017	-4.1	-14.8	27	16.3
650	30	3,599	-6.7	-16.8	27	18.2
600	30	4,220	-10.0	-20.4	27	20.3
550	30	4,887	-13.6	-25.5	27	21.9
500	30	5,605	-18.4	-29.2	27	23.1
450	30	6,383	-23.6	-34.5	27	24.8
400	30	7,234	-29.7	-39.3	27	26.7
350	30	8,175	-36.8	-44.4	27	28.7
300	30	9,222	-44.6		26	28.1
250	30	10,422	-52.0		27	30.7
200	30	11,848	-56.8		27	31.9
175	30	12,694	-57.0		27	29.0
150	30	13,668	-58.6		27	26.6
125	30	14,807	-60.5		27	23.1
100	30	16,189	-62.4		27	20.1
80	30	17,565	-62.3		27	15.1
70	30	18,392	-61.4		26	11.7
60	30	19,351	-60.2		26	9.3
50	29	20,497	-59.3		26	9.0
40	29	21,900	-58.2		26	7.4
30	28	23,717	-56.0		26	8.0
25	27	24,879	-55.4		26	9.6
20	26	26,303	-53.7		26	9.7
15	23	28,[illegible]64	-51.4		26	13.7
10	19	30,8[illegible]3	-48.3		26	27.8
7	8	33,190	-44.6			

* QUILLAYUTE, WA
1008 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	58	6.0	4.0	17	2.0
1000	23	149	5.8	3.4	17	2.7
950	30	539	4.2	.7	19	6.9
900	30	977	1.9	-2.3	22	7.8
850	30	1,436	-1.1	-5.8	23	9.1
800	30	1,918	-3.8	-9.3	23	9.4
750	30	2,425	-6.5	-12.4	24	10.7
700	30	2,962	-9.4	-17.0	25	11.5
650	30	3,532	-12.5	-20.5	26	12.2
600	30	4,139	-16.0	-25.0	26	14.2
550	30	4,790	-19.6	-28.4	26	16.2
500	30	5,492	-23.9	-31.4	27	18.2
450	29	6,249	-28.9	-36.1	27	19.3
400	29	7,082	-34.3	-40.2	27	22.7
350	29	8,007	-40.4	-45.7	28	24.5
300	29	9,041	-46.8		28	27.7
250	29	10,233	-52.7		28	30.0
200	29	11,661	-56.2		29	27.7
175	29	12,507	-57.5		28	25.1
150	27	13,471	-57.9		28	22.9
125	24	14,606	-57.9		27	19.8
100	24	16,012	-57.9		27	18.4
80	20	17,411	-57.2		28	13.5
70	18	18,253	-57.5		28	12.5
60	16	19,215	-58.5		27	12.9
50	16	20,360	-58.7		27	12.2
40	13	21,782	-57.5		29	9.4
30	11	23,618	-56.2		30	9.3
25	11	24,775	-56.7			
20	9	26,221	-55.9			
15	5	27,995	-56.6			
10						

RAPID CITY, SD
905 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	966	-2.0	-8.9	33	3.5
1000						
950						
900	23	1,033	-.1	-9.1	33	4.5
850	30	1,466	.9	-10.3	33	6.2
800	30	1,951	-1.5	-11.8	32	6.1
750	30	2,463	-3.9	-15.1	31	6.5
700	30	3,005	-5.9	-17.8	30	8.2
650	30	3,583	-8.5	-20.7	29	8.6
600	30	4,200	-12.0	-25.1	29	9.7
550	30	4,860	-16.3	-29.0	28	10.8
500	30	5,570	-21.4	-33.4	27	12.5
450	30	6,339	-26.7	-37.9	27	14.3
400	30	7,179	-32.6	-42.3	27	17.0
350	30	8,110	-39.4	-44.2	27	17.9
300	30	9,146	-46.5		28	18.7
250	30	10,339	-52.8		28	20.9
200	30	11,767	-56.0		28	20.2
175	30	12,614	-57.5		28	21.6
150	30	13,584	-59.0		28	20.8
125	30	14,724	-60.5		27	20.1
100	30	16,110	-61.6		28	16.9
80	30	17,489	-62.4		28	13.4
70	30	18,314	-62.4		27	11.8
60	29	19,267	-61.7		27	11.2
50	26	20,397	-61.8		28	8.9
40	26	21,784	-60.3		28	9.3
30	23	23,633	-58.4		28	5.3
25	21	24,817	-56.8		28	4.6
20	18	26,258	-55.2		27	3.2
15	14	28,122	-53.8		31	2.3
10						

ST CLOUD, MN
978 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	316	-3.0	-5.1	35	.7
1000						
950	30	548	1.5	-4.1	29	1.8
900	30	984	1.1	-8.0	27	3.5
850	29	1,444	.4	-10.5	27	3.6
800	29	1,929	-1.2	-12.1	26	4.5
750	29	2,442	-3.4	-14.3	26	6.2
700	29	2,985	-5.7	-17.8	27	7.4
650	29	3,564	-8.2	-19.2	27	8.6
600	29	4,181	-11.8	-22.8	28	9.7
550	29	4,842	-16.0	-26.4	27	10.7
500	29	5,553	-20.8	-30.8	27	13.1
450	29	6,324	-26.0	-35.6	27	14.7
400	29	7,167	-32.1	-39.6	27	16.1
350	29	8,098	-39.3	-45.0	27	17.6
300	29	9,134	-47.1		27	20.9
250	29	10,322	-53.8		27	22.5
200	29	11,743	-57.0		27	23.5
175	29	12,587	-57.4		27	24.1
150	29	13,559	-58.7		27	21.8
125	28	14,715	-60.3		27	19.6
100	28	16,101	-61.5		27	16.5
80	28	17,483	-61.6		27	14.1
70	27	18,311	-61.5		27	12.3
60	26	19,260	-61.8		26	11.0
50	25	20,401	-61.2		26	10.4
40	23	21,797	-59.8		27	8.6
30	21	23,652	-58.6		28	4.6
25	18	24,875	-56.0		34	1.7
20	14	26,328	-54.3		34	2.4
15	10	28,178	-52.7			
10						

* ST PAUL ISLAND, AK
1005 MB

Standard pressure surface mb	No of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	29	10	-1.1	-4.2	04	2.3
1000	18	108	-2.2	-6.0	36	3.2
950	29	452	-3.9	-7.4	05	1.9
900	29	877	-5.7	-11.2	04	1.2
850	29	1,321	-9.3	-14.7	32	.8
800	29	1,788	-11.6	-18.0	30	1.4
750	29	2,280	-14.3	-23.7	29	1.9
700	29	2,800	-17.4	-26.6	28	2.6
650	29	3,353	-20.3	-30.0	26	3.1
600	29	3,942	-23.5	-33.4	26	4.3
550	29	4,573	-27.4	-37.1	27	5.3
500	29	5,253	-31.8	-40.5	26	5.2
450	29	5,991	-36.4	-42.1	27	6.6
400	29	6,799	-41.7	-43.1	27	7.6
350	29	7,697	-46.7	-45.2	26	9.2
300	29	8,706	-50.9		26	12.9
250	29	9,889	-51.8		27	16.7
200	28	11,346	-50.9		27	16.5
175	28	12,216	-50.6		27	16.3
150	28	13,219	-51.3		27	17.4
125	28	14,402	-51.8		28	16.4
100	28	15,850	-52.1		28	15.9
80	28	17,294	-52.1		27	16.9
70	28	18,159	-52.3		28	17.4
60	28	19,157	-52.2		27	16.5
50	27	20,338	-52.6		28	18.0
40	27	21,780	-52.4		28	18.2
30	23	23,665	-51.7		29	19.7
25	22	24,829	-51.8		29	21.5
20	20	26,306	-51.8		29	20.1
15	18	28,116	-52.2		30	23.7
10	7	30,864	-48.7			

RAWINSONDE DATA

Average monthly values

NOVEMBER 1975

SALEM, IL
997 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind	
					Direction tens of deg	Speed m p s
SFC	30	174	6.2	4.0	22	2.2
1000	12	197	6.0	1.7	15	1.1
950	30	576	7.6	1.8	24	7.5
900	30	1,021	5.8	-2.1	25	8.6
850	30	1,488	4.7	-7.1	25	8.6
800	30	1,981	3.6	-9.8	25	9.2
750	30	2,503	1.1	-12.5	24	10.0
700	30	3,055	-1.7	-15.1	25	11.0
650	30	3,642	-4.6	-17.8	25	12.2
600	30	4,268	-8.1	-21.8	25	13.4
550	30	4,938	-12.2	-25.3	25	14.7
500	30	5,661	-16.6	-29.9	25	17.1
450	30	6,445	-22.1	-34.6	26	18.7
400	30	7,300	-28.6	-40.1	26	19.8
350	29	8,243	-35.8	-44.5	26	21.4
300	29	9,295	-43.1	-49.0	25	24.7
250	29	10,503	-50.8		26	25.4
200	29	11,938	-55.8		26	25.1
175	29	12,782	-58.7		27	23.1
150	28	13,757	-60.9		27	19.8
125	27	14,884	-63.6		27	17.6
100	27	16,249	-65.0		27	14.3
80	26	17,607	-65.1		27	10.1
70	25	18,428	-64.3		27	8.0
60	25	19,375	-62.8		27	5.0
50	25	20,503	-61.3		27	3.7
40	24	21,898	-59.0		26	4.3
30	23	23,708	-56.3		25	4.4
25	22	24,864	-54.5		25	5.3
20	21	26,299	-51.6		25	9.9
15	19	28,183	-48.6		25	13.6
10	7	30,834	-45.0			
7						

SALEM, OR
1011 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind	
					Direction tens of deg	Speed m p s
SFC	30	61	5.2	3.3	19	2.6
1000	27	166	6.3	4.4	19	4.3
950	30	572	5.6	1.7	22	6.7
900	30	1,013	3.3	-1.3	23	8.2
850	30	1,475	.8	-4.8	24	9.6
800	30	1,960	-1.4	-8.3	25	10.5
750	30	2,472	-4.3	-12.9	25	11.3
700	30	3,014	-6.6	-16.0	25	12.9
650	30	3,590	-9.5	-20.9	26	13.8
600	30	4,204	-12.7	-24.1	27	15.6
550	30	4,863	-16.7	-28.4	27	16.2
500	30	5,573	-21.4	-32.6	27	17.8
450	30	6,343	-25.9	-36.6	28	20.0
400	30	7,186	-31.7	-41.3	27	22.6
350	30	8,121	-37.8	-45.9	28	23.9
300	30	9,165	-45.0		28	26.4
250	30	10,366	-51.8		27	26.5
200	30	11,792	-57.2		28	25.0
175	30	12,634	-58.4		27	23.6
150	30	13,602	-59.4		27	24.0
125	30	14,743	-60.0		28	22.6
100	30	16,132	-60.9		28	20.4
80	29	17,523	-60.2		28	14.7
70	29	18,356	-60.2		28	11.6
60	29	19,318	-60.2		28	10.7
50	27	20,460	-59.3		28	9.9
40	26	21,866	-58.2		29	8.6
30	23	23,682	-57.4		30	6.0
25	21	24,859	-55.6		30	6.1
20	19	26,326	-53.4		29	5.3
15	13	28,216	-51.3			
10						
7						

SALT LAKE CITY, UT
874 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind	
					Direction tens of deg	Speed m p s
SFC	30	1,288	.0	-4.2	14	1.1
1000						
950						
900						
850	29	1,522	2.2	-7.2	18	1.0
800	30	2,002	.5	-9.9	22	2.0
750	30	2,517	-2.3	-12.0	27	3.6
700	30	3,062	-4.9	-16.0	28	6.1
650	30	3,642	-8.0	-19.1	29	8.5
600	30	4,260	-11.5	-21.7	29	10.4
550	30	4,922	-15.4	-26.4	28	12.6
500	30	5,636	-20.1	-31.1	28	14.4
450	30	6,409	-25.4	-35.3	28	16.5
400	30	7,253	-31.4	-40.1	28	17.8
350	30	8,188	-37.9	-44.6	28	20.2
300	29	9,242	-44.3		28	21.6
250	29	10,445	-51.2		29	23.7
200	29	11,877	-56.5		29	24.0
175	29	12,722	-58.1		28	22.2
150	29	13,687	-60.6		28	22.4
125	29	14,816	-62.7		28	19.9
100	29	16,184	-64.6		28	17.5
80	28	17,546	-63.5		28	12.8
70	28	18,367	-63.8		28	9.9
60	28	19,313	-63.4		29	9.5
50	27	20,433	-62.2		29	7.6
40	26	21,826	-60.9		29	4.6
30	25	23,636	-58.0		30	5.1
25	25	24,788	-57.0		30	5.8
20	24	26,217	-55.5		30	4.3
15	19	28,109	-53.5		30	5.6
10	9	30,823	-49.9			
7						

SAN DIEGO, CA
1001 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind	
					Direction tens of deg	Speed m p s
SFC	30	124	10.6	3.4	03	.6
1000	24	144	13.2	2.6	04	1.2
950	30	566	15.2	-1.1	33	.5
900	30	1,023	14.2	-5.3	30	1.9
850	30	1,503	12.2	-7.8	30	3.0
800	30	2,009	10.4	-11.2	30	4.1
750	30	2,543	7.8	-13.4	30	5.4
700	30	3,108	4.9	-15.9	29	7.0
650	30	3,709	1.7	-19.1	29	8.7
600	30	4,349	-2.3	-22.3	29	10.2
550	30	5,034	-7.0	-25.9	29	11.3
500	30	5,769	-12.6	-30.4	29	12.5
450	30	6,565	-18.2	-35.2	29	14.6
400	30	7,433	-24.6	-40.5	28	15.2
350	30	8,394	-32.0	-46.5	28	15.7
300	30	9,462	-39.8	-51.3	28	18.0
250	30	10,686	-48.4		28	20.8
200	30	12,126	-57.1		28	22.5
175	30	12,964	-60.8		28	22.9
150	30	13,915	-63.8		28	21.1
125	30	15,025	-66.8		27	17.9
100	30	16,365	-69.4		28	13.4
80	30	17,695	-69.2		28	9.2
70	30	18,498	-67.3		29	6.5
60	30	19,430	-66.1		29	4.8
50	29	20,543	-63.9		30	3.3
40	28	21,918	-61.1		31	3.7
30	27	23,729	-56.9		30	2.3
25	27	24,888	-55.2		27	3.3
20	24	26,338	-52.4		28	6.1
15	23	28,209	-50.1		27	9.3
10	15	30,867	-45.2		27	19.2
7	6	33,265	-42.5			

SAN JUAN, P. R.
1014 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind	
					Direction tens of deg	Speed m p s
SFC	30	6	22.8	21.3	11	1.5
1000	30	124	23.3	20.6	10	2.5
950	30	572	20.9	18.1	09	5.0
900	30	1,039	18.1	14.6	09	5.5
850	30	1,527	15.2	10.3	09	4.9
800	30	2,039	12.6	5.3	09	4.1
750	30	2,579	9.6	1.6	09	3.5
700	30	3,148	6.5	-3.7	08	2.6
650	30	3,754	3.5	-7.9	07	2.4
600	30	4,400	.2	-14.9	05	2.8
550	30	5,092	-3.5	-19.3	03	2.4
500	30	5,839	-8.0	-22.4	01	3.0
450	30	6,651	-12.9	-27.5	35	4.5
400	30	7,538	-19.0	-33.8	34	6.6
350	30	8,522	-26.0	-40.0	33	8.1
300	30	9,616	-34.5	-48.5	33	11.2
250	30	10,864	-44.4		32	13.6
200	30	12,324	-55.3		32	17.8
175	30	13,165	-60.6		32	19.3
150	30	14,111	-66.7		31	15.4
125	30	15,198	-72.6		31	13.5
100	30	16,492	-76.7		32	8.1
80	29	17,776	-75.7		34	2.6
70	29	18,556	-71.8		35	1.1
60	29	19,478	-66.6		32	1.2
50	28	20,593	-62.0		35	1.6
40	27	21,989	-58.1		33	1.4
30	27	23,822	-53.5		35	.8
25	27	25,000	-51.7		02	.5
20	27	26,458	-48.6		10	1.1
15	24	28,371	-44.5		14	1.4
10	19	31,117	-39.4		09	6.4
7	5	33,591	-39.6			

*** SAULT STE MARIE, MI**
988 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind	
					Direction tens of deg	Speed m p s
SFC	30	221	1.1	-.6	08	1.5
1000						
950	30	533	1.8	-1.4	14	.7
900	30	969	.9	-4.2	24	3.2
850	30	1,428	-.3	-8.8	26	6.6
800	30	1,912	-1.7	-11.6	27	9.0
750	30	2,424	-3.8	-15.0	27	10.3
700	30	2,966	-6.8	-16.1	27	11.2
650	30	3,542	-9.6	-19.5	27	12.9
600	30	4,156	-12.8	-23.2	26	14.8
550	30	4,815	-16.8	-26.6	26	17.1
500	30	5,525	-21.1	-30.7	27	19.1
450	30	6,294	-26.4	-33.9	27	20.7
400	30	7,136	-32.4	-39.3	27	22.7
350	30	8,067	-39.2	-43.0	27	24.3
300	30	9,104	-46.5		27	25.9
250	30	10,296	-53.1		27	28.9
200	30	11,721	-56.1		27	28.7
175	30	12,569	-56.6		27	27.2
150	30	13,546	-57.7		27	22.1
125	28	14,695	-59.5		26	21.9
100	28	16,086	-60.9		27	19.0
80	24	17,475	-61.3		27	15.1
70	22	18,310	-61.2		27	13.3
60	21	19,261	-60.4		27	12.9
50	20	20,416	-59.6		27	11.4
40	20	21,813	-59.3		26	10.8
30	19	23,621	-57.7		25	11.4
25	19	24,774	-56.7		26	11.4
20	18	26,189	-54.6		26	13.8
15	16	28,053	-51.8		26	17.7
10	16	30,686	-50.9		26	21.0
7	5	33,171	-48.8			

SPOKANE, WA
932 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind	
					Direction tens of deg	Speed m p s
SFC	30	720	-.4	-2.9	18	2.7
1000						
950						
900	30	1,000	1.0	-4.6	20	5.5
850	30	1,459	-.6	-7.8	22	7.1
800	30	1,941	-3.5	-10.8	23	7.9
750	30	2,448	-6.3	-15.7	24	8.3
700	30	2,986	-8.6	-20.2	25	9.5
650	30	3,557	-11.9	-22.1	26	11.8
600	30	4,165	-16.0	-25.7	26	13.8
550	30	4,815	-20.1	-28.8	26	15.8
500	30	5,517	-24.3	-33.8	27	16.1
450	30	6,277	-29.1	-37.1	27	18.7
400	30	7,111	-34.3	-40.1	27	21.0
350	30	8,036	-40.4	-43.7	28	24.9
300	29	9,070	-46.6		28	27.5
250	29	10,264	-52.2		29	27.5
200	29	11,691	-56.6		28	29.0
175	29	12,537	-57.2		28	27.1
150	29	13,511	-57.6		28	24.2
125	29	14,662	-57.9		28	22.3
100	29	16,064	-59.3		28	18.4
80	29	17,460	-59.2		28	15.2
70	28	18,291	-59.5		28	13.9
60	28	19,258	-58.8		29	11.8
50	26	20,409	-58.9		29	10.4
40	26	21,812	-58.7		30	10.4
30	22	23,625	-57.6		30	10.8
25	22	24,777	-57.2		30	10.4
20	19	26,197	-56.7		31	10.9
15	16	28,035	-56.3		30	12.4
10	8	30,605	-55.3			
7						

TAMPA BAY, FL
1018 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind	
					Direction tens of deg	Speed m p s
SFC	30	8	15.6	14.0	05	2.1
1000	30	168	17.7	13.6	07	4.6
950	30	606	16.0	10.9	10	4.5
900	30	1,065	14.2	6.4	12	1.9
850	30	1,546	11.9	2.8	17	1.1
800	30	2,052	10.2	-2.4	19	1.1
750	30	2,587	8.3	-7.2	21	1.0
700	30	3,155	6.3	-12.5	24	2.2
650	30	3,759	3.3	-15.7	24	2.9
600	30	4,404	-.4	-18.1	25	4.8
550	30	5,093	-5.0	-22.4	25	6.9
500	30	5,835	-10.0	-26.3	25	9.3
450	30	6,640	-15.6	-30.7	25	10.9
400	30	7,517	-22.0	-36.1	26	13.0
350	30	8,488	-29.3	-41.2	26	14.6
300	30	9,568	-37.1	-48.4	26	19.7
250	30	10,805	-46.3		26	24.0
200	30	12,253	-56.9		26	27.7
175	30	13,088	-62.0		26	27.8
150	30	14,030	-66.7		27	25.0
125	30	15,122	-70.5		27	20.4
100	29	16,437	-73.5		27	12.9
80	29	17,737	-73.9		28	6.3
70	29	18,522	-70.8		27	3.7
60	29	19,446	-66.2		26	2.9
50	27	20,568	-62.0		28	3.0
40	27	21,959	-58.6		26	3.2
30	26	23,783	-55.1		28	4.9
25	25	24,948	-53.4		29	4.1
20	21	26,397	-50.0		27	5.3
15	17	28,298	-46.3		24	6.0
10	11	31,020	-40.2			
7	5	33,413	-38.0			

TOPEKA, KS
985 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind	
					Direction tens of deg	Speed m p s
SFC	30	268	5.1	2.2	22	1.1
1000						
950	30	561	6.4	.8	23	4.7
900	30	1,005	5.8	-1.9	24	7.0
850	30	1,471	3.9	-5.2	25	6.3
800	30	1,963	2.3	-7.2	25	6.1
750	30	2,483	.2	-10.6	26	7.2
700	30	3,033	-2.6	-14.3	26	8.2
650	30	3,618	-5.4	-17.5	26	9.4
600	30	4,242	-8.8	-22.6	26	10.1
550	30	4,911	-12.8	-25.5	26	11.1
500	30	5,631	-17.7	-30.3	26	13.5
450	30	6,412	-23.0	-35.3	26	15.2
400	30	7,264	-29.1	-41.0	26	15.7
350	28	8,210	-35.5	-46.7	27	14.9
300	28	9,263	-43.2	-52.2	27	17.0
250	28	10,472	-49.9		27	17.9
200	26	11,918	-54.2		27	19.2
175	26	12,769	-57.0		27	18.8
150	26	13,739	-59.5		27	18.1
125	25	14,868	-61.8		27	17.2
100	24	16,239	-63.8		28	14.4
80	21	17,591	-64.1		27	10.1
70	21	18,411	-63.0		27	7.6
60	20	19,377	-62.7		27	7.7
50	20	20,507	-60.6		28	5.6
40	19	21,909	-59.0		27	4.5
30	17	23,714	-57.1		26	5.5
25	15	24,859	-56.2		26	7.3
20	14	26,291	-53.2		25	9.6
15	13	28,146	-49.9		25	14.1
10	6	30,924	-43.0			
7						

*** TRUK, CAROLINE IS.**
1009 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind	
					Direction tens of deg	Speed m p s
SFC	30	2	27.8	24.6	14	2.1
1000	30	83	26.8	23.9	13	2.5
950	30	536	23.5	21.0	12	4.0
900	30	1,008	20.9	17.3	12	4.2
850	30	1,502	17.7	14.2	12	3.6
800	30	2,020	15.4	11.3	12	3.3
750	30	2,566	12.6	7.8	13	3.1
700	30	3,143	9.4	3.5	13	2.9
650	30	3,756	6.3	1.0	12	3.3
600	30	4,409	2.6	-2.7	11	4.3
550	30	5,108	-1.2	-6.3	11	4.0
500	30	5,864	-5.1	-11.7	10	5.1
450	30	6,686	-9.8	-17.4	11	5.2
400	30	7,586	-15.3	-25.0	10	3.9
350	30	8,585	-22.0	-31.4	11	3.1
300	30	9,697	-30.3	-39.9	12	1.4
250	30	10,967	-40.5	-47.5	24	1.7
200	30	12,448	-52.9		28	2.5
175	30	13,295	-59.9		29	3.0
150	30	14,240	-67.7		35	2.6
125	30	15,317	-75.5		05	5.5
100	30	16,585	-81.7		08	10.5
80	30	17,847	-75.7		09	8.5
70	29	18,630	-70.6		09	2.2
60	29	19,553	-67.1		28	2.9
50	29	20,667	-62.0		28	6.5
40	29	22,059	-58.4		27	9.1
30	27	23,888	-54.1		28	8.2
25	26	25,066	-51.2		27	8.5
20	24	26,526	-48.3		26	6.6
15	20	28,440	-45.4		27	3.9
10	11	31,164	-40.3			
7						

*** TUCSON, AZ**
925 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind	
					Direction tens of deg	Speed m p s
SFC	30	789	8.7	-6.1	15	2.6
1000						
950						
900	30	1,022	14.2	-6.0	15	2.6
850	30	1,503	12.3	-8.0	19	1.6
800	30	2,008	9.6	-9.9	22	2.8
750	30	2,541	6.8	-12.7	25	3.9
700	30	3,104	4.2	-15.1	27	5.3
650	30	3,704	1.1	-18.3	28	7.5
600	29	4,351	-2.3	-21.8	29	9.2
550	29	5,036	-6.4	-25.2	28	11.7
500	29	5,774	-11.7	-29.6	28	12.8
450	29	6,571	-17.8	-34.5	28	14.1
400	29	7,441	-24.5	-40.0	28	15.9
350	29	8,402	-31.9	-45.5	28	18.0
300	28	9,475	-39.9	-51.1	28	20.2
250	28	10,696	-49.1		28	23.1
200	28	12,133	-57.6		28	24.6
175	28	12,970	-60.6		28	23.2
150	28	13,922	-63.6		28	20.8
125	27	15,036	-67.2		27	18.2
100	27	16,372	-69.5		28	14.2
80	27	17,698	-70.1		28	8.9
70	27	18,496	-68.6		28	6.3
60	26	19,426	-66.9		29	4.1
50	26	20,537	-63.8		29	3.3
40	24	21,918	-60.7		29	3.2
30	21	23,750	-56.6		24	1.3
25	21	24,911	-55.1		26	3.4
20	21	26,346	-52.8		28	4.1
15	19	28,225	-49.3		28	6.0
10	12	30,921	-44.4			
7						
5						

*** VANDENBERG AFB, CA**
1006 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind	
					Direction tens of deg	Speed m p s
SFC	29	100	8.8	.8	35	2.0
1000	27	158	11.8	1.7	36	2.5
950	29	582	14.2	-1.9	36	4.8
900	29	1,038	13.1	-4.2	35	4.7
850	29	1,516	11.3	-8.5	33	4.7
800	29	2,020	9.4	-10.6	32	5.1
750	29	2,553	7.0	-12.8	31	6.7
700	29	3,116	4.0	-16.8	30	8.2
650	29	3,715	.8	-19.1	30	9.1
600	29	4,353	-3.3	-21.9	30	9.9
550	29	5,035	-7.9	-25.0	29	11.1
500	29	5,768	-13.2	-28.5	29	12.2
450	29	6,562	-18.8	-34.3	29	11.9
400	29	7,428	-25.5	-39.4	29	12.9
350	29	8,386	-32.7	-46.0	29	14.3
300	29	9,451	-40.6	-51.3	29	16.0
250	29	10,670	-49.0		28	17.1
200	29	12,108	-56.8		27	18.6
175	29	12,947	-60.2		27	19.4
150	29	13,902	-63.3		28	16.4
125	29	15,012	-66.6		27	15.6
100	28	16,361	-68.1		28	12.8
80	28	17,699	-68.0		29	9.2
70	27	18,502	-66.1		29	6.4
60	24	19,446	-65.3		30	4.5
50	24	20,560	-63.7		30	4.0
40	24	21,939	-60.9		33	4.4
30	24	23,744	-57.0		33	2.8
25	24	24,902	-55.5		30	3.4
20	24	26,335	-52.3		29	4.1
15	23	28,210	-50.3		27	6.7
10	23	30,880	-46.2		7	14.9
7	18	33,299	-41.8		27	20.3
5	6	35,521	-40.4			

VICTORIA, TX
1014 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind	
					Direction tens of deg	Speed m p s
SFC	30	33	12.5	10.4	02	1.1
1000	30	151	15.9	10.0	05	1.4
950	30	587	15.0	6.6	16	2.1
900	30	1,044	13.3	2.9	20	3.1
850	30	1,524	11.3	.4	22	3.9
800	30	2,029	9.6	-3.3	23	4.8
750	30	2,563	7.6	-8.1	25	5.6
700	30	3,128	4.4	-12.1	25	6.5
650	30	3,729	1.3	-15.9	26	7.8
600	30	4,369	-1.7	-21.0	26	9.2
550	30	5,056	-5.7	-24.7	27	11.1
500	30	5,796	-10.8	-28.8	27	12.6
450	30	6,597	-16.7	-33.0	27	15.5
400	30	7,470	-23.3	-38.6	27	17.0
350	29	8,436	-30.5	-44.7	27	19.3
300	29	9,510	-39.0	-50.8	26	21.5
250	29	10,735	-48.1		27	23.9
200	29	12,182	-57.1		26	26.0
175	27	13,025	-61.9		26	24.5
150	27	13,969	-66.1		26	23.8
125	27	15,065	-69.2		26	20.5
100	26	16,387	-73.1		27	15.0
80	22	17,698	-71.6		28	6.9
70	22	18,491	-69.7		26	3.9
60	21	19,419	-66.2		24	3.2
50	21	20,533	-62.5		25	4.3
40	21	21,921	-59.5		27	4.0
30	21	23,736	-55.8		27	5.4
25	21	24,904	-53.5		27	6.5
20	21	26,349	-50.1		28	7.3
15	19	28,257	-44.5		27	11.0
10	11	30,971	-39.3			
7						
5						

*** WAKE IS., PACIFIC AREA**
1014 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind	
					Direction tens of deg	Speed m p s
SFC	30	5	26.4	23.6	09	5.3
1000	30	129	25.7	21.6	09	6.3
950	30	579	21.9	20.0	10	8.1
900	30	1,048	19.1	15.1	10	8.1
850	30	1,538	16.1	11.4	10	7.5
800	30	2,052	13.8	7.7	10	7.3
750	30	2,595	11.2	2.7	10	6.5
700	30	3,169	8.4	-3.5	09	5.9
650	30	3,778	5.1	-8.2	09	5.6
600	30	4,427	1.7	-13.5	09	5.0
550	30	5,124	-2.0	-18.8	09	4.9
500	30	5,875	-6.7	-23.6	08	4.8
450	30	6,689	-11.9	-27.1	07	4.4
400	30	7,580	-18.3	-31.7	04	5.0
350	30	8,566	-25.5	-38.7	02	4.8
300	30	9,662	-34.3	-47.2	36	6.4
250	30	10,912	-43.9		34	7.2
200	30	12,376	-54.2		34	9.6
175	30	13,222	-59.8		35	9.7
150	30	14,171	-65.9		01	8.4
125	30	15,261	-72.3		02	6.9
100	30	16,556	-77.3		05	8.3
80	29	17,834	-77.7		07	8.4
70	28	18,602	-75.1		08	9.7
60	27	19,508	-70.6		08	9.2
50	27	20,605	-64.7		09	8.8
40	27	21,981	-60.8		09	7.2
30	25	23,791	-55.7		09	5.8
25	25	24,962	-52.6		08	5.7
20	24	26,414	-49.1		08	4.9
15	22	28,319	-45.7		05	3.8
10	19	31,045	-40.6		02	3.2
7	8	33,462	-38.1			
5						

*** WALLOPS ISLAND, VA NASA**
1021 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind	
					Direction tens of deg	Speed m p s
SFC	30	4	10.0	7.6	31	1.0
1000	30	173	12.2	4.4	29	2.2
950	30	602	10.6	1.3	28	3.1
900	30	1,051	8.7	-.8	26	4.5
850	30	1,523	7.2	-5.1	26	6.2
800	30	2,021	5.4	-7.8	26	7.5
750	30	2,546	3.0	-10.4	26	8.6
700	30	3,102	.0	-14.0	26	9.9
650	30	3,692	-3.1	-17.5	26	11.4
600	30	4,322	-6.4	-22.0	26	12.8
550	30	4,997	-10.5	-25.8	27	13.5
500	30	5,724	-15.2	-30.0	27	15.0
450	30	6,512	-20.9	-33.7	27	17.1
400	29	7,372	-27.4	-39.1	27	18.5
350	29	8,323	-34.4	-44.2	27	20.7
300	29	9,380	-42.2	-50.2	27	23.4
250	29	10,592	-50.1		27	27.2
200	29	12,026	-56.8		28	24.6
175	29	12,866	-59.6		28	22.9
150	29	13,824	-62.3		28	20.6
125	29	14,944	-64.6		28	17.7
100	29	16,301	-66.3		28	12.3
80	29	17,651	-66.2		28	10.8
70	29	18,465	-64.1		28	7.1
60	28	19,410	-62.7		27	5.3
50	28	20,541	-60.3		28	5.8
40	27	21,940	-58.9		29	4.7
30	25	23,763	-55.7		29	4.5
25	25	24,929	-53.9		29	4.0
20	23	26,373	-51.7		28	3.6
15	22	28,255	-49.6		27	6.9
10	14	30,919	-47.5			
7						
5						

RAWINSONDE DATA

Average monthly values

NOVEMBER 1975

Standard pressure surface mb	WASHINGTON DULLES INT. AP 1010 MB: No. of observations	Dynamic height meters	Temperature °C	Dew Point °C *	Resultant Wind: Direction tens of deg	Resultant Wind: Speed m p s
SFC	30	85	4.7	.9	25	.7
1000	27	184	9.1	2.9	27	1.2
950	30	596	9.0	.4	27	4.4
900	30	1,043	7.5	-2.0	27	6.7
850	30	1,513	6.5	-5.1	27	7.4
800	30	[illegible]	4.9	-9.1	27	7.6
750	30	2,543	2.3	-11.6	26	8.8
700	30	[illegible]	-.8	-13.9	26	10.6
650	30	3,675	-4.2	-17.4	26	[illegible]
600	30	[illegible]	-7.7	-21.6	26	13.5
550	30	4,914	[illegible]	-25.0	26	15.2
500	30	[illegible]	-16.3	-29.9	26	17.0
450	30	6,463	-21.8	-35.7	27	18.7
400	30	7,339	-28.1	-38.3	27	20.0
350	30	[illegible]	-34.7	-44.3	27	21.3
300	30	9,343	-42.7	-48.0	27	23.7
250	29	10,557	-50.3		27	25.7
200	29	11,990	-56.8		27	28.0
175	29	12,831	-59.6		27	25.1
150	29	13,790	-61.8		27	24.5
125	28	14,914	-64.1		27	20.1
100	28	16,275	-65.3		27	14.6
80	28	17,630	-65.6		27	11.6
70	28	18,445	-64.0		27	8.8
60	28	19,393	-62.3		26	6.5
50	28	20,513	-61.4		27	6.6
40	27	21,911	-59.4		27	6.2
30	25	23,737	-56.2		27	4.5
25	25	24,899	-54.9		27	5.8
20	24	26,335	-52.4		28	7.4
15	19	28,224	-49.4		26	5.6
10	10	30,940	-44.2			

Standard pressure surface mb	WAYCROSS, GA [illegible] MB: No. of observations	Dynamic height meters	Temperature °C	Dew Point °C *	Resultant Wind: Direction tens of deg	Resultant Wind: Speed m p s
SFC	30	44	10.6	9.4	36	.2
1000	30	175	13.9	9.6	08	.1
950	30	608	13.3	6.5	15	2.0
900	30	1,062	11.7	3.5	19	2.6
850	30	1,539	10.[illegible]	-1.5	23	4.8
800	30	2,042	8.6	-7.2	24	4.5
750	30	2,574	6.9	-7.9	24	5.3
700	30	3,138	3.9	-11.8	25	6.6
650	30	3,737	1.[illegible]	-15.2	24	7.5
600	30	4,376	-2.7	-19.9	24	9.1
550	30	5,061	-6.9	-24.1	25	11.5
500	30	5,797	-11.8	-28.9	25	13.5
450	29	6,593	-16.9	-31.8	25	16.3
400	29	7,467	-23.1	-35.5	26	18.4
350	29	8,434	-30.3	[illegible]	26	[illegible]
300	29	9,508	-38.8	-47.4	26	24.7
250	29	10,736	-47.6		26	25.9
200	29	12,180	-56.8		26	26.2
175	28	13,020	-61.4		27	[illegible]
150	28	13,966	-65.4		27	26.2
125	28	15,067	-68.5		27	[illegible]
100	28	16,394	-70.8		27	14.3
80	28	17,712	[illegible]		26	[illegible]
70	28	18,508	-68.5		26	7.3
60	28	19,439	-65.3		26	4.5
50	28	20,560	-61.7		26	4.5
40	26	21,959	-58.5		26	3.8
30	25	23,780	-55.4		27	4.9
25	24	24,951	-52.7		27	4.1
20	21	26,410	-50.2		26	4.9
15	20	28,310	-45.6		26	9.0
10	13	31,051	-40.3		26	[illegible]

Standard pressure surface mb	WINNEMUCCA, NV 872 MB: No. of observations	Dynamic height meters	Temperature °C	Dew Point °C *	Resultant Wind: Direction tens of deg	Resultant Wind: Speed m p s
SFC	29	1,312	-2.4	-8.7	21	.7
850	28	1,522	2.[illegible]	-6.2	21	1.6
800	29	2,003	.4	-8.7	25	3.1
750	29	2,519	-1.9	-10.9	26	5.3
700	29	3,065	-4.6	-14.4	27	7.4
650	29	3,645	-7.3	-19.5	28	9.3
600	29	4,266	-10.5	-22.1	28	11.3
550	29	4,931	-14.1	-26.1	28	13.5
500	29	5,648	-18.9	-30.3	29	15.8
450	29	6,425	-24.1	-34.1	29	17.1
400	29	7,275	-29.5	-39.7	29	21.3
350	29	8,218	-35.8	-44.6	29	23.0
300	29	9,271	-42.7		[illegible]	24.4
250	29	10,480	-50.8		29	23.2
200	29	11,912	-56.[illegible]		29	24.3
175	27	12,764	-59.7		28	21.4
150	27	13,724	-60.[illegible]		28	21.2
125	26	14,849	-62.3		28	19.3
100	26	16,220	-64.1		28	14.8
80	26	17,588	-63.7		28	10.8
70	25	18,406	-63.[illegible]		28	8.2
60	25	19,356	-62.6		30	8.4
50	25	20,482	-62.1		31	5.8
40	22	21,875	-60.3		32	4.7
30	20	23,685	-57.5		33	4.6
25	20	24,839	-56.[illegible]		35	3.6
20	16	26,247	-54.[illegible]		33	6.4
15	11	28,115	-52.[illegible]			

Standard pressure surface mb	WINSLOW, AZ 851 MB: No. of observations	Dynamic height meters	Temperature °C	Dew Point °C *	Resultant Wind: Direction tens of deg	Resultant Wind: Speed m p s
SFC	30	1,487	[illegible]	[illegible]	19	1.5
850	22	1,548	.4	-13.0	18	.7
800	30	2,010	5.2	-10.9	25	2.4
750	30	2,535	2.9	-13.1	27	4.2
700	30	3,091	.6	-16.3	28	5.6
650	30	3,683	-2.0	-19.5	29	7.6
600	30	4,315	-5.1	-21.3	29	10.0
550	30	4,994	-9.6	-25.0	29	12.0
500	30	5,722	-15.[illegible]	-30.5	28	12.9
450	29	6,517	-20.2	-34.7	28	15.2
400	29	7,378	-26.8	-40.3	28	18.3
350	28	8,326	-34.2	-46.6	28	19.8
300	26	9,374	-41.8	-53.5	28	21.9
250	26	10,587	-49.9		28	23.5
200	26	12,020	-57.7		28	22.6
175	26	12,856	-60.7		28	22.5
150	23	13,811	-62.7		28	21.0
125	20	14,918	-65.1		28	20.2
100	19	16,259	-67.7		28	17.5
80	19	17,600	-68.3		28	12.8
70	18	18,409	-66.8		29	10.0
60	18	19,343	-65.8		29	6.7
50	17	20,459	-63.9		29	6.7
40	16	21,847	-60.8		30	3.5
30	15	23,663	-57.3		27	2.3
25	12	24,829	-55.8		27	3.4
20	12	26,256	-54.1		28	6.0
15	10	28,099	-51.5		28	7.5
10	8	30,731	-48.3			

Standard pressure surface mb	YAKUTAT, AK 1000 MB: No. of observations	Dynamic height meters	Temperature °C	Dew Point °C *	Resultant Wind: Direction tens of deg	Resultant Wind: Speed m p s
SFC	30	12	[illegible]	[illegible]	[illegible]	[illegible]
1000	14	127	[illegible]	-3.8	[illegible]	3.3
950	30	422	-.4	-6.0	[illegible]	5.8
900	30	[illegible]	[illegible]	-7.6	[illegible]	5.6
850	30	1,303	-6.5	-9.9	[illegible]	[illegible]
800	30	1,775	-9.3	-13.5	[illegible]	5.2
750	30	[illegible]	-12.7	-18.3	[illegible]	5.3
700	30	2,794	[illegible]	-23.1	19	[illegible]
650	30	3,347	[illegible]	-26.9	[illegible]	5.2
600	30	3,937	-23.8	-31.8	[illegible]	[illegible]
550	29	4,559	-28.4	-36.6	[illegible]	[illegible]
500	29	5,236	-33.2	[illegible]	[illegible]	7.9
450	29	[illegible]	-38.1	-42.5	[illegible]	9.8
400	29	6,770	-43.3	[illegible]	[illegible]	11.8
350	28	7,665	-49.0		[illegible]	13.5
300	28	8,663	-53.7		[illegible]	15.8
250	28	9,834	-53.6		[illegible]	14.9
200	28	11,273	[illegible]		[illegible]	12.7
175	27	12,145	-52.2		[illegible]	13.1
150	27	13,142	-52.5		[illegible]	14.6
125	26	[illegible]	[illegible]		[illegible]	15.1
100	26	15,766	[illegible]		[illegible]	14.2
80	26	17,199	-54.3		[illegible]	15.2
70	26	18,054	-54.7		27	15.9
60	26	19,039	[illegible]		28	16.4
50	26	[illegible]	[illegible]		28	[illegible]
40	26	21,618	-56.4		28	20.0
30	25	23,439	-56.5		28	[illegible]
25	25	24,597	-56.5		28	21.1
20	23	26,000	-56.3		28	22.3
15	16	27,831	-55.7		[illegible]	27.5
10	8	30,415	[illegible]			

Standard pressure surface mb	YAP, CAROLINE IS. • 1006 MB: No. of observations	Dynamic height meters	Temperature °C	Dew Point °C *	Direction tens of deg	Speed m p s	YUCCA FLAT, NV 883 MB: No. of observations	Dynamic height meters	Temperature °C	Dew Point °C *	Direction tens of deg	Speed m p s
SFC	30	14	28.4	24.1	05	1.9	30	1,198	-1.3	-11.9	31	1.1
1000	28	72	27.3	23.3	06	2.7						
950	30	521	23.6	21.3	03	2.8						
900	30	993	20.7	17.6	03	3.4						
850	30	1,486	17.7	12.6	03	3.2	30	1,507	6.9	-9.7	36	2.6
800	30	2,003	15.4	8.5	03	2.6	30	2,003	4.7	-11.2	35	[illegible]
750	30	2,549	12.8	5.4	04	1.6	30	2,527	3.0	-13.0	29	2.5
700	30	3,127	10.0	.8	04	2.2	30	3,084	.8	-14.9	29	4.3
650	30	3,740	7.0	-3.5	04	3.1	30	3,676	-2.4	-17.9	29	6.9
600	30	4,394	3.2	-7.4	05	3.5	30	4,306	-6.5	-20.9	30	8.9
550	30	5,095	-.7	-12.4	06	4.2	30	4,981	-10.4	-25.3	29	12.0
500	30	5,850	-5.1	-18.7	06	4.2	30	5,708	-15.6	-29.9	29	13.4
450	30	6,671	-9.7	-23.4	06	3.2	30	6,495	-21.1	-34.8	29	14.9
400	30	7,571	-15.3	-29.9	06	2.4	30	7,353	-27.2	-39.8	29	17.3
350	30	8,570	-22.2	-35.1	04	2.1	30	8,305	-34.1	-45.5	29	18.8
300	30	9,681	-30.5	-42.3	05	.7	30	9,364	-41.7	-50.1	29	20.1
250	30	10,950	-40.6	-47.9	15	1.0	30	10,577	-49.9		29	21.4
200	30	12,429	-53.0		14	2.2	30	12,013	-57.2		28	21.7
175	30	13,277	-60.0		12	2.9	30	12,850	-60.5		28	23.6
150	30	14,222	-67.8		09	5.2	30	13,806	-62.6		28	20.9
125	30	15,298	-75.6		07	9.3	30	14,925	-64.7		28	18.7
100	30	16,563	-82.3		08	14.5	30	16,279	-67.0		28	14.5
80	30	17,824	-75.7		10	10.0	30	17,628	-66.6		28	9.7
70	30	18,608	-70.6		08	3.9	28	18,441	-66.2		29	7.5
60	30	19,532	-66.5		32	1.2	27	19,388	-63.8		28	7.0
50	30	20,650	-61.7		29	4.2	27	20,508	-63.0		30	4.2
40	29	21,942	-58.6		27	4.4	25	21,886	-61.1		31	3.2
30	29	23,870	-53.9		27	4.8	23	23,700	-57.5		33	2.1
25	29	25,047	-51.4		26	5.5	19	24,861	-54.5		29	2.1
20	27	26,512	-47.6		26	4.0	19	26,295	-52.8		30	2.9
15	23	28,437	-43.6		23	3.5	12	28,202	-50.3			
10	7	31,147	-39.3									

SOLAR RADIATION INTENSITIES

Tabulated in langleys per minute on a surface normal to the direction of the sun.

NOVEMBER 1975

Date	Sun's zenith distance								
	A M				*	P M			
	78.7°	75.7°	70.7°	60.0°		60.0°	70.7°	75.7°	78.7°

ALBUQUERQUE, NM

Air mass

	4.19	3.35	2.51	1.67	*	1.67	2.51	3.35	4.19
1-----	.78	.88	1.00	----	----	----	.87	.75	.62
2-----	----	----	1.01	1.18	1.31	1.20	1.02	.88	.79
3-----	.95	1.08	(1.16)	1.31	(1.40)	(1.30)	(1.16)	1.02	.85
4-----	.96	1.05	1.12	1.30	1.37	1.27	1.12	.99	.89
5-----	.96	1.05	1.17	1.28	1.37	1.29	1.17	1.03	.93
6-----	.89	.99	1.12	1.26	----	1.25	1.05	.88	.75
7-----	.99	1.08	1.19	1.29	1.41	1.32	1.16	1.04	.92
8-----	.93	1.04	1.16	1.31	1.40	1.33	1.14	1.00	.86
9-----	.99	1.10	1.22	1.36	1.40	1.34	1.23	1.12	1.02
10----	.96	1.06	1.18	1.31	(1.34)	1.30	1.13	.97	.76
11----	.92	1.03	1.12	1.30	1.38	1.34	1.15	1.05	.96
12----	1.05	1.14	1.24	1.39	1.45	1.38	1.25	1.13	1.04
13----	1.06	1.16	1.23	1.39	1.45	1.38	1.32	1.15	1.04
14----	1.05	1.14	1.25	1.37	1.42	1.38	1.24	1.11	1.02
15----	.98	1.08	1.21	1.36	----	1.35	1.15	----	----
16----	----	----	----	1.35	1.38	1.34	1.14	1.03	.93
17----	H(.80)	H(.91)	H(1.05)	H(1.07)	H(1.24)	H(1.21)	H(1.01)	H(.86)	H(.72)
18----	.92	1.02	1.14	1.27	1.31	----	----	----	----
20----	.94	1.05	1.21	1.37	1.43	(1.36)	----	----	----
21----	----	----	----	1.24	1.26	1.28	1.08	----	----
22----	1.03	1.13	1.23	1.40	1.43	----	1.24	1.12	1.02
23----	----	----	1.22	1.37	1.41	1.35	1.20	1.10	.98
24----	.93	1.06	1.20	1.36	(1.38)	----	1.17	1.06	.94
29----	----	----	----	----	----	----	1.13	1.05	.91
30----	1.02	1.11	1.21	1.35	1.37	1.32	1.19	1.08	.98
Averages	.96	1.07	1.17	1.32	1.39	1.32	1.15	1.03	.91

MADISON, WI

Air mass

	4.69	3.75	2.81	1.88	*	1.88	2.81	3.75	4.69
1-----	----	----	----	H .97	H 1.06	H 1.09	H .86	H .71	H .62
4-----	----	----	----	----	----	----	M .97	M .88	M .81
10----	----	----	----	----	S 1.26	----	S 1.11	S 1.01	S .92
15----	.86	S .99	S 1.10	----	----	----	----	----	----
16----	M .81	M .90	M .96	----	M 1.18	----	----	----	----
17----	M .71	M .79	M .89	----	M 1.07	----	M .90	M .76	M .68
19----	H .69	H .79	H .91	----	H 1.07	----	H .88	H .67	H .57
22----	S .87	----	S 1.08	----	S 1.22	----	S 1.10	M .62	M .52
25----	S .90	S 1.01	S 1.17	----	S 1.29	----	----	----	----
Averages	.81	.90	1.02	----	1.16	1.09	.97	.78	.69

OMAHA, NE

Air mass

	4.78	3.82	2.87	1.91	*	1.91	2.87	3.82	4.78
1-----	.69	.82	.94	----	----	----	.97	.74	----
7-----	.69	.85	1.03	1.25	1.28	1.21	1.07	.91	.82
10----	.99	1.09	1.20	1.36	1.38	1.36	1.16	1.04	.94
11----	----	----	----	1.19	1.24	----	----	----	----
14----	.90	1.01	.90	1.30	1.30	1.30	1.10	.90	.86
16----	----	----	1.12	----	----	----	1.10	----	----
22----	.91	1.03	1.14	----	1.37	----	1.23	1.11	1.01
Averages	.84	.96	1.06	1.28	1.31	1.29	1.15	.94	.91

Date	Sun's zenith distance								
	A.M				*	P M			
	78.7°	75.7°	70.7°	60.0°		60.0°	70.7°	75.7°	78.7°

BLUE HILL, MA

Air mass

	4.89	3.92	2.94	1.96	*	1.96	2.94	3.92	4.89
					NO DATA RECEIVED				

MAUNA LOA OBSERVATORY, HA

Air mass

	3.36	2.69	2.01	1.34	*	1.34	2.01	2.69	3.36
1-----	1.13	1.23	1.32	1.45	1.58	1.45	1.32	1.41	1.15
2-----	1.11	1.25	1.34	1.48	1.60	----	----	----	----
3-----	1.21	1.29	1.38	1.49	1.59	1.22	----	----	----
4-----	1.22	1.30	----	1.50	1.52	----	----	----	----
5-----	1.22	1.29	1.38	1.50	1.59	----	----	----	----
9-----	1.25	1.34	1.42	1.53	1.64	----	----	----	----
10----	1.24	1.34	1.43	1.55	1.65	1.54	1.43	1.34	1.26
11----	1.24	1.32	1.42	1.54	1.64	1.52	1.40	1.30	1.21
12----	----	----	----	----	----	1.47	1.33	1.23	1.16
13----	1.24	1.32	1.41	1.53	1.59	----	----	----	----
14----	1.22	1.30	1.39	1.51	1.62	1.50	1.38	1.27	1.18
15----	1.24	1.32	1.40	1.51	1.60	1.47	1.33	1.19	----
16----	1.23	1.31	1.40	1.51	----	----	1.37	1.27	1.18
18----	1.25	1.32	1.41	----	1.60	----	----	----	----
19----	1.23	1.31	1.40	1.51	1.59	1.43	----	1.20	1.13
20----	----	----	----	----	----	----	1.41	----	1.29
21----	1.21	1.28	1.38	1.50	1.59	----	----	----	----
23----	1.26	1.33	1.43	1.53	----	----	----	----	----
28----	1.13	1.22	1.32	1.45	1.55	1.45	1.33	1.24	1.15
29----	1.11	1.27	1.37	1.49	1.58	1.48	1.36	1.25	1.16
30----	1.22	1.30	1.41	1.52	----	1.51	1.38	1.27	1.19
Averages	1.20	1.29	1.38	1.50	1.60	1.45	1.36	1.26	1.18

TUCSON, AZ

Air mass

	4.64	3.71	2.78	1.86	*	1.86	2.78	3.71	4.64
2-----	.83	.94	1.07	1.25	1.35	1.24	1.09	.98	.88
3-----	.89	.99	1.10	1.25	1.38	1.31	1.12	.99	.91
4-----	.98	1.08	1.18	1.34	1.42	1.32	1.18	1.05	.93
5-----	.92	1.02	1.13	1.31	1.39	1.28	1.09	.96	.86
6-----	.88	.99	1.10	1.31	1.40	1.32	1.13	1.00	.90
7-----	.90	1.00	1.11	1.31	1.40	1.31	1.12	.95	.85
8-----	.95	1.06	1.17	1.31	1.43	1.34	1.20	1.07	.97
9-----	.89	.99	1.12	1.31	1.37	1.27	1.08	.97	.85
10----	.92	1.01	1.14	1.31	1.36	1.31	1.13	.98	.90
11----	.92	1.01	1.14	1.31	1.36	1.31	1.11	1.00	.92
12----	.79	.92	1.08	1.28	1.31	1.22	1.02	.91	.79
13----	.97	1.08	1.21	1.33	1.44	1.35	1.18	1.03	.90
14----	.90	1.04	1.15	1.31	1.35	1.29	1.07	.89	.88
15----	.97	1.08	1.20	1.35	----	1.31	1.18	1.08	.98
16----	.91	1.01	1.15	1.31	1.39	1.30	1.13	.99	.91
17----	.99	1.09	1.23	1.40	1.39	1.31	1.17	1.02	.92
18----	.91	1.02	1.08	1.27	1.36	1.26	.95	.80	.66
19----	.71	.81	.99	1.24	1.34	1.28	1.07	.93	.84
20----	.89	.99	1.14	1.30	1.41	1.32	1.13	1.00	.88
21----	.89	.97	1.11	1.29	1.33	1.31	1.18	1.04	.92
22----	.90	1.02	1.12	1.34	1.37	1.22	1.01	.85	.79
23----	----	----	----	----	1.40	1.33	1.21	1.06	.94
24----	.97	1.08	1.17	1.34	1.42	1.36	1.22	1.08	.96
25----	.93	1.03	1.19	1.35	----	----	----	----	----
27----	.83	.90	1.07	1.22	D 1.20	D 1.13	D .94	D .67	D .57
28----	----	----	----	----	----	----	1.04	.92	.80
29----	----	----	1.13	1.32	----	----	1.16	1.00	----
30----	.94	1.03	1.14	1.33	1.42	1.33	1.19	1.05	.95
Averages	.90	1.01	1.13	1.31	1.37	1.29	1.11	.97	.87

SOLAR RADIATION TOTALS

Daily totals and monthly averages of solar radiation (direct and diffuse) received on a horizontal surface, tabulated in langleys.

NOVEMBER 1975

Station	Day of month																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Avg.
ALBUQUERQUE NM	323	373	383	374	364	357	358	358	362	349	345*	341*	336*	339*	309*	327*	320*	243*	99*	309*	---	311	297	292	275	293	248	252	199	298		311
BISMARCK ND	256	222	228	238	223	199	188	230	122	197	53	160	204	213	199	192	68	117	77	120	208	163	67	167	140	186	81	59	123	167		162
CARIBOU ME	60	144	70	128	82	90	166	74	216	123	102	100	25	42	75	103	157	182	177	88	27	85	193	140	91	163	42	105	178	30		113
EL PASO TX	375	415	399	401	394*	404	403	402	398	384	396	384	388	380	330	339	360	335	364	354	355	365	267	347	310	333	330	108	223	342		353
ELY NV	346	344	344	316	331	327	149	327	327	265	317	309	311	335	296	283	107	287	275	245	293	266	263	224	285	131	126	178	202	225		268
FRESNO CA	331	318	313	311	288	211	293	270	308	250	309	307	307	260	288	145	229	275	230	272	166	287	155	260	235	222	111	187	269	252		255
JOHNSTON ISLAND PAC	201	237	499	506	502	404	392	471	519	468	491	480	383	217	222	437	428	357	381	393	400	452	418	420	355	464	470	426	451	440		409
LAS VEGAS NV	338	331	330	330	327	319	309	279	317	266	313	304	296	252	270	278	199	149	261	192	289	271	262	255	252	205	174	251	261	247		271
MADISON WI	251	22	35	184	214	109	85	147	18	240	60	29	137	226	217	215	203	118	201	40	77	214	184	75	210	131	96	99	19	38		130
MAJURO ISLAND PAC	400	448	154	340	512	333	434	175	520	80	284	63	177	207	165	503	363	258	443	263	194	481	222	260	482	510	524	374	518	429		337
MIAMI FL	404	411	221*	278	427	403*	377	392	302	352	276	316*	147	423	398	244	241	365	311	318	397	371	335	384	333	294	323*	285	346*	307		333
NASHVILLE TN	285	329	315	218	318	54	227	314	63	326	194	310	47	320	319	304	302	293	283	67	55	28	136	51	139	67	230	278	186	25		203
OAK RIDGE TN	335	295	299	244	238	173	100	236	157	128	134	70	69	163	303	287	279	269	243	126	147	158	108	123	95	200	267	242	168	60		191
PHOENIX AZ	354	363	366	356	354	343	344	339	348	335	329	336	322	256	297	305	308	290	309	294	305	318	305	306	277	285	251	76	293	299		309
SEATTLE TACOMA WA	99	50	21	234	62	75	103	77	146	122	63	210	78	65	98	65	133	207	90	115	90	55	34	48	74	60	69	162	131	8		95
STERLING VA	280	219	237	294	289	257	180	275	262	97	293	26	39	152	273	267	252	259	248	246	63	119	138	194	78	219	89	229	197	71		195
SWAN ISLAND W I	220	395	461	452	246	401	263	85	291	368	224	290	407	26	355	137	20	---	337	390	402	353	360	372	352	352	368	394	362	281		309
TALLAHASSEE FL	406	372	335	297	380	191	134	198	236	137	243	132	383	384	381	371	361	354	310	343	322	359	120	314	347	233*	122	333	321	281		290

NET RADIATION

Net radiation in langleys per day (8 a.m. to 8 a.m.) at Palmer, Alaska.

NOVEMBER 1975

Date.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Avg.
Langleys. . .	- 82	- 75	- 66	- 75	- 52	- 12	- 33	- 65	- 34	- 39	- 68	- 34	- 22	- 5	- 6	5	19	- 7	- 24	- 67	-105	- 69	- 69	- 28	- 18	- 11	- 27	- 42	- 30	9		- 39

SOLAR ULTRA-VIOLET RADIATION DATA

Daily totals and monthly average (< 3900 A) at Ames, Iowa

Date.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Avg.
Langleys. . .																																

NO DATA RECEIVED

TOTAL OZONE DATA

These provisional ozone data are obtained from measurements made with a Dobson ozone spectrophotometer, and are applicable approximately to local apparent noon. The data are presented in the code s Ω Ω Ω defined in the August 1962 WMO circular entitled "PUBLICATION OF DATA FOR METEOROLOGICAL RESEARCH, WORLD OZONE DATA."

Units Milli-atmo-cms.

Station	Day of month																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean O3

NO DATA RECEIVED

REFERENCE NOTES

OBSERVED EXTREMES OF TEMPERATURE AND PRECIPITATION -- BY STATES   Dates in the table apply to the period 24 hours prior to time of observation. In some cases the actual occurrence is on the calendar date preceding that shown. (See individual Climatological Data for times of observations).

+	And also on an earlier date or dates.
D	Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch of water equivalent to every 10 inches of snowfall.

CLIMATOLOGICAL DATA - METRIC UNITS: Data from airport unless otherwise specified.

Precipitation data in column headed "Greatest in 24 hours" are computed on a 24-hour basis without regard to calendar day - data may include precipitation with a measurable amount from the last day of the previous month or the first day of the following month.

Wind directions under resultant direction are in tens of degrees.

Value entered in column "Fastest Mile" is the highest observed 1-minute wind speed when the direction is in tens of degrees. These stations are not equipped with a recording anemometer from which "Fastest Mile data can be evaluated.

B	Number of days maximum 21.1°C. or above for Alaskan Stations.
Y	Peak Gust.
+	And also on an earlier date or dates.
U	Indicates Urban site.
R	Indicates Rural site.
Ø	Station pressures apply to elevations shown in the "Elevations" table of the annual issue of this publication.

Conversion formulae to English Units are as follows:

1 foot = 0.3048 meters
$°F. = \frac{9}{5} \times °C + 32$
1 inch = 25.4 millimeters
1 mile per hour = 0.447 meters per second

HEATING DEGREE DAYS: Data from airport unless otherwise specified.

U	Indicates Urban site.
R	Indicates Rural site.

COOLING DEGREE DAYS: Data from airport unless otherwise specified.

U	Indicates Urban site.
R	Indicates Rural site.

STORM SUMMARY:

°	Includes crop damage.
C	Crop damage.
*	No occurrence of storms or unusual weather phenomena reported.
@	Includes heavy sleet storm.
#	Freezing drizzle and freezing rain, commonly known as glaze.
Ø	For breakdown of "All Others," and for detailed listing of other storms, see the Environmental Data Service, NOAA, monthly publication STORM DATA.
‡	No Storm Data Report received for this State.
<>	Report Incomplete.
†	Storm damages are placed in categories varying from 1 to 9 as follows:

1	Less than $50
2	$50 to $500
3	$500 to $5,000
4	$5,000 to $50,000
5	$50,000 to $500,000
6	$500,000 to $5 Million
7	$5 Million to $50 Million
8	$50 Million to $500 Million
9	$500 Million to $5 Billion.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS:

1/	Flooding continued at the end of the month.
NA	Not available.

FLOOD STAGE DATA:

#	Highest Stage Observed
1/	Continued at end of month
___	Highest Stage of Record
E	Estimated
P	Provisional (Flood Stage)
U	Unknown

RAWINSONDE DATA (Average Monthly Values):

All observations scheduled at 1200, G.C.T. Pressures shown under station names are the average monthly station pressures for the month of record, corrected to the height of the floors of the instrument shelters used for rawinsonde purposes. "Number of observations" refers to those of dynamic height only. Although the number of temperature observations at any given pressure surface is usually the same as for height, it is possible for temperature to be missing for one or more pressure surfaces of some observations. Dew Point averages are limited to those observations with temperatures warmer than -40°C. Observations of wind speed and direction are sometimes lost due to limiting angles, i.e., elevation angles less than 6° above the horizon, or any obstruction above the horizon. The temperature and wind values are based on 15 or more observations at the surface or 5 observations at a standard pressure level for temperature and 10 for wind. Dew Point data are not published for standard pressure surfaces for which less than 5 observations are available. Dew Point data are computed and expressed on the basis of vapor pressure over water. Unless otherwise indicated, they are obtained from carbon hygristors. These average values for standard pressure surfaces were obtained by rawinsondes; dynamic height (geopotential) in units of .98 dynamic meter, temperature and dew point in degrees Celsius, and resultant winds in tens of degrees and meters per second.

*	Rawinsondes at this station were equipped with hypsometers to permit more accurate evaluations of pressure, and consequently height, at pressures lower than 50 mb. These rawinsondes were carried aloft by special high altitude balloons, in an effort to consistently reach higher altitudes.
+	Observations for these stations are scheduled at 0000 G.C.T.
†	Dew Point temperatures are based on a minimum of 5 observations. Therefore, due to the lesser number of Dew Point observations at the higher levels comparison with dry-bulb temperatures should be made with care. Dew Point temperatures replaced Relative Humidity January 1967.

REFERENCE NOTES

SOLAR RADIATION INTENSITIES: Langley is the unit used to denote one gram calorie per square centimeter. An explanation of the formula used in computing the air mass values for each station appears in the February 1957 issue, Vol. 8, No. 2, page 63, of this publication.

()	Clouds Present	DM	Moderate Dust	HM	Moderate Haze	KS	Slight Smoke
*	Values corresponding to true solar noon	DS	Slight Dust	HS	Slight Haze	M	Moderate Haze-indeterminable
BD	Blowing Dust	F	Fog	I	Intense Haze-indeterminable		
BN	Blowing Sand	GF	Ground Fog	K	Smoke	N	Sand
D	Dust	H	Haze	KI	Intense Smoke	S	Slight Haze-indeterminable
DI	Intense Dust	HI	Intense Haze	KM	Moderate Smoke		

SOLAR RADIATION TOTALS: Langley is the unit used to denote one gram calorie per square centimeter.

* Values with an asterisk are interpolated.
Data are only for those stations equipped with Eppley Model II sensors.

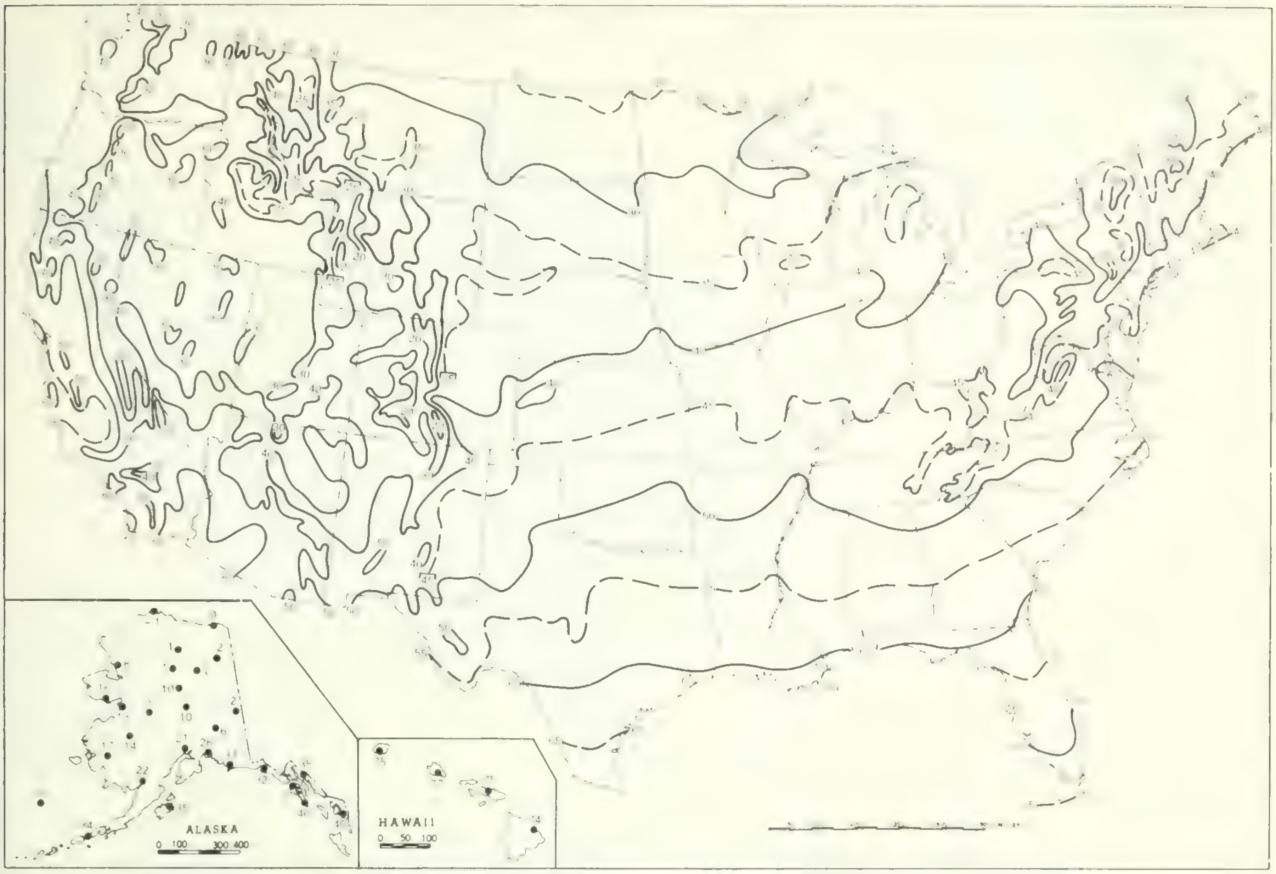
NET RADIATION: The measurement is made with a CSIRO FUNK net exchange radiometer over a plot of sod. The value represents the total incoming minus the total outgoing radiation of all wave lengths.

These data are of an experimental nature and are published as received from the Palmer Exp. Station. The instrument with which they were measured has not been checked by the NOAA, National Weather Service.

SOLAR ULTRA-VIOLET RADIATION DATA: These data are from an U-V Eppley total ultra violet sensor and Speedomax H (Leeds Northrup) Recorder. This instrument has not been checked by the NOAA, National Weather Service.

TOTAL OZONE DATA: The spectrophotometer measures the total amount of ozone in the atmosphere, i.e., the amount contained in a vertical column of air extending from ground level to the top of the atmosphere in the vicinity of the station. The amount of ozone in this column (coded $\Omega\ \Omega\ \Omega$) is expressed in terms of a thickness of a layer it would occupy at standard temperature and pressure, e.g., 350 milli-atmo-cm ozone implies an ozone layer 0.350 centimeter thick. The code λs designates the type of measurement made.

Chart 1. A. Normal Daily Average Temperature (°F. 1941-70), November.


ALASKA
0 100 300 400
HAWAII
0 50 100
10
10
14
22

B. Temperature Departure from 30 - Year Mean (°F 1941-70), November 1975

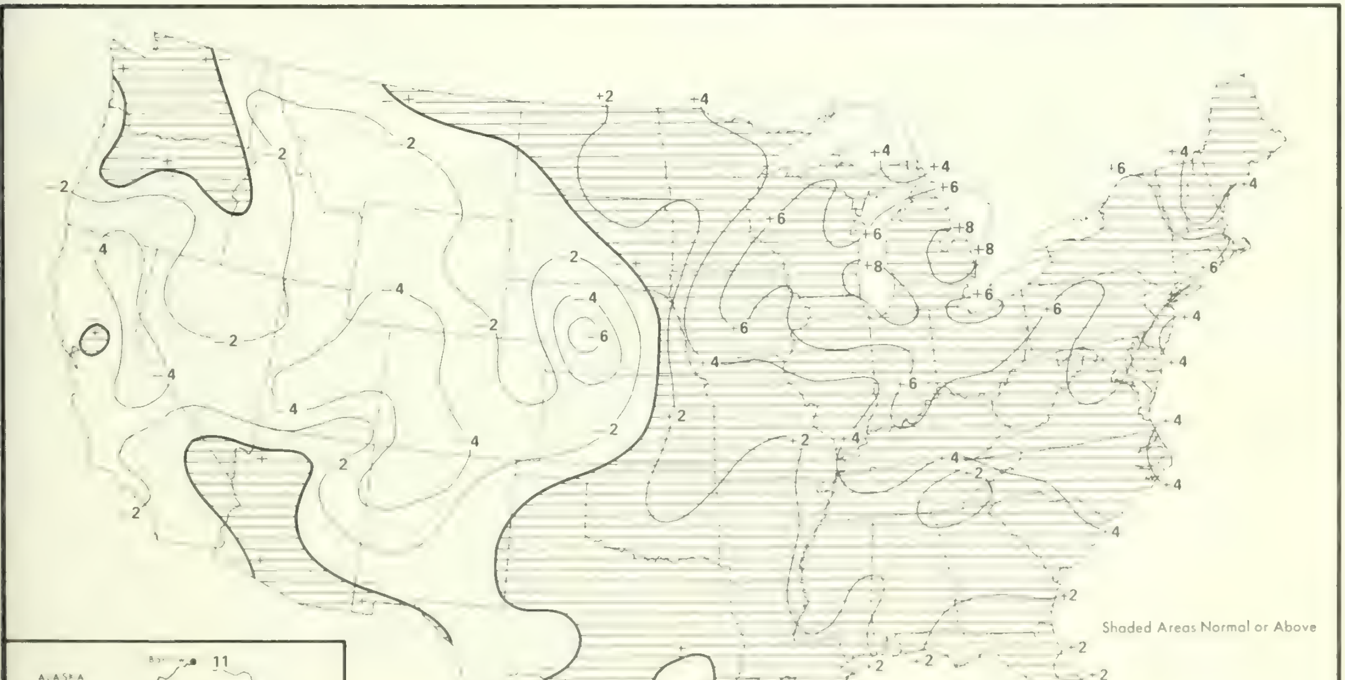
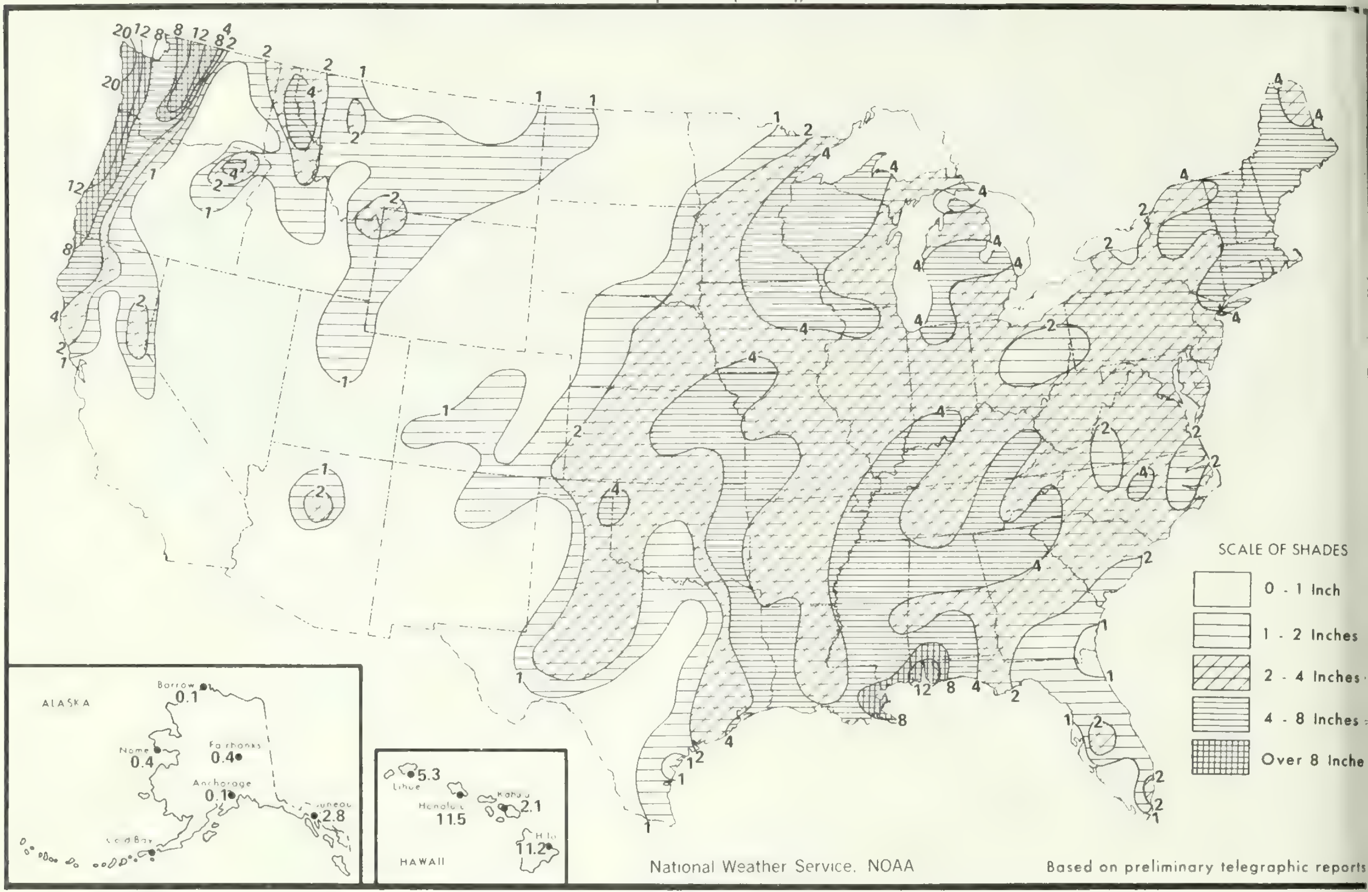

+2
+4
2
-2
4
-4
-6
+4
+6
+8
+6
-2
+2
Shaded Areas Normal or Above
ALASKA
11
+5
8
7
4
2
0
1
0
National Weather Service NOAA
Based on preliminary telegraphic reports

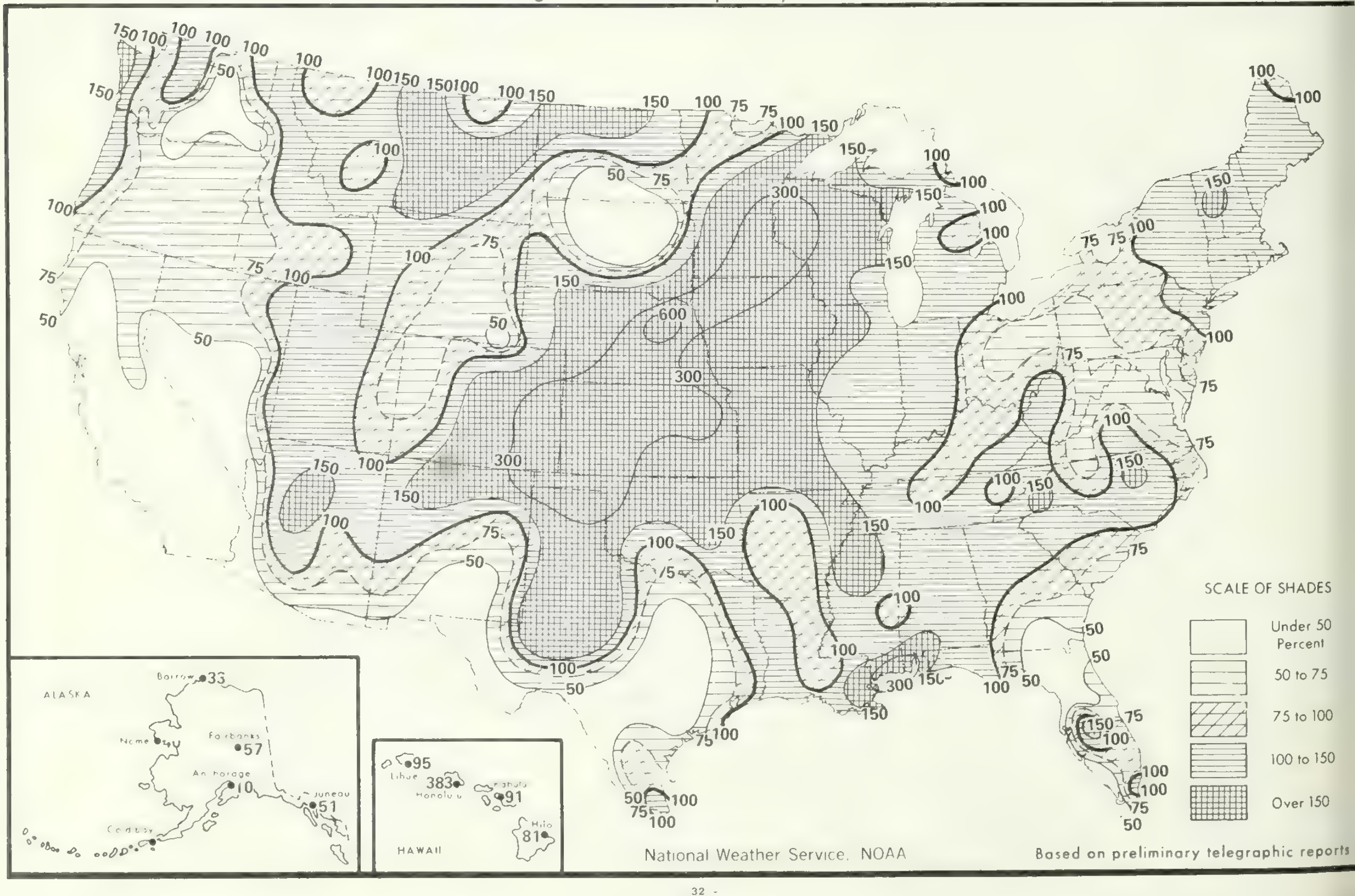
Chart II. A. Total Precipitation (Inches), November 1975


ALASKA
Barrow 0.1
Nome 0.4
Fairbanks 0.4
Anchorage 0.1
Juneau 2.8
Cold Bay
HAWAII
Lihue 5.3
Honolulu 11.5
Kahului 2.1
Hilo 11.2
SCALE OF SHADES
0 - 1 Inch
1 - 2 Inches
2 - 4 Inches
4 - 8 Inches
Over 8 Inche

National Weather Service, NOAA

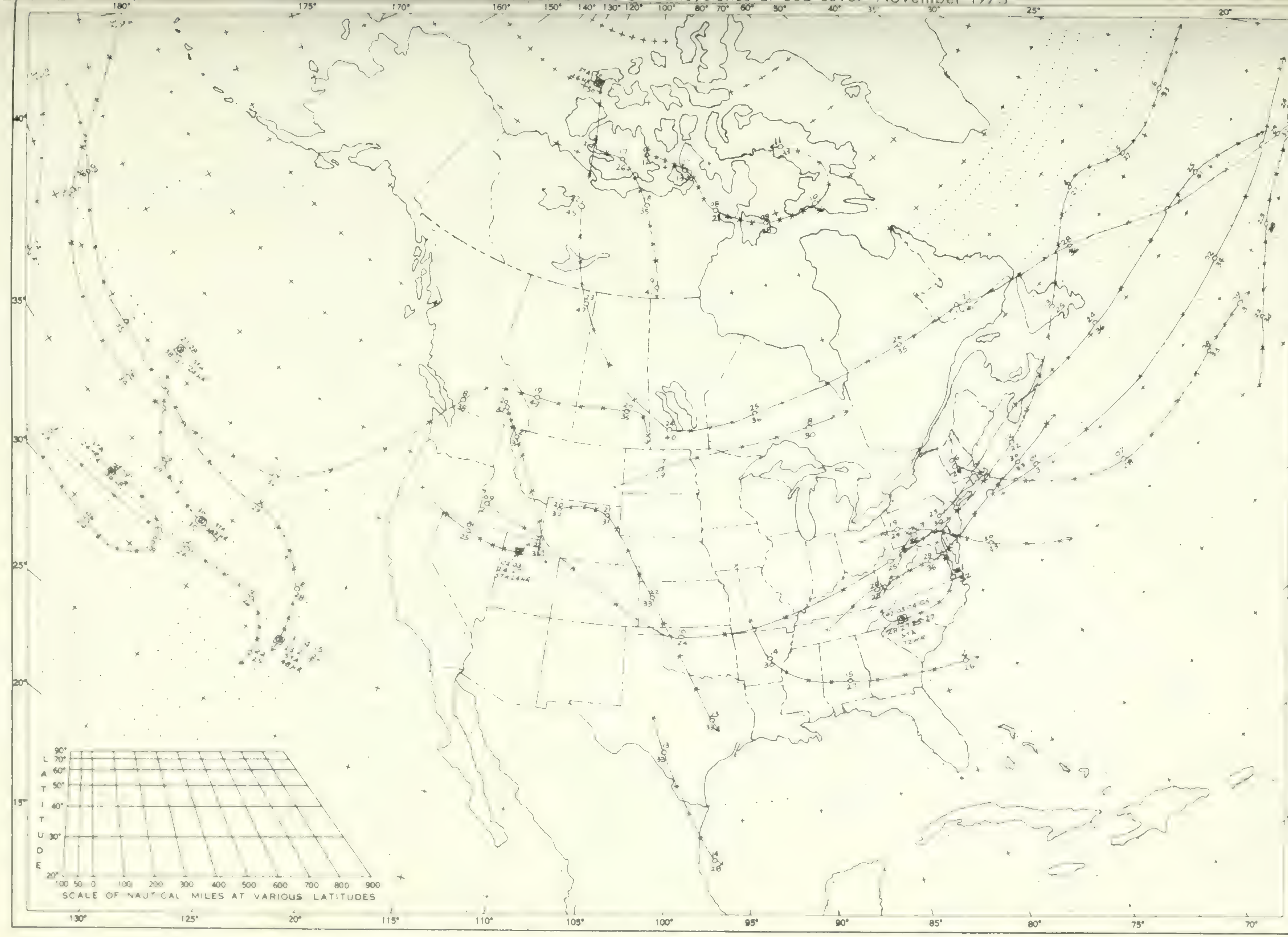
Based on preliminary telegraphic reports

B. Percentage of Normal Precipitation, November 1975


ALASKA
Barrow 33
Nome
Fairbanks 57
Anchorage 10
Juneau 51
Cold Bay
HAWAII
Lihue 95
Honolulu 383
Kahului 91
Hilo 81
SCALE OF SHADES
Under 50 Percent
50 to 75
75 to 100
100 to 150
Over 150

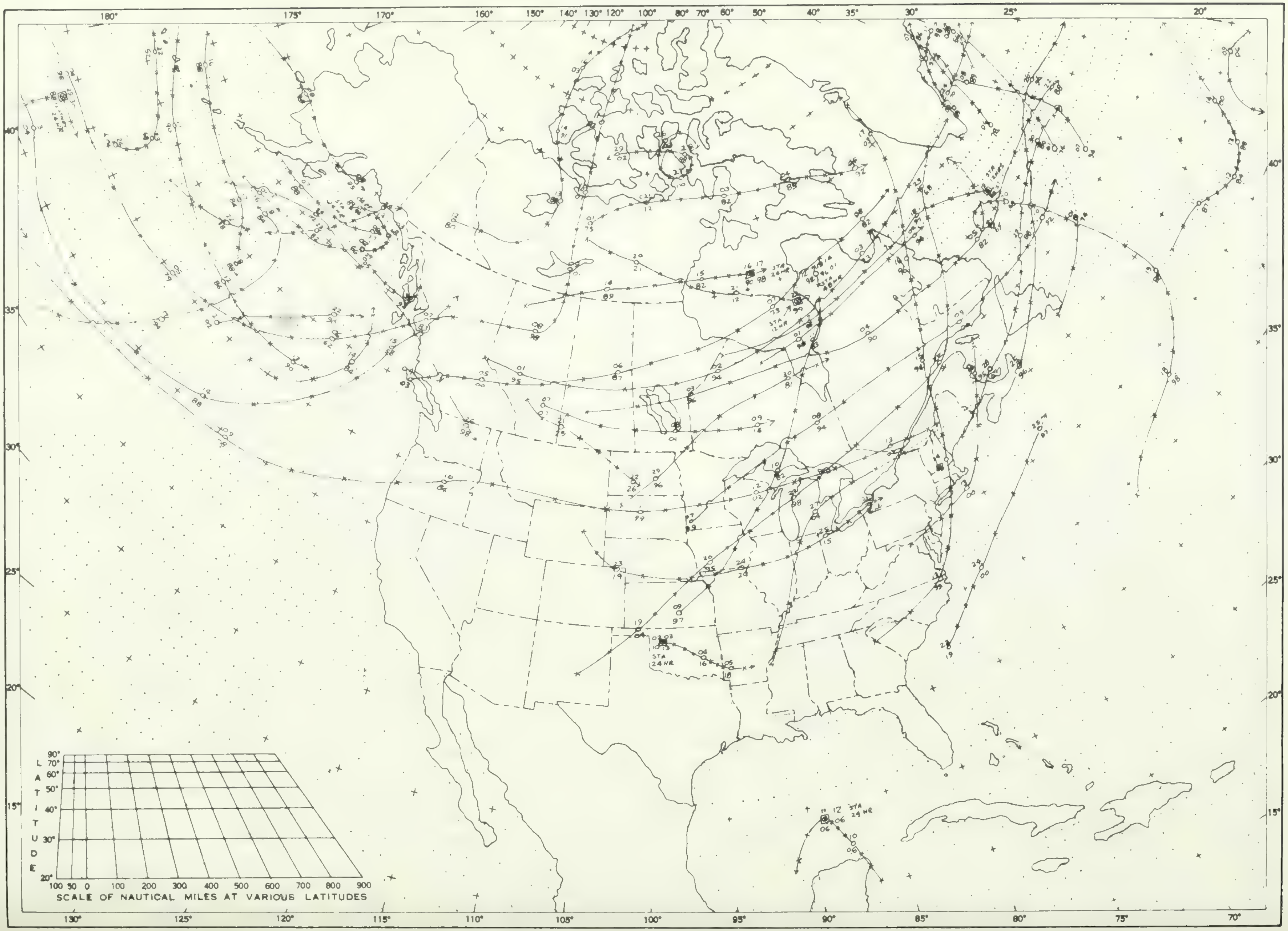
National Weather Service, NOAA

Based on preliminary telegraphic reports


180°
175°
170°
160°
150°
140°
130°
120°
100°
80°
70°
60°
50°
40°
35°
30°
25°
20°
15°
130°
125°
115°
110°
105°
95°
90°
85°
75°
LATITUDE
90°
70°
60°
50°
40°
30°
20°
100 50 0 100 200 300 400 500 600 700 800 900
SCALE OF NAUTICAL MILES AT VARIOUS LATITUDES

Circle indicates position of center at 7:00 a.m. E.S.T. Figure above circle indicates date, figure below, pressure to nearest millibar. X's indicate intervening 6 hourly positions. Squares indicate position of stationary center for period shown. Dashed line in track indicates reformation at new position. Only those centers which could be identified for 24 hours or more are included.

Chart IV. Tracks of Centers of Cyclones at Sea Level, November 1975


180°
175°
170°
160°
150°
140°
130°
120°
100°
80°
70°
60°
50°
40°
35°
30°
25°
20°
15°
130°
125°
120°
115°
110°
105°
100°
95°
90°
85°
80°
75°
70°
STA 24 HR
STA 12 HR
STA 48 HR
L A T I T U D E
90°
70°
60°
50°
40°
30°
20°
100 50 0 100 200 300 400 500 600 700 800 900
SCALE OF NAUTICAL MILES AT VARIOUS LATITUDES

Circle indicates position of center at 7:00 a.m. E.S.T. Figure above circle indicates date, figure below, pressure to nearest millibar. X's indicate intervening 6-hourly positions. Squares indicate position of stationary center for period shown. Dashed line in track indicates reformation at new position. Only those centers which could be identified for 24 hours

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1776-1976

DECEMBER 1975 VOLUME 26 NUMBER 12

CLIMATOLOGICAL DATA

NATIONAL SUMMARY

DEPARTMENT OF COMMERCE
UNITED STATES OF AMERICA

"I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM INFORMATION RECEIVED AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801."

Thomas D. Potter
DIRECTOR
NATIONAL CLIMATIC CENTER

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL DATA SERVICE / NATIONAL CLIMATIC CENTER ASHEVILLE, N.C.

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NOTE: Late reports and corrections will be carried in the June and December issues of this publication. An explanatory page "Description of Charts" will be carried in the January and July issues.

SUBSCRIPTION PRICE: $10.20 a year including annual summary; $9.10 additional for foreign mailing; 70¢ single copy; $1.80 annual summary. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, NC 28801. Attn: Publications.

CLIMATOLOGICAL DATA

NATIONAL SUMMARY

DECEMBER 1975

GENERAL SUMMARY OF WEATHER CONDITIONS

Dr. Richard E. Felch, Climatologist

ve normal temperatures early in December helped
snow cover in parts of the central and northern
at Plains and thus added much needed moisture to
seeded crops. Growth response was minimal, how-
, because even these above normal readings were
er cool. Average temperatures for the month were
al or above normal in most of the Nation, except
central Rockies, western and central California,
Southeast, and northern New England.

ipitation was below normal from western Texas to
ern Kansas and southeastern Colorado and north-
ward through northern Minnesota. Most of penin-
Florida also complained of dry weather.

mber weather began on a warm note with above nor-
temperatures across most of the Nation during the
t two weeks. The north central Great Plains in
first week and the northwestern Plains and Far
in the second week were the exceptions with
age temperatures 3 to 8° below normal. The gen-
ly warm weather reduced fuel requirements of up
0%.

in the Pacific Northwest persisted through the
and caused extensive flooding--the worst in re-
years--in the lowlands of western Washington.
where heavy snow fell in the upper Great Lakes
on with lighter amounts in the lower Lakes area.
nter storm in the Northeast added an extra foot
now in the Vermont mountains, where Stowe
ured nearly 2 feet.

the 8th to the 14th a series of disturbances
ng across the Nation triggered a variety of pre-
tation. A winter storm that developed in the
spread snow from the Pacific Northwest into the
hern Plains and the Great Lakes area. Heaviest precipitation occurred from northeast Oklahoma and eastern Kansas northeastward through southern Michigan where 1 to 2 inches fell during the week. On the 9th showers and thunderstorms developed from Florida into the Carolinas. On the 13th cold air pushing southward triggered thunderstorms in Illinois, Indiana, and Michigan. A drop of 30° was common in Kansas and Iowa on the 14th while unseasonably warm weather caused record temperatures throughout the middle Mississippi and Ohio Valleys.

In the third week of the month the temperatures averaged below normal throughout most of the Nation. The arctic air that had moved into the Plains earlier gradually encompassed most of the country. Precipitation focused mainly on the eastern third of the Nation as the arctic air pushed the warmer air out. Along a line from eastern Texas to New England precipitation fell along the eastward moving front. Blowing snow and frigid temperatures dominated weather patterns in the northern and central portions of the country.

The arctic air continued to affect the eastern portion of the country during the last week of December, but above normal temperatures prevailed throughout most of the West and from the Great Lakes region to western Texas and beyond. Storms moving into the Pacific Northwest brought Pacific maritime air that gradually ameliorated the frigid arctic air in the West. Western Washington collected 2 to 5 inches of rain and areas southward into central California received lesser amounts. Towards the end of the month, a low pressure system in southeast Texas spread much needed precipitation into Texas, New Mexico, Oklahoma, and Arkansas.

OBSERVED EXTREMES OF TEMPERATURE AND PRECIPITATION -- BY STATES

DECEMBER 1975

STATE	Temperature						Precipitation			
	Monthly extremes						Monthly extremes			
	Station	Highest	Date	Station	Lowest	Date	Station	Greatest	Station	Least
		°F			°F			In.		In.
Alabama	4 Stations	79	16	Haleyville 3 NE	2	19	Evergreen	11.15	Saint Bernard	2.63
Alaska	2 Stations	52	19	Tok	-68	5	Little Port Walter	38.14	2 Stations	.01
Arizona	Castle Hot Springs Hotel	85	9	Sanders 11 ESE	-13	15	Sierra Ancha	2.67	Mc Neal	T
Arkansas	Dermott 3 NE	79	15	Deer	3	19	Harrison FAA AP	7.24	Morobay Lock 8	1.35
California	Canoga Park Pierce College	93	9	Termo	-10	15	Gasquet Ranger Station	11.26	17 Stations	.00
Colorado	Trinidad FAA AP	75	10	2 Stations	-31	20	Wolf Creek Pass 1 E	2.75	7 Stations	T
Connecticut	Hartford WSO AP	63	15	Coventry	-13	25	Stevenson Dam	6.56	Falls Village	3.36
Delaware	Lewes 1 SW	68	15	Georgetown 5 SW	13	20	Lewes 1 SW	3.66	Dover	1.33
Florida	Okeechobee	87	1	Smith Creek	17	19	Tallahassee WSO AP	7.83	Naples 2 NE	T
Georgia	Waycross 4 NE	81	1	Blue Ridge	5	19	Clayton 1 SSW	8.64	Folkston 3 SW	1.82
Hawaii	Molokai AP 524, Molokai	88	16	Mauna Loa Slope obs, Hawaii	28	31	Waiakea SCD 80.2, Hawaii	8.55	5 Stations	.00
Idaho	Grand View 2 W	65	1	Island Park Dam	-21	11	Fenn Ranger Station	8.72	Oakley	.06
Illinois	2 Stations	70	14+	Peru 2 W	- 3	19	Benton Forest Service	6.17	Stockton	.24
Indiana	English	71	14	Gary	- 9	18	Sullivan	5.83	Wheatfield 2 NNW	2.31
Iowa	3 Stations	68	11	Colo	-15	18	Fort Madison	D 4.08	2 Stations	T
Kansas	Wilson Lake	76	6	2 Stations	- 5	18	Longton	3.62	6 Stations	.00
Kentucky	Blaine	75	6	Stearns 1 W	1	19	Caneyville	6.27	Elkhorn City	2.20
Louisiana	5 Stations	81	16+	Ashland 2 S	11	19	Quarantine	8.16	Sterlington	.55
Maine	Sanford 2 NNW	62	1	Squa Pan Dam	-35	26+	Bar Harbor 3 NW	9.11	Clayton Lake 2	2.56
Maryland	La Plata 1 W	71	6	Oakland 1 SE	- 3	24	Baltimore WSO CI	5.43	Annapolis USN Academy	1.97
Massachusetts	Borden Brook Reservoir	69	16	Chester 2	-18	25+	Chatham WSMO	7.67	Barre Falls Dam	3.30
Michigan	4 Stations	66	14	Ironwood	-19	18	Allegan Wastewater Plant	4.70	De Tour 1 N	.80
Minnesota	2 Stations	58	6	Tower 3 S	-38	18	Albert Lea	1.73	4 Stations	T
Mississippi	2 Stations	80	15	University	9	19	Shubuta	6.68	Vicksburg Military Park	1.96
Missouri	6 Stations	72	15	3 Stations	- 1	18	Tecumseh	6.83	Burlington Junction	.69
Montana	Wyola	68	9	Raymond Border Station	-39	14	Troy 18 N	7.80	Valier	.03
Nebraska	3 Stations	71	5+	2 Stations	-19	18+	Wahoo	1.75	4 Stations	T
Nevada	Sunrise Manr Las Vegas	78	8	Spring Valley State Park	-11	14	North Fork 7 NW	.95	3 Stations	.00
New Hampshire	3 Stations	64	15	Mount Washington	-32	19	Mount Washington	10.48	Colebrook 2 E	2.87
New Jersey	Long Branch 2 S	70	15	2 Stations	4	26+	2 Stations	3.65	Midland Park	1.81
New Mexico	Jal	81	11	Fence Lake	-20	15	Hickman	2.44	5 Stations	.00
New York	2 Stations	64	1	Canton 4 SE	-32	20	Little Valley	7.44	New Kingston	1.38
North Carolina	2 Stations	77	6	Grandfather Mountain	- 5	19	Rosman	8.34	Sparta	.92
North Dakota	Watford City 14 S	55	4	2 Stations	-33	18	Minot FAA AP	1.65	Mohall	.04
Ohio	Ironton	72	1	Montpelier 1 WSW	- 6	29	Chardon	5.50	2 Stations	2.15
Oklahoma	Waurika	81	5	Mannford 6 NW	0	18	Tahlequah 1 SE	5.30	4 Stations	T
Oregon	2 Stations	69	8+	2 Stations	-11	14	Nehalem 9 NE	37.61	Rome 2 NW	.30
Pennsylvania	Uniontown 1 NE	72	1	Clermont 1 NW	-17	24	Union City Filt Plant	5.78	Paupack 2 WNW	1.05
Puerto Rico	2 Stations	90	7+	Pico Del Este	48	30	Pico Del Este	26.66	Hacienda Constanza	1.72
Rhode Island	Providence WSO AP	63	1	Kingston	- 6	25	Woonsucket	6.00	Block Island WSO AP	3.40
South Carolina	Sumter	82	6	Caesars Head	3	19	Caesars Head	7.42	Hilton Head	2.31
South Dakota	3 Stations	76	5+	Camp Crook	-30	17	Lead 1 E	2.26	4 Stations	.03
Tennessee	3 Stations	74	6	Norris	1	19	Copperhill	6.61	Lexington	1.75
Texas	Fowlerton	92	12	Bravo	3	18	Goliad	8.21	4 Stations	.00
Utah	Zion National Park	69	9	Scofield Dam	-20	16	Alta	5.23	Ferron	T
Vermont	Bristol 5 NNW	62	15	Enosburg Falls	-31	20	Searsburg Station	5.57	South Hero	1.98
Virginia	Diamond Springs	75	16	Mt Lake Biological Station	- 5	19	Vienna Dunn Loring	4.70	Radford	.82
Virgin Islands	Charlotte Amalie 2	88	25	2 Stations	62	8+	Annaly	12.81	Good Hope School	3.61
Washington	Walla Walla WSO CI	67	8+	3 Stations	- 1	14	Quinault Ranger Stations	35.92	Wenatchee FAA AP	.29
West Virginia	London Locks	76	1	Spruce Knob	- 5	19	Ripley	5.63	Blue Stone Lake	1.05
Wisconsin	2 Stations	63	14	Minong 5 WSW	-32	18	Lakewood 3 NE	2.31	Baraboo	.15
Wyoming	2 Stations	70	4	Lamar Ranger Station	-33	16	Snake River	D 6.07	Deaver	T

CLIMATOLOGICAL DATA

METRIC UNITS

DECEMBER 1975

State and Station	Elevation (ground)	Pressure: Station	Pressure: Sea level	Temperature: Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days: Max 32.2 °C or above	No. of days: Min 0 °C or lower	Average dew point	Average relative humidity	Precipitation: Total	Departure from normal	Greatest in 24 hours	No. of days: 25 mm or more	No. of days: With thunderstorms	Snow, Ice pellets: Total	Maximum depth on ground	Wind: Resultant speed	Resultant direction	Fastest mile (1.6 kilometers): Speed	Direction	Date	No. of days (sunrise to sunset): Clear 0-3	Partly cloudy 4-7	Cloudy 8-10	Sky cover tenths (sunrise to sunset)	Possible sunshine
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
ALABAMA																																
BIRMINGHAM	189	999.3	1022.3	12.5	1.5	7.0	-0.3	22.8	14	-10.0	19	0	14	2.2	75	89	-44	34	9		T		[illegible]	31	11.6	SW	26	8	6	17	6.6	55
HUNTSVILLE	190	999.0	1022.7	10.7	0.7	5.7	-0.1	21.7	14	-10.6	19	0	13	1.1	74	90	-46	26	9	1	T	T	[illegible]	32	11.1	12	25	9	5	17	6.5	
MOBILE	64	1013.5	1021.6	16.7	5.7	11.2	-0.4	25.6	15+	-5.6	19	0	6	5.6	71	124	-24	51	9	1	0		[illegible]	5	10.5	16	25	11	8	12	5.5	
MONTGOMERY	59	1014.9	1022.4	14.4	1.9	8.2	-1.0	24.4	14	-7.2	19	0	13	2.2	71	118	-7	46	9	1	0		[illegible]	33	12.1	[illegible]	21	12	5	14	5.6	48
ALASKA												B																				
ANCHORAGE	35	999.3	1004.4	-7.6	-15.1	-11.3	-1.8	6.1	17	-29.4	8	0	30	-15.0	70	23	-5	5	13	0	292	178	[illegible]	[illegible]	15.6	15	16	8	3	20	6.7	36
ANNETTE	34	1006.4	1011.3	5.4	0.5	2.9	0.8	10.6	21	-5.6	4	0	16	0.0	83	378	70	52	28	0	640	279	2.8	16	16.1	16	15	1	2	28	9.2	
BARROW	9	1014.9	1015.3	-27.1	-32.7	-29.9	-5.3	-17.8	29	-40.0	5	0	31	-32.8	77	T	-5	T	1	0	T	152	[illegible]	6	9.4	10	31+					
BARTER ISLAND	12	1013.2	1015.3	-25.9	-32.8	-29.4	-4.7	-15.0	31	-42.2	9	0	31	-32.2	75	6	-2	5	3	0	58	152	2.4	24	26.1	27	1					
BETHEL	39	999.0	1005.1	-12.0	-20.1	-16.1	-0.7	1.7	30+	-38.3	10	0	31	-18.9	77	9	-6	[illegible]	13	0	165	152	2.6	4	20.6	12	30	8	5	18	6.9	
BETTLES	196			-24.2	-32.0	-28.1	-3.6	-3.9	17	-48.3	7	0	31			15	-6	9	7		310	457			10.1	1	15	9	4	13	6.1	
BIG DELTA	386			[illegible]	-28.7	-24.3	-4.2	3.9	17	-50.0	5	0	31			T	-10	T	1		18	330										
COLD BAY	29	997.3	1000.7	0.3	-4.9	-2.3	-1.6	10.0	12	-15.6	9	0	25	-4.4	85	128	66	52	20	0	518	330	[illegible]	14	24.6	12	29	3	5	23	8.4	
FAIRBANKS	133	993.6	1012.1	-20.3	-31.1	-26.7	-3.2	-3.9	17	-46.1	8+	0	31	-30.6	70	9	-9	4	4		171	356	[illegible]	1	8.0	3	19	4	10	17	7.2	
GULKANA	479			-16.9	-26.4	-21.7	-1.1	1.7	19	-42.2	10	0	31			8	-12	4	5		146	483										
HOMER	19	999.1		-3.3	-11.0	-7.1		[illegible]	16	-24.4	6	0	28			103	48	28	16	0	419	152	2.4	4	13.4	1	19	9	5	17	6.5	
JUNEAU	4	1007.8	1009.6	-1.6	-6.6	-4.1	-1.4	7.2	19	-18.3	6+	0	24	-7.8	75	149	43	26	23	0	1295	813	[illegible]	11	13.4	13	19	1	2	28	9.4	27
KING SALMON	15	1001.3	1012.6	-6.9	-17.3	-12.1	-1.8	3.9	30	-37.2	8	0	31	-15.0	78	35	8	11	10	0	353	229	1.5	7	17.4	10	15	8	6	17	6.4	
KODIAK	4	996.3	1006.6	-0.7	-6.5	-3.6	-2.4	4.4	26+	-17.8	10+	0	28	-6.7	78	236	109	34	18	0	841	[illegible]	1.6	24	15.6	3	18	6	6	14	7.3	
KOTZEBUE	3	1009.4	1011.3	-17.3	-25.5	-21.4	-1.5	[illegible]	31	-37.2	11+	0	31	-26.1	67	9	1	5	11	0	214	254	[illegible]	8	21.6	11	31	11	2	18	6.2	
McGRATH	103	995.6	1009.1	-22.1	-32.1	-27.1	-4.2	[illegible]	17	-50.0	7	0	31			29	4	13	13		465	533	0.1	1	7.1	1	19	10	7	14	5.9	
NOME	4	1006.4	1007.1	-11.7	-21.8	-16.7	-1.4	[illegible]	31+	-40.0	10+	0	31	-19.4	77	14	-3	5	12	0	239	229	2.3	5	17.4	9	[illegible]	5	3	23	7.6	24
ST. PAUL ISLAND	7			0.8	-3.9	-1.5	0.8	4.4	15+	-16.1	8	0	23			17	-33	8	15		114	76			24.1	9	14	2	6	23	8.3	
SUMMIT	731			-13.9	-21.9	-17.9	-1.8	1.1	15	-36.1	6+	0	31			36	5	14	9	0	863	660			11.1	8	29+	12	4	15	5.7	
TALKEETNA	105			-9.9	-20.2	-15.1	-2.3	[illegible]	17	-37.2	8+	0	31			31	-12	7	10		607	584			[illegible]	2	13					
UNALAKLEET	6																	4				152			[illegible]	6	11					
VALDEZ	7			-4.5	-9.1	-6.8	0.1	4.4	19+	-21.1	10	0	30			162	25		15		1136				13.4	12	5	11	2	19	6.6	
YAKUTAT	9	1003.1	1004.1	-0.9	-7.7	-4.3	-1.3	5.6	21+	-22.2	11	0	24	-6.7	81	288	-39	55	23		1648	1168	2.6	10	15.4	10	19+	5	4	22	8.1	
ARIZONA																																
FLAGSTAFF	2135	786.4	1021.6	6.2	-9.4	-1.6	-0.3	14.2	4	-18.3	16	0	31	-9.4	60	50	-5	28	6	0	490	559	1.2	4	11.6	SW	30	18	5	8	3.5	81
PHOENIX	339	979.1	1018.4	19.3	6.0	12.7	1.3	27.2	9	1.1	31+	0	0	2.2	55	28	8	19	4	1	0	0	0.5	14	16.1	NE	18	19	7	5	3.3	88
TUCSON	789	929.2	1017.1	19.0	4.3	11.7	0.6	25.7	10+	-3.3	15	0	5	-1.7	47	13	-11	9	3	1	T	[illegible]	1.4	15	12.5	SW	31	17	8	6	3.3	84
WINSLOW	1492	855.4	1025.1	6.8	-6.1	0.4	-0.6	15.1	11	-12.2	18+	0	30	-5.5	73	17	2	14	4	0	145	25	0.7	22	16.1	19	13+	14	8	9	4.4	
YUMA	59	1011.2	1018.7	20.2	6.7	13.4	-0.1	27.3	9	1.7	31	0	0	0.0	45	11	3	6	4	1			2.0	35	11.6	N	15+	20	5	6	2.8	81
ARKANSAS																																
FORT SMITH	136	1004.1	1021.5	14.5	-0.7	4.9	-0.3	22.8	14	-11.7	18	0	19	0.0	74	93	2	33	8	1	183	102	[illegible]	36	12.5	SW	5	9	4	18	6.6	47
LITTLE ROCK	78	1011.9	1021.8	11.6	0.5	6.1	0.7	21.7	14	-10.0	18	0	19			76	-29	28	7	2	15	T	[illegible]	22	10.7	S	13	9	4	18	6.5	
CALIFORNIA																																
BAKERSFIELD	145	1004.4	1022.3	14.4	3.3	8.9	0.1	21.1	29+	-1.7	31	0	3	4.4	78	3	-15	2	2	0	0	0	[illegible]	4	7.6	3	10	19	6	4	3.1	
BISHOP	1252	878.1		15.7	-4.4	5.7	1.8	[illegible]	[illegible]	-11.7	15	0	30			0	-27				0	0			29.1		20	11	7	3	2.6	
BLUE CANYON	1609	841.9	1022.5	10.9	2.2	6.6	2.6	[illegible]	8	-7.8	14+	0	9	-5.0	50	63	-249	24	7		406	229	0.9	11	9.4	19	11					
EUREKA	13			11.6	5.4	8.6	-0.7	17.2	3	0.0	14	0	1			137	-30	46	11		0	0			17.4	[illegible]	12	5	9	16	7.2	29
FRESNO	100	1010.5	1022.6	12.8	0.3	6.6	-1.1	17.8	29+	-5.0	31	0	16	3.3	85	4	-40	2	4	0	0	0	0.1	34	13.4	NW	30	15	9	7	4.6	57
LONG BEACH	8	1018.1	1019.3	20.7	7.3	14.0	0.9	29.4	8	2.8	18+	0	0	6.7	68	5	-37	5	3	0	0	0	0.6	26	8.0	33	31	21	6	4	3.4	
LOS ANGELES	30	1015.2	1019.1	20.0	8.5	14.3	0.9	29.4	8	4.4	18	0	0	6.7	71	3	-42	3	1	0	0	0	0.4	27	15.6	N	17	20	5	5	3.4	
LOS ANGELES C	82			19.9	7.8	13.9	-0.6	28.3	8	2.8	15	0	0			8	-47	1	1		0	0			10.3	NW	31	13	5	3	2.5	73
MT SHASTA R	1080	898.1	1025.1	7.2	-1.9	2.7	0.7	17.2	9	-5.6	20+	0	25	-1.7	80	44	-115	12	12		193	76										
OAKLAND	2	1022.7	1022.8	13.5	5.7	9.6	-0.3	20.6	7	0.6	15	0	0	5.6	79	7	-84	5	3	0	0	0	0.7	32	13.4	31	13	15	9	7	3.8	
RED BLUFF	104	1010.2	1022.1	14.2	3.0	8.6	0.6	23.3	28	-1.1	15	0	5	2.8	76	26	-72	11	6	0	0	0	1.7	35	12.1	N	30	10	10	11	5.5	59
SACRAMENTO	6	1021.7	1022.7	13.8	3.0	8.6	0.9	20.6	4	-2.8	18	0	6	3.9	79	5	-75	3	5	0	0	0	0.5	32	11.6	NW	31	15	6	10	4.7	50
SANDBERG	1377	865.6		11.3	3.1	7.2	1.7	18.3	9	-5.6	31	0	9	-5.0	45	3	-46	3	1		15	15	3.6	3	19.7	35	27					
SAN DIEGO	4	1018.3	1019.1	20.8	9.8	15.3	0.1	26.1	8	5.6	16+	0	0	5.6	62	9	-35	7	3	0	0	0	0.8	29	7.6	NW	22+	16	11	4	3.6	87
SAN FRANCISCO	5	1021.7	1022.1	14.1	5.2	9.6	-0.2	18.9	7	1.1	18+	0	0	4.4	73	5	-46	4	3	0	0	0	0.3	31	12.5	29	13	17	5	9	4.1	
SAN FRANCISCO C	16			15.1	8.7	11.9	0.8	21.1	28	6.1	15	0	0			5	-102	3	3			0										
SANTA MARIA	72			18.8	2.1	10.4	-0.6	28.9	4	-4.4	15	0	10			4	-48	3	2		0	0						18	8	5	3.1	
STOCKTON	7	1021.7	1022.4	13.1	1.0	7.1	-0.5	18.9	4	-4.4	19+	0	10	3.3	83	3	-65	2	3	0	0	0	[illegible]	3	11.6	34	31	13	7	11	5.7	
COLORADO																																
ALAMOSA	2297	772.4		0.6	-17.4	-8.4	-1.3	5.6	9	-23.3	17+	0	31			[illegible]	-8	[illegible]	[illegible]		[illegible]	[illegible]						14	10	7	4.2	

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure		Temperature											Average relative humidity	Precipitation							Wind					No of days (sunrise to sunset)			Sky cover, tenths (sunrise to sunset)	Possible sunshine
												No of days							No. of days		Snow, Ice pellets				Fastest mile (1.6 kilometers)							
		Station	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min 0 C or lower	Average dew point		Total	Departure from normal	Greatest in 24 hours	25 mm or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10		
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m s		m s							%
COLORADO																																
COLORADO SPRINGS	1873	810.4	1019.2	8.9	-5.3	1.8	2.4	18.9	10+	-15.0	18+	0	27	-10.0	49	2	-5	1	4	0	23	25	2.1	1	16.1	31	1	11	6	14	5.4	
DENVER	1610	836.1	1017.6	10.3	-4.0	3.1	2.7	20.6	4	-17.2	18	0	24	-6.7	57	12	1	7	6	0	185	102	1.0	22	20.1	NW	27	9	8	14	5.8	70
GRAND JUNCTION	1476	856.8	1026.1	3.4	-8.6	-2.6	-1.2	10.0	13	-16.7	16	0	30	-7.2	75	13	-1	7	4	0	183	102	0.5	8	11.2	SW	13	12	8	11	5.1	78
PUEBLO	1428	855.7	1018.8	11.7	-6.7	2.5	1.9	23.3	10	-15.0	18+	0	30	-6.1	65	1	-6	1	3	0	23	25	0.9	32	20.6	W	1	11	9	11	5.0	77
CONNECTICUT																																
BRIDGEPORT	2	1020.3	1020.7	5.6	-1.7	1.9	0.9	15.6	1	-13.9	24	0	21	-1.7	79	114	27	37	14	0	218	203	2.8	35	13.9	35	22	4	10	17	7.3	
HARTFORD	52	1013.9	1020.8	2.6	-6.6	-1.9	0.2	17.2	15	-21.1	24	0	28	-7.8	66	109	6	36	13	0	340	254	2.3	33	13.0	NW	18	4	10	17	7.2	44
DELAWARE																																
WILMINGTON	23	1018.3	1021.4	7.0	-2.4	2.3	0.8	17.8	15	-9.4	24+	0	25	-3.3	65	76	-8	31	11	0	8	T	1.4	33	12.5	5	31	3	10	18	7.5	
DIST.OF COLUMBIA																																
WASHINGTON DULLES	88	1009.5	1021.6	5.7	-4.4	0.7	-0.4	20.0	6	-10.6	24+	0	27	-3.9	75	102	14	48	11	0	23	25	1.5	29	11.2	29	18	5	9	17	7.0	
WASHINGTON NATIONAL	3	1019.3	1021.5	9.0	0.4	4.7	1.7	20.0	15	-8.3	19	0	14	-2.2	62	103	25	43	10	0	10	T	1.3	33	14.3	NW	18	6	9	16	7.0	40
FLORIDA																																
APALACHICOLA U	6	1021.0	1021.7	17.6	6.3	11.9	-0.9	24.4	16	-4.4	19	0	6	7.2	76	152	68	95	8	4	0	0	1.2	5	11.6	NW	25	15	7	9	4.5	65
DAYTONA BEACH	9	1020.0	1021.3	21.0	8.5	14.8	-0.6	27.2	1	-1.7	19	0	3	10.0	76	21	-29	8	8	0	0	0	0.4	31	10.7	15	25	14	8	9	4.5	
FORT MYERS	5	1020.7	1020.8	23.3	11.9	17.6	-0.6	27.8	30+	2.8	22	0	0	11.7	72	18	-15	10	5	1	0	0	1.7	5	10.3	14	25	17	8	6	4.0	
JACKSONVILLE	8	1021.0	1022.0	18.7	4.3	11.5	-1.5	25.0	14+	-5.0	19	0	10	7.2	78	45	-20	17	12	2	0	0	0.7	30	13.0	SW	31	14	8	9	4.6	60
KEY WEST	1	1018.6	1019.5	24.6	19.2	21.9	-0.1	26.7	31+	12.2	24	0	0	16.1	70	48	10	34	10	0	0	0	3.9	6	13.0	E	13	11	15	5	4.3	86
LAKELAND J	65			21.8	10.2	16.0	-0.7	28.3	1	-1.1	22	0	2			18	-36	7	7		0	0						12	11	8	4.6	78
MIAMI	2	1020.3	1020.4	24.3	16.7	20.6	0.4	27.8	31+	5.6	22	0	0	13.9	67	11	-30	8	5	0	0	0	2.1	5	10.7	9	6	10	17	4	4.6	
ORLANDO/MC COY AFB	29	1018.0	1021.6	22.2	9.1	15.7	-0.7	27.8	1	0.0	22+	0	2	10.6	76	13	-35	8	5	0	0	0	0.9	35	11.6	15	25	11	10	10	4.9	
PENSACOLA	34	1017.6	1022.0	16.8	6.1	11.5	-0.6	25.6	16	-3.9	19	0	5	6.7	75	81	-38	26	8	0	0	0	1.6	3	14.3	24	25	13	8	10	5.1	
TALLAHASSEE	17	1019.6	1022.1	18.4	3.2	10.8	-0.9	25.6	14	-5.6	24	0	15	5.6	75	199	92	110	11	1	0	0	0.4	35	12.5	16	25	13	10	8	4.9	
TAMPA	6	1021.0	1021.3	21.9	9.3	15.7	-0.8	27.2	6	-1.1	19	0	1	10.0	70	22	-34	10	7	3	0	0	1.3	6	9.4	15	25	15	8	8	4.5	68
WEST PALM BEACH	5	1020.0	1020.6	23.8	14.9	19.4	0.1	28.3	31	2.8	22	0	0	13.3	70	32	-24	19	8	1	0	0	1.7	7	11.2	22	25+	12	11	8	5.2	
GEORGIA																																
ATHENS	244	991.9	1021.3	12.4	1.3	6.9	0.2	21.7	14	-10.0	19	0	13	1.1	70	70	-40	17	10	0	0	0	0.9	30	10.7	25	31	13	3	15	5.7	
ATLANTA	308	984.1	1021.6	11.6	1.0	6.3	-0.1	21.7	6	-10.6	19	0	14	-0.6	65	85	-22	35	10	1	0	0	0.9	32	21.9	SW	31	12	3	16	6.0	54
AUGUSTA	41	1016.6	1021.8	15.7	1.4	8.6	0.6	25.0	14	-8.3	19	0	14	3.3	76	116	29	26	10	0	0	0	0.7	29	13.0	25	31	11	7	13	5.5	
COLUMBUS	117	1007.8		15.1	2.2	8.7	-0.1	24.4	15	-7.8	19	0	13	2.8	72	90	-35	31	9	0	0	0	0.9	34	8.9	27	31+	11	6	14	5.6	
MACON	108	1008.8	1022.0	15.4	1.7	8.6	-0.5	23.9	15	-9.4	19	0	14	2.8	72	99	-10	28	10	0	0	0	0.9	31	17.4	W	31	12	6	13	5.3	52
ROME	194			12.2	-0.2	6.1	0.5	22.2	15+	-11.1	19	0	19			83	-43	36	7		0	0										
SAVANNAH	14	1020.0	1021.9	17.0	3.6	10.3	0.1	23.9	14+	-7.2	19	0	12	5.0	74	81	-2	25	11	2	0	0	0.8	30	15.6	W	31	12	8	11	5.1	59
HAWAII																																
HILO	8	1015.6	1016.7	26.7	18.0	22.3	0.3	27.8	24+	13.9	18	0	0	17.8	78	215	-185	126	17	2	0	0	1.3	17	8.5	SE	24	7	10	14	6.4	43
HONOLULU	2	1015.9	1016.2	27.3	18.3	22.8	-0.4	28.9	6+	13.3	9	0	0	17.8	75	15	-78	10	7	2	0	0	1.9	5	9.8	NE	16+	8	12	11	5.8	56
KAHULUI	15	1013.5	1015.8	27.3	17.4	22.4	-0.2	28.9	2	14.4	21+	0	0			T	-72	T	1	0	0	0	2.1	6	11.6	NE	20+	12	7	12	5.5	70
LIHUE	31	1011.5	1016.9	26.2	19.9	23.1	0.6	27.8	22	15.0	11	0	0	17.8	74	73	-88	57	8	1	0	0	1.0	5	8.5	E	16	8	15	8	5.4	63
IDAHO																																
BOISE	865	921.8	1025.4	2.9	-3.6	-0.3	-0.4	13.9	4	-16.7	14	0	22	-3.9	80	32	-2	12	12	0	107	25	0.0	16	13.4	SW	30+	4	5	22	8.1	30
LEWISTON	431			6.1	-0.7	2.7	1.2	16.1	2	-7.8	14	0	20			53	21	25	11		36	25			21.5Y		29	5	4	22	7.8	
POCATELLO	1358	866.9	1023.9	4.5	-4.0	0.3	3.1	13.3	3	-13.3	14	0	24	-3.9	76	15	-10	4	10	0	79	127	2.6	23	15.2	SW	30	4	9	18	7.5	45
ILLINOIS																																
CAIRO U	96			8.3	1.9	5.1	1.2	19.4	15+	-10.6	18	0	12			110	10	33	11		10	T			11.6	S	13					30
CHICAGO O HARE	201	994.9	1020.1	3.4	-4.0	-0.3	2.4	17.8	14+	-15.6	18	0	26	-3.9	76	77	36	39	14	2	173	76	1.0	27	14.3	19	14	2	5	24	8.3	
CHICAGO MIDWAY	185	997.6	1020.9	3.1	-3.6	-0.3	1.7	19.4	13	-16.7	18	0	26	-4.4	74	64	11	25	14	3	297	127	0.8	25	14.3	S	14	3	3	25	8.3	19
MOLINE	177	998.6	1020.9	2.8	-4.8	-0.9	2.1	18.9	5	-17.8	18	0	27	-5.0	73	25	-20	11	8	1	64	51	0.5	28	19.2	SW	14	5	4	22	7.8	21
PEORIA	199	996.3	1021.1	2.6	-4.6	-1.0	1.2	18.9	14	-17.8	18	0	28	-3.9	82	52	4	30	10	1	36	25	0.3	23	17.0	W	14	3	4	24	8.2	38
ROCKFORD	221	992.9	1020.9	1.1	-6.7	-2.8	1.2	17.2	5	-18.9	18	0	28	-6.1	77	50	6	30	8	1	201	152	0.4	32	12.5	27	1	4	3	24	8.3	
SPRINGFIELD	179	998.3	1021.2	4.4	-2.9	0.8	1.6	20.0	14	-15.0	18	0	25	-2.2	82	49	0	22	10	1	109	51	0.8	22	15.6	S	14	4	7	20	7.7	34
INDIANA																																
EVANSVILLE	116	1007.1	1021.5	6.6	-1.1	2.7	0.9	20.6	14	-11.7	18	0	21	-0.6	79	108	24	33	11	0	33	25	0.7	23	13.0	NW	15	4	8	19	7.5	30
FORT WAYNE	241	989.5	1020.5	3.1	-3.8	-0.3	1.6	18.9	14	-12.8	18	0	24	-3.9	76	72	17	35	13	2	254	152	0.9	27	13.0	W	1	2	9	20	8.0	35

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation ground	Pressure: Station	Pressure: Sea level	Temperature: Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days: Max 32.2 °C or above	No. of days: Min 0 C or lower	Average dew point	Average relative humidity	Precipitation: Total	Departure from normal	Greatest in 24 hours	No. of days: 25 mm or more	No. of days: With thunderstorms	Snow, Ice pellets: Total	Maximum depth on ground	Wind: Resultant speed	Resultant direction	Fastest mile (1.6 kilometers): Speed	Direction	Date	No. of days (sunrise to sunset): Clear 0-3	Partly cloudy 4-7	Cloudy 8-10	Sky cover tenths (sunrise to sunset)	Possible sunshine
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
INDIANA																																
INDIANAPOLIS	241	991.2	1021.2	4.2	-3.3	0.4	1.1	19.4	14	-13.9	18	0	26	-1.7	85	94	25	37	13	1	206	102	0.8	24	14.8	SW	14	4	3	24	8.0	31
SOUTH BEND	236	991.2	1020.2	4.0	-3.2	0.4	2.5	19.4	14	-12.8	21+	0	25	-3.3	78	94	32	33	16	1	356	102	1.1	25	13.4	23	14+	2	10	19	8.2	
IOWA																																
BURLINGTON	211			2.8	-4.9	-1.1	1.4	17.8	13	-18.3	18	0	28	-3.9	80	68	27	53	5	1	64	25	0.5	29	14.3	27	14	7	2	22	7.7	
DES MOINES	286	984.8	1020.8	3.4	-5.8	-1.2	2.7	19.4	5	-19.4	18	0	30	-5.6	75	12	-15	11	5	2	13	T	0.0	28	16.1	W	14	8	4	19	7.2	40
DUBUQUE	322			0.6	-7.1	-3.2	1.8	16.1	5	-20.0	18	0	30			8	-41	4	5		25	25										
SIOUX CITY	334	979.3	1020.9	0.3	-7.8	-3.7	1.0	8.3	10	-21.7	18	0	31	-6.7	81	7	-12	6	5	1	8	76	0.4	8	15.6	N	5	4	11	16	7.2	40
WATERLOO	265	986.2	1021.2	0.6	-8.1	-3.7	1.9	16.1	5	-21.1	18	0	30	-8.3	72	10	-20	11	3	1	T	T	0.6	6	13.0	35	20	5	7	19	7.5	
KANSAS																																
CONCORDIA	449	965.5	1021.0	6.3	-4.6	0.9	1.8	20.6	10	-17.2	18	0	27	-3.9	75	14	-6	13	3	1	T	T	0.5	25	19.7	SW	13	9	8	14	6.1	55
DODGE CITY	787	926.2	1019.7	9.6	-3.4	3.1	2.3	20.0	10	-12.8	17	0	26	-3.9	69	7	-6	5	3	1	5	T	1.1	28	18.8	N	5	12	9	10	4.9	67
GOODLAND	1114	888.6	1018.5	7.4	-3.7	1.9	2.9	21.7	10	-15.6	17	0	26	-3.9	71	2	-9	1	3	1	56	102	2.4	28	16.5	33	27	14	6	11	4.9	
TOPEKA	267	987.8	1020.8	6.4	-3.7	1.4	1.5	19.4	5	-15.6	18	0	27	-2.2	79	28	-10	19	8	1	69	25	0.3	23	17.4	SW	14	10	7	14	6.0	45
WICHITA	403	971.7	1020.3	8.2	-3.8	2.2	0.8	22.2	5	-15.0	18	0	26	-2.2	76	12	-16	10	4	1	T	T	0.2	28	16.1	SW	13	11	7	13	5.6	56
KENTUCKY																																
COVINGTON	265	988.2	1020.7	7.3	-1.4	3.0	2.1	20.6	14	-11.7	18	0	23	-2.2	70	85	13	24	12	[illegible]	43	25	1.4	24	11.6	22	15	4	7	20	7.8	
LEXINGTON	294	985.1	1021.4	6.1	-1.8	2.1	0.2	18.3	5	-13.3	19	0	21	-1.7	76	108	16	26	14	0	33	T	1.4	21	10.7	24	26	3	7	21	8.0	
LOUISVILLE	145	1003.1	1021.1	8.1	-0.4	3.8	1.8	22.9	14	-11.1	19	0	17	-1.1	73	124	39	40	10	[illegible]	18	T	1.2	24	11.6	SW	15	5	5	21	7.6	38
LOUISIANA																																
ALEXANDRIA	28	[illegible]	1021.8	15.1	3.5	9.3	-0.3	26.1	15	-7.8	19	0	9	4.4	75	56	-54	35	7	0	T	T	0.3	7	8.4	9	25+	10	8	13	6.[illegible]	
BATON ROUGE	20	1019.3	1022.0	16.4	4.7	10.6	-1.1	26.7	5	-6.7	19	0	8	5.0	74	60	-68	34	9	2	0	0	0.8	5	8.4	24	25+	10	8	13	5.8	
LAKE CHARLES	3	1020.3	1021.5	16.4	5.6	11.0	-1.4	25.6	15+	-3.9	19	0	2	6.7	78	53	-92	38	8	3	0	0	0.9	7	12.5	20	25+	10	7	14	5.8	
NEW ORLEANS	1	1020.7	1021.6	16.2	5.9	11.1	-1.6	26.1	6	-2.8	19	0	6	7.8	[illegible]	97	-34	29	6	1	0	0	1.0	4	9.5	10	19	12	5	14	6.7	52
SHREVEPORT	77	1011.7	1021.3	15.9	3.3	9.6	0.1	27.2	14	-6.7	19	0	9	3.3	71	48	-59	[illegible]	5	1	0	0	0.4	17	9.4	14	26	6	10	13	6.1	51
MAINE																																
CARIBOU	190	995.5		-6.2	-17.3	-11.7	-2.9	8.9	1	-32.2	25	0	31			103	36	31	16		935	686						8	7	16	6.7	
PORTLAND	13	1018.0	1020.3	1.1	-9.7	-4.3	-0.8	13.9	1	-28.9	20	0	29	-8.9	71	207	104	71	15	0	643	406	2.5	34	12.5	SW	26+	6	7	18	6.6	52
MARYLAND																																
BALTIMORE	45	1015.9	1021.8	7.6	-1.8	2.9	1.1	19.4	15+	-7.8	19	0	24	-2.8	68	117	34	[illegible]	9	0	18	T	1.5	31	13.4	NW	18	2	12	17	7.6	45
MASSACHUSETTS																																
BLUE HILL OBS R	192			3.8	-5.4	-0.8	0.4	17.8	15	-18.3	24	0	27			177	57	46	15		607	508			28.6	S	25					48
BOSTON	5	1019.3	1020.3	5.7	-3.1	1.3	0.8	18.9	15	-15.6	24	0	21	-5.6	62	122	14	38	15	0	490	356	2.8	31	15.6	NW	19	8	8	15	6.3	54
WORCESTER	301	981.4		1.9	-7.1	-2.6	0.1	16.1	15	-19.4	24	0	28			117	17	39	13	0	460	406	2.3	31	13.4	32	23+	5	9	16	6.8	
MICHIGAN																																
ALPENA	210	993.9	1020.1	-0.2	-8.9	-4.6	0.2	16.1	14	-20.0	21	0	30	-6.1	87	24	-23	8	12	0	406	152	1.[illegible]	25	12.[illegible]	SW	14	2	8	21	9.0	35
DETROIT	189			3.0	-3.7	-0.3	1.0	18.9	14	-12.8	29	0	27	-4.4	75					0			1.1	26	13.4	22	14					
DETROIT METRO	193	995.3	1020.3	2.8	-6.1	-1.6	0.3	18.3	14	-20.6	29	0	28	-5.0	78	76	19	17	20	0	503	203	1.2	29	17.[illegible]	SW	1	3	8	20	7.9	33
FLINT	235	991.7	1019.9	2.2	-5.8	-1.8	1.1	17.2	14	-21.7	22	0	28	-5.6	76	102	60	39	18	1	536	229	0.7	24	13.4	28	18	3	4	24	8.3	
GRAND RAPIDS	239	989.8	1020.2	1.3	-6.6	-2.6	-0.1	16.1	5	-18.3	22+	0	30	-5.6	79	102	47	35	20	2	592	229	0.4	24	15.6	W	5	2	5	24	8.7	16
HOUGHTON LAKE	350	976.3	1019.9	-0.9	-8.2	-4.6	0.7	12.8	14	-22.2	21	0	30	-7.2	8[illegible]	34	-12	8	15	1	371	152	0.7	27	11.[illegible]	27	18	3	4	24	8.4	
LANSING	256	987.1	1020.1	1.6	-6.3	-2.3	0.4	15.6	14+	-23.3	22+	0	28	-6.7	71	84	34	25	18	[illegible]	513	203	0.9	23	13.9	SW	14	4	4	23	8.2	20
MARQUETTE	206			-2.1	-7.8	-4.9	-0.2	9.4	5	-18.9	18	0	31			47	-3	28	14		385	152			16.[illegible]	SW	5	2	5	24	8.4	32
MUSKEGON	191	996.6	1020.5	2.2	-4.0	-0.9	1.1	15.6	13	-15.0	21	0	28	-5.0	75	71	9	[illegible]	19	2	765	203	0.3	28	13.4	19	14	2	1	28	9.1	
SAULT STE MARIE	220	992.7	1019.8	-2.5	-11.1	-6.8	-0.2	11.7	14	-26.1	19+	0	31	-9.4	81	41	-19	22	17	0	287	152	0.[illegible]	7	15.[illegible]	SE	13+	4	2	25	8.4	30
MINNESOTA																																
DULUTH	435	966.5	1020.7	-7.1	-15.4	-11.2	-1.4	1.1	5	-29.4	18	0	31	-14.4	74	16	-19	8	10	0	198	254	1.4	26	13.9	NW	5	7	2	22	7.7	31
INTERNATIONAL FALLS	359	974.9	1020.8	-8.3	-19.6	-13.9	-1.0	0.6	5+	-35.0	15	0	31	-16.7	78	22	-3	9	11	0	376	381	1.[illegible]	22	9.4	10	12	5	3	23	7.6	
MINNEAPOLIS	254	989.5	1021.3	-2.2	-9.7	-5.9	1.5	7.2	5+	-25.0	18	0	30	-10.6	70	20	-3	17	4	1	142	152	[illegible]	[illegible]	12.1	N	5	3	4	24	8.3	27
ROCHESTER	395	970.9	1020.7	-1.2	-9.4	-5.3	2.0	11.7	5	-22.2	18	0	30	-8.3	78	31	11	28	5	1	48	25	0.8	24	12.[illegible]	36	20+	4	5	22	8.0	
ST CLOUD	313	982.4	1021.8	-4.3	-14.1	-9.2	-0.2	3.9	4	-28.3	18	0	31			7	-14	3	5		79	203						4	4	23	7.9	
MISSISSIPPI																																
JACKSON	94	1019.8	1022.[illegible]	14.4	2.7	8.6	-0.8	26.1	14	[illegible]	19	0	14	5.0	82	109	-19	48	8	0	T	[illegible]	0.[illegible]	14	10.3	SE	29	8	11	12	6.8	[illegible]

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure		Temperature											Average relative humidity	Precipitation							Wind					No. of days (sunrise to sunset)			Sky cover, tenths (sunrise to sunset)	Possible sunshine
												No. of days							No of days		Snow, Ice pellets				Fastest mile (1.6 kilometers)							
		Station Ø	Sea level	Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	Max 32.2 °C or above	Min 0 C or lower	Average dew point		Total	Departure from normal	Greatest in 24 hours	.25 mm or more	With thunderstorms	Total	Maximum depth on ground	Resultant speed	Resultant direction	Speed	Direction	Date	Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10		
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m s		m/s							%
MISSISSIPPI																																
MERIDIAN	88	1011.2	1022.4	14.1	1.1	7.6	-1.2	24.4	15	-9.4	19	0	17	2.8	79	103	-39	42	9	0	T	0	0.4	32	8.9	25	25+	7	12	12	6.0	
MISSOURI																																
COLUMBIA REGIONAL	270	987.8	1021.0	6.2	-2.7	1.8	1.3	21.1	14	-14.4	18	0	26	-3.3	72	63	18	32	9	1	107	51	0.4	20	16.5	SW	14	8	1	22	7.3	38
KANSAS CITY	309	982.4	1020.2	5.6	-3.3	1.2	1.0	18.3	13+	-16.7	18	0	26	-3.3	73	52	13	42	6	2	71	51	0.6	23	18.3	SW	14	10	5	16	6.4	41
ST JOSEPH	247			5.3	-4.0	0.7	1.4	18.3	5	-15.6	18	0	29																			
ST LOUIS	163	1000.7	1021.6	6.2	-2.3	1.9	0.5	21.1	14+	-13.9	18	0	25	-1.1	82	58	6	30	9	0	99	76	0.4	25	14.3	S	14	7	7	17	7.0	38
SPRINGFIELD	386	973.9	1020.4	8.8	-1.5	3.7	1.4	20.6	14	-14.4	18	0	21	-1.1	74	50	-13	19	11	1	86	51	0.8	18	12.1	S	14	8	5	18	6.7	42
MONTANA																																
BILLINGS	1087	891.3	1018.8	3.1	-5.9	-1.4	1.4	15.0	9	-23.3	17	0	27	-7.2	67	50	33	17	8	0	508	356	5.1	24	21.9	W	1	6	6	19	6.8	43
GLASGOW	696	933.3	1018.9	-2.0	-13.1	-7.5	0.8	10.0	4	-30.0	17	0	31	-11.1	77	10	2	3	8	0	119	152	0.8	6	13.0	31	15	6	7	18	6.9	
GREAT FALLS	1116	887.6	1018.7	3.4	-7.3	-1.9	1.2	15.0	9	-22.2	14	0	26	-7.2	65	14	-4	4	9	0	145	152	6.3	23	21.0	SW	4	4	4	23	7.9	34
HAVRE	788	922.8	1018.0	2.2	-10.3	-4.1	3.6	14.4	9	-31.1	14	0	28	-8.9	71	15	4	4	8	0	188	203	2.4	24	15.6	SW	3	5	6	20	7.2	32
HELENA	1167	882.5	1022.1	1.3	-7.9	-3.3	1.5	16.7	3	-21.1	17	0	27	-8.3	69	8	-7	3	9	0	99	102	2.1	27	16.5	SW	4	5	4	22	7.8	36
KALISPELL	904	914.3	1022.3	1.3	-6.5	-2.6	2.0	12.8	9	-25.0	16	0	28	-6.7	72	30	-7	11	16	0	234	203	1.0	19	10.3	20	4	3	2	26	8.7	
MILES CITY	801	922.1	1018.7	-0.2	-10.2	-5.2	0.3	8.9	4	-27.2	17	0	29	-7.2	83	14	2		8	0	122		0.9	27								
MISSOULA	972	907.9	1023.3	0.6	-7.6	-3.5	0.6	15.0	3	-18.3	16	0	29	-5.0	89	22	-7	7	13	0	155	178	0.7	29	10.3	N	15	2	5	24	8.4	24
NEBRASKA																																
GRAND ISLAND	561	951.6	1020.1	1.9	-7.2	-2.6	0.2	9.4	10	-19.4	18+	0	30	-5.6	79	4	-10	2	6	1	30	203	1.0	30	16.5	36	5	7	8	16	6.6	
LINCOLN	359	976.0	1020.3	4.2	-6.5	-1.2	1.4	15.6	5	-20.6	18	0	30	-5.0	78	17	-2	13	5	2	33	25	0.5	31	14.8	N	5	8	8	15	6.6	47
NORFOLK	471			0.2	-8.4	-4.1	0.3	6.7	4	-22.8	18	0	31			5	-11	2	7		18	254						5	12	14	6.9	
NORTH PLATTE	846	919.1	1020.3	2.7	-9.0	-3.1	-0.2	12.2	10	-19.4	17	0	31	-7.8	72	6	-5	3	6	0	30	203	1.3	32	14.3	N	5	7	8	16	6.4	58
OMAHA	299	983.4	1020.1	4.4	-5.7	-0.6	1.6	17.8	5	-19.4	18	0	30	-4.4	78	12	-10	8	7	2	15	25	0.1	2	17.0	N	5	5	12	14	7.0	49
SCOTTSBLUFF	1206	879.8	1019.3	6.4	-6.6	-0.1	2.4	21.7	4	-23.3	17	0	28	-6.7	65	30	20	23	6	0	394	254	2.8	31	14.8	3	31	10	3	18	6.4	
VALENTINE	789			2.9	-10.0	-3.6	0.7	13.3	4	-26.1	17	0	31			6	-2	4	5		36	178			14.8	N	5	5	11	15	6.7	53
NEVADA																																
ELKO	1539	849.3	1025.2	4.8	-7.7	-1.4	1.9	12.2	7	-18.3	14	0	31	-6.1	74	6	-22	3	3	0	64	25	0.5	27	7.6	30	13	11	4	16	6.0	
ELY	1906	812.1	1024.2	7.4	-11.3	-1.9	1.3	17.8	9	-22.8	14	0	31	-7.8	71	10	-8	5	6	0	157	102	1.5	20	10.7	NW	30	8	13	10	5.4	79
LAS VEGAS	659	943.8	1021.7	16.1	1.9	9.0	1.7	23.3	8	-5.0	15	0	8	-4.4	42	1	-8	1	1	0	0	0	1.6	28	17.0	N	14	20	8	3	2.7	92
RENO	1342	871.0	1024.5	10.6	-8.6	1.0	0.4	19.4	3	-15.0	15+	0	31	-5.6	67	T	-27	T	1	0	T	T	0.4	35	13.9	S	11	12	12	7	4.5	67
WINNEMUCCA	1311	873.7	1024.5	8.9	-5.8	1.6	2.4	16.1	4+	-18.9	14	0	27	-6.1	60	7	-17	2	5	0	104	76	0.7	19	10.3	SW	4	10	7	14	5.6	56
NEW HAMPSHIRE																																
CONCORD	104	1007.5	1020.7	0.3	-11.6	-5.6	-1.6	15.6	1	-27.8	25	0	30	-10.6	67	79	-4	34	11	0	638	356	2.1	31	13.0	NW	7	6	9	16	6.7	41
MT WASHINGTON OBS	1909			-7.5	-18.1	-12.8	0.1	3.3	6	-35.6	19	0	31			266	88	62	20	0	1562	254			53.2Y	W	19	5	6	20	7.5	30
NEW JERSEY																																
ATLANTIC CITY	20	1018.6	1021.1	7.0	-3.1	1.9	0.2	16.1	15	-12.8	19	0	23	-2.2	73	64	-38	28	11	0	20	25	1.5	31	10.7	24	15	4	11	16	7.3	38
ATLANTIC CITY U	3			7.2	0.0	3.6	0.4	16.1	15	-7.2	24	0	19			65	-26	23	12						13.0	NE	31+					
NEWARK	2	1020.0	1021.0	5.9	-2.2	1.9	0.5	17.8	1	-10.6	24	0	21	-3.3	70	74	-14	41	11	0	61	51	2.3	32	13.0	32	1	5	6	20	7.6	
TRENTON U	17			6.4	-1.2	2.6	1.0	17.2	15+	-8.9	24	0	20			70	-13	35	12		48	51			13.0	NW	1	5	7	19	7.3	39
NEW MEXICO																																
ALBUQUERQUE	1619	840.5	1021.5	9.5	-5.5	2.0	-0.3	17.2	11	-10.6	15	0	30	-6.7	59	7	-6	6	3	0	74	25	1.3	35	14.8	W	13	13	11	7	4.2	74
CLAYTON	1515			11.3	-3.9	3.7	2.0	23.3	10	-12.2	18+	0	27			2	-6	1	2		58	51										
ROSWELL	1112	892.0	1018.5	15.4	-2.8	6.3	2.3	23.9	5	-10.0	18	0	26	-6.1	47	1	-11	1	2	0	8	T	0.6	26	16.5	SW	31+	16	8	7	4.1	69
NEW YORK																																
ALBANY	84	1010.8	1022.1	1.8	-8.4	-3.3	0.1	15.0	1	-23.9	25+	0	27	-7.8	73	71	-4	18	14	0	417	279	1.6	30	14.8	NW	18	6	6	19	7.3	42
BINGHAMTON	485	960.0	1020.9	0.7	-7.0	-3.2	0.5	13.9	1	-19.4	24	0	29	-6.1	80	82	12	33	18	0	465	305	1.3	25	12.5	W	18+	1	9	21	8.5	31
BUFFALO	215	993.6	1020.1	1.3	-5.4	-2.1	0.2	15.6	14	-20.0	24	0	30	-5.0	82	116	40	23	21	1	693	305	0.8	26	13.9	S	14+	0	8	23	8.8	24
NEW YORK U	40	1017.6	1020.9	5.7	-1.4	2.2	0.2	16.1	1	-8.9	24	0	21			92	3	46	12	0	58	51	2.0	36	9.4	NNW	22					51
NEW YORK KENNEDY	4	1020.3	1021.0	6.1	-1.1	2.6	0.9	15.0	15	-10.0	25	0	19	-3.3	68	77	-14	36	13	0	30	25	2.7	34	15.6	35	22	3	13	15	7.4	
NEW YORK LA GUARDIA	3	1020.3	1021.3	6.2	-0.5	2.8	0.8	16.7	15	-8.9	24	0	17	-4.4	62	94	2	46	14	0	76	51	2.3	33	15.2	N	22	3	9	19	7.5	
ROCHESTER	167	1000.0	1021.0	1.5	-6.2	-2.3	-0.3	15.6	15	-20.0	24	0	30	-5.6	78	96	36	32	19	0	719	254	1.2	24	13.4	SW	1	0	6	25	8.8	21
SYRACUSE	125	1005.4	1021.1	2.1	-7.0	-2.4	-0.3	16.7	15	-22.2	24	0	29	-6.1	76	104	26	19	16	0	686	305	0.9	27	13.4	W	18	4	1	26	8.4	26
NORTH CAROLINA																																
ASHEVILLE	652	943.4	1021.6	9.9	-2.6	3.7	-0.1	20.6	6+	-13.3	19	0	25	-1.1	79	113	22	46	9	0	10	T	1.3	34	13.4	34	21	11	7	13	5.4	55

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation ground	Pressure: Station	Pressure: Sea level	Temperature: Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days: Max 32.2 °C or above	No. of days: Min 0 C or lower	Average dew point	Average relative humidity	Precipitation: Total	Departure from normal	Greatest in 24 hours	No. of days: 25 mm or more	No. of days: With thunderstorms	Snow, Ice pellets: Total	Snow, Ice pellets: Maximum depth on ground	Wind: Resultant speed	Resultant direction	Fastest mile (1.6 kilometers): Speed	Direction	Date	No. of days sunrise to sunset: Clear 0-3	Partly cloudy 4-7	Cloudy 8-10	Sky cover tenths sunrise to sunset	Possible sunshine
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
NORTH CAROLINA																																
CAPE HATTERAS R	2	[illegible]	1021.8	14.2	4.3	9.3	0.6	22.2	6+	-6.7	20	0	6	5.1	[illegible]	124	8	[illegible]	11	1	0		1.4	34	11.2	19	26	12	3	16	5.5	[illegible]
CHARLOTTE	224	993.6	1021.8	11.4	0.1	5.8	-0.1	21.1	6	-10.6	19	0	17	-1.1	65	97	19	[illegible]	10	0	T	T	0.3	32	[illegible]	36	31	12	5	14	5.6	57
GREENSBORO	273	989.2	1021.7	10.3	-1.4	4.5	0.3	20.6	6	-11.7	19	0	21	-1.1	72	97	17	33	10	0	T	T	0.8	29	11.6	36	18	11	5	15	6.8	58
RALEIGH	132	1005.4	1022.7	11.8	-0.7	5.6	0.4	22.2	15+	-12.2	19	0	18	-1.1	67	103	24	35	10	0	T	T	0.8	29	[illegible]	33	15	12	7	12	6.6	54
WILMINGTON	9	[illegible]	1021.6	16.2	3.1	9.7	1.1	[illegible]	6	-6.7	19	0	9	3.9	71	132	47	47	12	1	0	0	1.0	33	14.3	36	31	13	4	14	5.3	[illegible]
NORTH DAKOTA																																
BISMARCK	502	956.7	1019.1	-0.7	-13.7	-7.2	1.9	9.4	4	-32.8	17	0	31	-9.4	81	19	6	9	8	0	218	[illegible]	0.5	32	15.6	[illegible]	19	6	9	16	6.9	[illegible]
FARGO	273	986.1	1020.6	-5.0	-14.1	-9.6	1.0	7.8	4	-27.8	18	0	31	-13.3	75	5	-11	2	5	0	48	51	0.7	15	[illegible]	[illegible]	15	3	6	22	8.1	[illegible]
WILLISTON	579	947.5	1019.2	-2.8	-15.3	-9.1	0.2	6.1	9+	-32.8	17	0	31	-11.1	81	30	18	[illegible]	10	0	[illegible]	[illegible]	1.4	28	[illegible]	[illegible]	31	7	[illegible]	16	6.6	43
OHIO																																
AKRON	368	974.6	[illegible]	4.9	-3.4	0.8	2.2	17.2	14	-13.3	19+	0	25	-3.9	72	73	12	17	14		[illegible]	51	1.3	24	12.1	19	15	3	4	24	8.2	
CINCINNATI ABBE OB	232			6.8	[illegible]	2.9	1.6	19.4	14	-11.7	18	0	19			83	9	[illegible]	12						9.8	[illegible]	15					34
CLEVELAND	237	990.5	1020.5	3.3	-3.3	0.0	0.9	17.2	14+	-13.3	19	0	25	-3.3	78	96	36	[illegible]	17		[illegible]	[illegible]	1.7	24	[illegible]	[illegible]	15+	1	5	25	8.4	[illegible]
COLUMBUS	247	990.2	[illegible]	4.3	-2.7	0.8	1.6	17.2	14+	-13.3	22	0	24	-3.9	72	76	16	17	12		74	25	1.1	24	12.5	[illegible]	14	2	11	[illegible]	[illegible]	34
DAYTON	303	983.7	1020.8	4.4	-2.4	1.0	1.6	17.8	14	-11.7	19+	0	25	-2.8	76	90	31	35	15		[illegible]	25	1.3	25	15.2	[illegible]	14	3	[illegible]	[illegible]	7.6	34
MANSFIELD	395			2.5	-4.8	-1.2	-0.5	15.6	15+	-16.1	24	0	25			74	19	[illegible]	12		[illegible]	51	1.7	23	13.4	[illegible]	15+	2	6	[illegible]	8.3	
TOLEDO	204	994.6	1020.7	2.4	-5.9	-1.7	0.5	18.3	14	-19.4	29	0	29	-4.4	81	85	[illegible]	[illegible]	18		[illegible]	178	[illegible]	28	[illegible]	[illegible]	[illegible]	1	6	[illegible]	8.4	22
YOUNGSTOWN	359	976.3	[illegible]	2.7	-4.4	-0.8	0.9	16.7	14	-14.4	19	0	27	-4.4	77	73	9	16	13		[illegible]	[illegible]	[illegible]	24	[illegible]	[illegible]	[illegible]	2	[illegible]	[illegible]	8.9	
OKLAHOMA																																
OKLAHOMA CITY	392	972.9	1020.5	12.3	-1.4	5.4	1.0	[illegible]	5+	-13.9	18	0	18	-1.7	66	33	1	17	8	1	[illegible]	25	0.1	2	16.5	[illegible]	3	14	3	14	5.6	54
TULSA	198	995.6	1020.7	10.2	-1.2	4.5	0.2	21.7	11+	-13.3	18	0	21	-0.6	73	77	36	26	8	1	33	T	0.8	19	13.4	5	5	11	7	13	5.5	49
OREGON																																
ASTORIA	2	1020.7	1021.4	10.2	3.9	7.1	1.1	15.0	26	-2.8	12	0	8	2.8	75	399	129	76	22	0	T	0	1.4	16	[illegible]	16	3	5	4	22	7.7	
BURNS	1265			4.8	-6.2	-0.7	1.6	16.1	2	-17.8	14	0	29			42	-2	[illegible]	11		[illegible]	[illegible]			[illegible]		26	7	9	[illegible]	6.5	
EUGENE	109	1009.5	1023.4	9.6	2.6	6.1	0.8	17.2	7	-5.0	12	0	11	3.9	88	181	-13	[illegible]	23	0	T	[illegible]	1.7	19	10.3	11	26+	1	6	24	8.8	
MEDFORD	396	976.3	1025.2	6.4	1.6	4.1	0.9	14.4	4	-3.9	21+	0	12	2.2	88	70	-24	[illegible]	15		[illegible]	[illegible]	0.4	35	[illegible]	16	26+	0	3	28	9.5	
PENDLETON	452	967.8	1022.9	9.2	1.2	4.7	2.7	19.4	2	-6.7	13	0	14	0.6	76	50	11	18	13	0	[illegible]	51	1.6	24	14.3	27	[illegible]	2	6	23	8.5	
PORTLAND	6	1021.0	1022.3	8.9	2.9	5.9	1.1	15.6	2	-3.3	18	0	10	3.3	86	170	16	41	21	0	T	T	1.7	17	14.8	[illegible]	26	4	4	23	7.9	[illegible]
SALEM	60	1015.2	1022.7	9.0	[illegible]	5.5	0.6	15.0	2	-6.7	21	0	12	3.3	87	154	[illegible]	55	21	0	18	[illegible]	2.3	18	13.4	[illegible]	4+	5	4	[illegible]	7.7	
SEXTON SUMMIT R	1169	887.9	1022.7	6.5	0.9	3.7	0.9	15.6	9+	-6.1	12	0	13	1.1	85	[illegible]	-41	39	18		[illegible]	[illegible]	2.6	17	[illegible]	11	25	9	[illegible]	[illegible]	6.8	
PACIFIC AREA																																
[illegible] TAGUAC R	110			29.0	22.3	25.7	-0.2	30.0	30	19.4	31	0	0			163	14	56	24		0	0			[illegible]	E	17+	1	23	7	6.6	[illegible]
JOHNSTON	2	1013.2	1013.9	27.1	[illegible]	25.2	-0.2	27.8	13+	21.1	10	0	0	20.0	74	13	[illegible]	[illegible]	[illegible]		0	0	[illegible]	8	[illegible]	[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]
KOROR R	29	1004.1		30.6	23.9	27.2	-0.2	32.2	30+	21.7	[illegible]	4	0			[illegible]	[illegible]	44	27	2	0	0	2.3	9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	34
KWAJALEIN	2	[illegible]		29.4	24.9	27.2	-0.3	[illegible]	21+	22.8	[illegible]	0	0			145	[illegible]	[illegible]	22				6.3	7	12.5						7.8	
MAJURO	3	[illegible]		28.7	[illegible]	26.4	-0.9	[illegible]	1	22.8	30+	0	0			354	53	[illegible]	26				5.1	8	[illegible]				9	[illegible]	8.1	32
PAGO PAGO	4	1009.8	[illegible]	29.6	23.1	26.3	-0.3	31.1	13	21.7	28+	0	0	22.8	81	359	-18	[illegible]	24	[illegible]			[illegible]	6	[illegible]						[illegible]	31
PONAPE R	37			29.7	[illegible]	25.4	-0.6	31.7	25+	20.6	31	0	0			847	442	[illegible]	31	1					[illegible]	NE					9.4	[illegible]
TRUK MOEN ISLAND	2	1008.1		29.9	24.7	27.3	[illegible]	31.1	29+	23.3	24+	0	0			254	[illegible]	32	25				[illegible]	7	[illegible]	NE	12				9.9	[illegible]
WAKE	3	1013.6	1013.9	28.2	22.7	25.4	-0.4	29.4	28+	20.0	8+	0	0	22.2	84	174	131	67	14	1			4.3	9	15.6	E	10+	15	8	7	4.4	67
YAP R	13	1006.4		[illegible]	23.1	26.6	-0.6	31.1	30+	21.1	21+	0	0			278	27	[illegible]	25				3.4	9	11.6		1	2	11	17	7.5	[illegible]
PENNSYLVANIA																																
ALLENTOWN	118	1007.1	1021.5	4.5	-3.7	0.4	1.1	16.1	1	-11.1	24+	0	24	-4.4	[illegible]	69	[illegible]	39	12		41	15	1.6	33	[illegible]	[illegible]	[illegible]	3	6	[illegible]	7.8	
ERIE	223	992.9	1020.7	2.6	-4.1	-0.7	0.9	16.7	14	-12.8	19	0	28	-3.9	80	116	44	24	[illegible]	0	[illegible]	[illegible]	1.9	[illegible]	[illegible]	[illegible]	15+	3	[illegible]	[illegible]	9.1	
HARRISBURG	103	1009.5	1022.4	4.3	-1.9	1.2	0.9	17.2	1	-8.9	19	0	24	-4.4	69	81	3	36	[illegible]		56	15	1.3	[illegible]	13.4	[illegible]	15	3	4	[illegible]	7.6	[illegible]
PHILADELPHIA	2	1020.3	1021.4	6.9	-1.5	2.7	0.9	17.2	15+	-8.9	24+	0	23	-2.8	68	73	[illegible]	34	12		[illegible]	15	1.6	34	13.4	[illegible]	[illegible]	1	12	[illegible]	7.7	44
PITTSBURGH	347	975.6	1020.8	4.2	-3.2	0.5	1.3	17.2	14	-12.2	19	0	25	-5.6	64	74	11	[illegible]	18		[illegible]	[illegible]	1.2	26	[illegible]	[illegible]	15	2	5	[illegible]	8.7	[illegible]
SCRANTON	283	985.8	1021.1	3.0	-4.1	-0.5	1.1	[illegible]	1	-12.2	24	0	24	-5.6	71	47	-17	14	12		[illegible]	51	[illegible]	[illegible]	[illegible]	5	[illegible]	1	9	21	8.1	[illegible]
WILLIAMSPORT	160	1001.7	1021.6	3.1	-3.4	[illegible]	0.9	[illegible]	1	-11.7	24+	0	23	-5.6	69	82	4	[illegible]	14		[illegible]	76	[illegible]	33	[illegible]	[illegible]	24+	3	7	21	[illegible]	
RHODE ISLAND																																
BLOCK ISLAND	34			5.4	-2.8	1.3	-0.5	15.6	1	-15.0	24	0	22			86	-18	36	13		[illegible]	15										
PROVIDENCE	16	1019.0	1020.4	4.8	-4.7	[illegible]	0.3	17.2	1	-20.0	24		24	-5.0	[illegible]	130	25	57	14	0	181	[illegible]	[illegible]	34	[illegible]	18	26+	[illegible]	8	[illegible]	6.6	[illegible]
SOUTH CAROLINA																																
CHARLESTON	12	[illegible]	[illegible]	16.8	2.9	9.8	0.2	24.4	15	-6.1	19	0	13	4.4	73	85	5	[illegible]	10	0	0	0	[illegible]	31	17.4	24	31	13	4	14	5.4	[illegible]

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure Station ⊙	Pressure Sea level	Temperature Average maximum	Temperature Average minimum	Temperature Average	Temperature Departure from normal	Temperature Highest	Temperature Date	Temperature Lowest	Temperature Date	No. of days Max 32.2 °C or above	No. of days Min. 0 °C or lower	Average dew point	Average relative humidity	Precipitation Total	Precipitation Departure from normal	Precipitation Greatest in 24 hours	No. of days 25 mm or more	No. of days With thunderstorms	Snow, Ice pellets Total	Snow, Ice pellets Maximum depth on ground	Wind Resultant speed	Wind Resultant direction	Fastest mile (1.6 kilometers) Speed	Fastest mile (1.6 kilometers) Direction	Fastest mile (1.6 kilometers) Date	No. of days (sunrise to sunset) Clear, 0-3	No. of days (sunrise to sunset) Partly cloudy, 4-7	No. of days (sunrise to sunset) Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
SOUTH CAROLINA																																
CHARLESTON U	3			16.2	6.9	11.6	0.9	23.9	15	-3.3	19	0	1			73	-2	22	9		0	0										
COLUMBIA	65	1013.9	1022.2	15.1	0.8	7.9	0.2	25.0	6	-9.4	19	0	15	1.7	72	128	+2	30	11	0	0	0	0.4	31	15.6	28	31	11	7	13	5.6	64
GRNVILLE-SPRTNBRG	292	986.5	1021.9	11.8	0.1	5.9	-0.1	21.1	6+	-11.7	19	0	16	0.0	71	78	-26	30	10	0	T	0	0.7	32	11.2	SW	31	14	4	13	5.2	62
SOUTH DAKOTA																																
ABERDEEN	395	971.2	1020.3	-2.6	-13.5	-8.0	0.6	6.7	4	-31.7	18	0	31	-10.0	84	8	-4	3	8	0	130	76	0.2	15	14.8	35	5	2	8	21	8.0	
HURON	390	970.9	1019.6	-0.8	-11.0	-5.9	1.2	6.7	19	-26.1	18	0	31	-8.9	81	2	-12	1	4	0	41	25	0.6	14	16.5	NW	5	6	4	21	7.6	39
RAPID CITY	964	904.5	1018.8	4.5	-7.4	-1.4	1.6	20.0	4	-21.1	17	0	30	-6.7	69	42	32	26	6	0	455	178	2.3	34	18.3	NW	31	7	8	16	6.7	52
SIOUX FALLS	432	966.8	1020.7	-2.0	-10.9	-6.4	0.2	6.7	4	-27.8	18	0	31	-8.3	82	5	-14	4	4	0	64	203	0.7	20	14.3	35	14+	5	6	20	7.6	
TENNESSEE																																
BRISTOL	459	966.1	1021.6	10.3	-1.4	4.4	1.3	20.0	14	-12.2	19	0	18	-1.7	68	85	-5	38	10	0	T	T	0.7	28	13.4	24	31	11	2	18	6.4	
CHATTANOOGA	203	997.0	1022.7	9.7	-1.6	4.1	-1.0	19.4	14+	-12.2	19	0	21	0.0	81	126	-7	50	10	0	T	T	0.6	33	8.9	30	31+	9	6	16	6.4	46
KNOXVILLE	299	986.5	1022.4	10.6	-0.5	5.1	-0.2	20.6	14	-11.7	19	0	17	0.0	75	91	-22	28	8	0	T	0	0.9	30	13.0	21	15	9	4	18	6.4	42
MEMPHIS	79	1011.9	1022.3	11.2	2.3	6.7	0.8	22.8	5	-7.8	18	0	11	1.1	69	74	-45	33	6	1	T	T	0.7	22	10.3	3	21+	7	5	19	6.8	46
NASHVILLE	180	999.7	1021.8	10.8	1.1	6.0	1.3	21.7	14+	-11.7	19	0	12	0.6	72	105	-8	43	6	1	T	T	0.8	23	9.8	19	14	8	4	19	6.7	46
OAK RIDGE R	276			9.9	-1.7	4.1	0.1	19.4	5	-14.4	19	0	21			111	-25	38	8		T	0			13.9Y		26	12	1	18	6.1	
TEXAS																																
ABILENE	544	955.6	1019.7	15.0	0.6	7.8	-0.2	25.0	5	-11.1	18	0	16	-1.7	58	31	5	29	3	0	66	51	1.3	21	17.0	S	13	13	8	10	4.6	69
AMARILLO	1098	892.3	1018.0	12.8	-3.5	4.7	1.1	22.2	10+	-12.8	18	0	25	-6.7	50	4	-15	3	3	0	46	25	1.6	28	15.6	24	1	17	7	7	3.9	83
AUSTIN	182	998.3	1020.6	17.6	5.1	11.3	0.1	27.2	14	-2.8	18+	0	5	3.9	65	52	-5	42	5	0	0	0	0.3	28	11.6	SE	14	11	8	12	5.6	46
BROWNSVILLE	6	1019.6	1020.1	22.0	10.5	16.3	-0.8	28.9	6	2.8	31	0	0	11.1	76	55	24	31	5	1	0	0	0.3	13	13.4	SE	13	8	11	12	5.7	49
CORPUS CHRISTI	12	1019.0	1020.5	20.9	8.5	14.7	-0.3	28.3	4	0.6	26	0	0	9.4	76	31	-8	21	5	1	0	0	1.2	9	17.0	NW	24	12	7	12	5.4	59
DALLAS - FORT WORTH	168	999.0	1020.6	15.8	3.0	9.4	0.6	26.1	5	-7.2	18	0	10	1.1	61	39	-8	36	4	0	10	0	0.6	21	13.0	17	14+	10	10	11	5.5	
DEL RIO	313	983.1	1019.6	19.1	4.8	11.9	0.7	27.2	5	-2.2	30	0	7	2.8	59	13	0	6	7	0	0	0	0.8	7	10.7	32	15	11	9	11	5.2	
EL PASO	1194	884.5	1018.9	15.6	-2.1	6.8	-0.1	23.3	11	-8.3	16+	0	24	-6.7	43	18	5	13	3	0	T	0	0.4	29	18.8	24	31	19	4	8	3.5	84
GALVESTON	2			15.6	10.1	12.9	-1.1	22.2	15	1.7	19	0	0			101	7	63	6		0	0			12.1	NE	17					48
HOUSTON INTERCON	29	1017.6	1021.3	17.7	5.3	11.5	-1.1	26.7	11+	-3.9	19	0	6	6.1	73	92	-11	52	6	3	0	0	0.6	8	10.7	8	24	9	5	17	6.3	52
LUBBOCK	992	905.5	1018.7	14.3	-2.3	6.0	0.8	25.0	11	-12.2	18	0	26	-4.4	56	9	-7	8	4	0	86	51	1.1	28	13.9	4	8	14	7	10	4.7	69
MIDLAND	869	918.7	1018.4	16.6	-0.2	8.2	0.4	25.6	11	-10.0	18	0	19	-2.2	56	9	-4	7	4	0	33	T	1.0	25	13.4	1	15	15	9	7	4.3	
PORT ARTHUR	5	1020.7		16.4	5.8	11.1	-1.2	26.1	15	-4.4	19	0	6	7.2	82	91	-33	43	6	2	0	0	0.8	9	15.6	E	24	11	5	15	5.9	56
SAN ANGELO	580	951.9	1019.7	16.0	1.8	8.9	-0.2	24.4	11+	-8.3	18	0	12	0.0	60	14	-4	14	2	0	0	0	1.7	24	14.3	19	13	13	8	10	4.5	
SAN ANTONIO	240	991.9	1020.4	18.9	4.4	11.7	-0.1	26.7	5	-2.8	1	0	9	3.9	64	38	1	35	5	1	0	0	0.2	36	12.1	N	6	10	7	14	5.5	55
VICTORIA	32	1016.6	1020.8	19.2	6.8	13.1	-0.4	27.2	14	0.0	19+	0	2	8.3	78	177	128	155	6	1	0	0	0.7	3	19.2Y	NW	24	7	7	17	6.5	
WACO	153	1002.0	1020.5	17.1	3.4	10.3	0.4	26.1	5	-5.6	18	0	9	3.3	69	46	-5	42	5	0	T	T	1.2	18	11.2	32	15	9	6	16	5.9	
WICHITA FALLS	303	982.7	1020.2	15.2	-0.4	7.4	0.6	27.2	5	-11.7	18	0	17	0.6	69	47	15	33	4	0	58	51	0.4	26	15.6	22	5	13	5	13	5.1	
UTAH																																
MILFORD	1533	850.3	1025.4	5.3	-8.8	-1.7	0.2	14.4	11	-21.1	15	0	30			12	-7	7	4		150	127			17.9	NE	30	12	7	12	5.2	70
SALT LAKE CITY	1286	876.7	1024.8	5.1	-4.1	0.5	1.4	13.9	8+	-17.2	31	0	25	-3.3	77	26	-9	13	8	0	300	152	1.2	15	13.4	S	1	8	6	17	6.7	51
WENDOVER	1291	876.1	1025.1	4.1	-4.9	-0.4	0.8	12.2	1	-10.6	15	0	29	-5.6	72	2	-6	2	2		36	25	0.7	36								
VERMONT																																
BURLINGTON	101	1008.5	1021.6	-1.6	-11.7	-6.6	-1.4	14.4	1	-26.7	20	0	29	-10.0	73	60	4	21	15	0	406	305	0.1	36	13.4	NW	18	3	4	24	8.3	37
VIRGINIA																																
LYNCHBURG	279	986.8		8.2	-2.4	2.9	-0.3	20.6	6	-11.7	19	0	24			110	29	40	11		T	T			10.7	NE	31	12	4	15	5.6	45
NORFOLK	7	1020.3	1021.4	11.4	0.9	6.2	0.5	22.2	15	-7.2	20+	0	16	-0.6	64	92	13	31	10	0	T	0	1.3	35	10.7	33	22	8	7	16	6.1	50
RICHMOND	50	1014.9	1021.6	10.8	-1.9	4.4	0.6	23.3	6	-10.0	23	0	22	-0.6	73	115	33	46	10	0	T	T	0.6	34	10.7	SW	15	7	8	16	6.8	47
ROANOKE	350	978.3	1021.5	9.3	-1.8	3.8	0.8	21.1	6	-12.2	19	0	24	-3.3	63	93	14	35	11	0	T	T	1.4	30	10.3	31	1	9	5	17	6.3	
WALLOPS ISLAND	3			9.8	1.3	5.6	1.8	20.6	6	-7.2	19	0	14			89	5	41	12		T	T			18.8Y	NW	18					
WASHINGTON																																
OLYMPIA	59	1013.2	1020.6	7.3	0.0	3.7	-0.5	13.9	26	-6.7	31	0	17	2.2	89	290	82	57	21	0	94	51	2.2	21	15.6	20	26	2	5	24	8.6	
QUILLAYUTE	55	1012.2	1019.6	6.4	1.1	4.8	0.0	12.2	21+	-6.1	12	0	16	3.3	90	500	104	114	21	1	58	25	1.1	17	13.4	NW	12	7	3	21	7.3	25
SEATTLE U	6			8.8	3.8	6.3	0.7	14.4	8	-1.7	6	0	7			192	56	45	19		13	T			22.4Y	SE	26					
SEATTLE-TACOMA	122	1004.1	1020.8	8.1	2.5	5.3	0.6	13.9	8	-2.8	20+	0	12	2.8	84	195	44	46	20	0	66	51	1.7	18	17.0	SW	26	4	4	23	8.2	24
SPOKANE	718	935.0	1021.2	2.5	-3.7	-0.6	1.1	10.6	2	-10.6	14	0	26	-2.8	84	61	1	20	13	0	175	152	1.8	19	21.5	SW	2	7	3	21	7.5	27
STAMPEDE PASS R	1206	880.8		0.3	-4.3	-2.0	1.3	7.8	2	-10.0	12	0	27			725	362	171	24		1570	1118						5	1	25	8.1	
WALLA WALLA U	289			7.2	1.1	4.1	1.3	19.4	8+	-3.9	13	0	18			67	17	20	15		99	76			16.1	SW	29	0	3	28	9.2	15
YAKIMA	321	983.4	1023.0	6.1	-3.1	1.5	1.9	17.8	2	-10.6	14	0	27	-3.3	74	14	-15	8	7	0	119	51	1.2	26	14.3	22	3	5	5	21	7.5	

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation ground	Pressure: Station	Pressure: Sea level	Temperature: Average maximum	Temperature: Average minimum	Temperature: Average	Temperature: Departure from normal	Temperature: Highest	Date	Temperature: Lowest	Date	No of days: Max 32.2 °C or above	No of days: Min 0 C or lower	Average dew point	Average relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	No of days: 25 mm or more	No of days: With thunderstorms	Snow, Ice pellets: Total	Snow, Ice pellets: Maximum depth on ground	Wind: Resultant speed	Wind: Resultant direction	Fastest mile (1.6 kilometers): Speed	Fastest mile: Direction	Fastest mile: Date	No of days (sunrise to sunset): Clear 0-3	Partly cloudy 4-7	Cloudy 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	m	mb	mb	C	C	C	C	C		C				C	%	mm	mm	mm			mm	mm	m/s		m/s							%
WEST INDIES																																
SAN JUAN P.R.	4	1012.9	1015.4	27.5	23.0	25.3	0.4	28.9	4+	21.1	28+	0	0	18.3	67	199	79	83	23	1	0	0	4.7	6	14.3	E	15	2	18	11	6.7	32
WEST VIRGINIA																																
BECKLEY	763	930.2	1021.7	6.3	-2.6	1.8	1.5	18.3	5	-16.1	19	0	21	-2.8	76	89	5	42	16	0	127	25	1.8	22	12.5	24	15	4	4	23	8.0	
CHARLESTON	284	986.5	1021.4	8.4	-1.1	3.7	1.3	21.7	5	-11.7	19	0	17	-0.6	75	95	14	24	13	0	102	51	1.3	25	14.8	16	1	3	5	23	8.3	
ELKINS	594	948.2		7.0	-4.2	1.4	1.6	19.4	5	-15.0	19	0	26			96	13	35	18		165	25						4	3	24	8.3	
HUNTINGTON	252	990.5	1021.3	7.8	-0.4	3.7	1.4	21.1	5	-11.1	23+	0	16	-1.7	70	92	17	27	11		41	25	1.7	25	9.4	36	15	[illegible]	5	25	8.6	
PARKERSBURG	187			6.9	-1.3	2.8	1.1	19.4	14+	-11.1	19	0	21			94	24	28	13		20	25			11.2	36	15					33
WISCONSIN																																
GREEN BAY	208	993.9	1020.6	-1.8	-10.2	-6.0	0.2	12.8	14	-21.7	18	0	30	-9.4	76	21	-11	10	11	0	236	152	1.4	29	13.4	SW	14	5	6	20	7.5	33
LA CROSSE	198	996.6	1022.2	-0.9	-8.3	-4.6	1.1	15.6	5	-20.0	18	0	30	-7.2	81	19	-9		6	1	25		0.4	27								
MADISON	262	987.8	1020.6	0.6	-7.8	-3.6	2.0	15.0	14+	-19.4	18	0	29	-6.1	82	7	-30	3	6	0	71	51	0.9	30	15.2	SW	14	3	4	24	8.2	24
MILWAUKEE	205	994.6	1020.6	1.5	-6.1	-2.3	2.1	15.6	14+	-17.8	18	0	27	-5.6	77	43	-1	11	14	1	310	127	1.6	29	15.6	SW	14	4	4	23	8.0	27
WYOMING																																
CASPER	1627	837.1	1019.6	3.2	-7.2	-2.0	1.2	13.9	4	-23.9	17	0	27	-7.2	68	18	6	8	8	0	[illegible]	178	5.3	23	16.5	22	4	10	9	12	5.9	
CHEYENNE	1867	810.0	1017.7	6.2	-5.6	0.3	1.9	17.8	4	-20.0	17	0	26	-9.4	52	13	4	7	5	0	213	127	5.3	29	18.8	W	27+	10	5	16	6.1	47
LANDER	1696	829.3	1022.0	1.3	-10.7	-4.7	0.3	17.8	9	-21.7	17	0	30	-10.0	70	20	9	9	4	0	[illegible]	254	[illegible]	27	19.2	W	2	10	12	9	5.3	65
SHERIDAN	1209	878.4	1019.3	4.9	-8.7	-1.8	1.6	21.1	4	-25.6	17	0	27	-6.7	71	29	12	7	12	0	457	203	1.8	29	15.2	NW	27	7	4	20	6.9	50

HEATING DEGREE DAYS

(Base 65°F.)

DECEMBER 1975

State and Station	Current season		Normals
	This month	Period July through this month	July through this month
ALABAMA			
BIRMINGHAM	626	1129	1148
HUNTSVILLE	699	1266	1312
MOBILE	402	633	635
MONTGOMERY	561	923	911
ALASKA			
ANCHORAGE	1654	5015	4874
ANNETTE	852	3136	2988
BARROW	2699	9851	8607
BARTER ISLAND	2672	9521	8436
BETHEL	1917	5973	5705
BETTLES	2595	7570	7167
BIG DELTA	2383	6972	6267
COLD BAY	1145	4349	4242
FAIRBANKS	2513	6851	6507
GULKANA	2233	6458	6386
HOMER	1413	4808	4637
JUNEAU	1244	4064	3957
KING SALMON	1699	5455	5116
KODIAK	1215	4462	3848
KOTZEBUE	2222	7310	6673
MC GRATH	2538	7196	6543
NOME	1956	6610	6132
ST. PAUL ISLAND	1102	4914	4709
SUMMIT	2021	6846	6519
TALKEETNA	1862	5649	5290
UNALAKLEET			
VALDEZ	1401	4653	4752
YAKUTAT	1256	4363	4157
ARIZONA			
FLAGSTAFF	1101	2784	2883
PHOENIX	310	484	587
TUCSON	365	594	653
WINSLOW	995	2067	1892
YUMA	270	389	384
ARKANSAS			
FORT SMITH	741	1374	1302
LITTLE ROCK	681	1273	1314
CALIFORNIA			
BAKERSFIELD	521	898	861
BISHOP	702	1673	1693
BLUE CANYON	648	2069	1952
EUREKA U	542	2176	2006
FRESNO	648	1257	1030
LONG BEACH	239	412	505
LOS ANGELES	226	402	571
LOS ANGELES U	247	410	371
MT SHASTA R	867	2374	2282
OAKLAND	481	1282	1107
RED BLUFF	537	1129	998
SACRAMENTO	539	917	1061
SANDBERG R	615	1530	1479
SAN DIEGO	246	406	462
SAN FRANCISCO	480	1349	1145
SAN FRANCISCO U	352	1324	1244
SANTA MARIA	432	1243	1146
STOCKTON	622	1183	1052
COLORADO			
ALAMOSA	1485	3784	3566
COLORADO SPRINGS	916	2369	2512
DENVER	843	2245	2300
GRAND JUNCTION	1161	2412	2241
PUEBLO	874	2108	2108
CONNECTICUT			
BRIDGEPORT	908	1589	1840
HARTFORD	1125	2052	2354
DELAWARE			
WILMINGTON	888	1539	1804
DIST.OF COLUMBIA			
WASHINGTON DULLES	977	1833	1904
WASHINGTON NATIONAL	752	1202	1570
FLORIDA			
APPALACHICOLA U	350	539	498
DAYTONA BEACH	222	324	309
FORT MYERS	102	150	156
JACKSONVILLE	373	560	497
KEY WEST	13	15	18
LAKELAND U	179	264	228
MIAMI	49	82	69
ORLANDO	174	259	245
PENSACOLA	387	607	580
TALLAHASSEE	417	681	611
TAMPA	183	271	240
WEST PALM BEACH	74	114	100
GEORGIA			
ATHENS	635	1057	1188
ATLANTA	665	1148	1220
AUGUSTA	540	889	1025
COLUMBUS	532	899	941
MACON	537	884	904
ROME	680	1207	1363
SAVANNAH	446	699	771
IDAHO			
BOISE	1035	2294	2321
LEWISTON	863	2082	2221
POCATELLO	1001	2684	2787
ILLINOIS			
CAIRO U	730	1348	1472
CHICAGO O HARE	1033	2015	2424
CHICAGO MIDWAY	1029	1997	2251
MOLINE	1072	2134	2398
PEORIA	1069	2156	2305
ROCKFORD	1172	2463	2578
SPRINGFIELD	973	1889	2101
INDIANA			
EVANSVILLE	861	1643	1794
FORT WAYNE	1036	2113	2337
INDIANAPOLIS	992	1976	2126
SOUTH BEND	992	1984	2399
IOWA			
BURLINGTON	1072	2108	2313
DES MOINES	1085	2137	2513
DUBUQUE	1198	2584	2769
SIOUX CITY	1223	2606	2649
WATERLOO	1224	2689	2832
KANSAS			
CONCORDIA	968	2012	2132
DODGE CITY	845	1828	1934
GOODLAND	909	2155	2372
TOPEKA	941	1891	2006
WICHITA	892	1787	1795
KENTUCKY			
COVINGTON	848	1713	1921
LEXINGTON	895	1760	1813
LOUISVILLE	801	1510	1787
LOUISIANA			
ALEXANDRIA	505	842	865
BATON ROUGE	446	722	643
LAKE CHARLES	414	645	551
NEW ORLEANS	417	661	546
SHREVEPORT	492	821	838
MAINE			
CARIBOU	1674	3756	3714
PORTLAND	1258	2693	2785
MARYLAND			
BALTIMORE	853	1456	1765
MASSACHUSETTS			
BLUE HILL OBS R	1061	2080	2272
BOSTON	941	1653	1971
WORCHESTER	1161	2432	2518
MICHIGAN			
ALPENA	1267	2928	3192
DETROIT	1037	1902	2247
DETROIT METRO	1107	2201	2372
FLINT	1117	2232	2615
GRAND RAPIDS	1161	2408	2513
HOUGHTON LAKE	1272	2909	3172
LANSING	1145	2430	2564
MARQUETTE U	1290	2918	3087
MUSKEGON	1066	2265	2516
SAULT STE MARIE	1394	3309	3453
MINNESOTA			
DULUTH	1642	3799	3767
INTERNATIONAL FALLS	1801	4093	4157
MINNEAPOLIS	1346	2804	3093
ROCHESTER	1311	2811	3127
ST CLOUD	1533	3400	3397
MISSISSIPPI			
JACKSON	543	932	896
MERIDIAN	589	1068	972
MISSOURI			
COLUMBIA REGIONAL	916	1849	1920
KANSAS CITY	954	1889	1933
ST JOSEPH	982	1916	2063
ST LOUIS	910	1748	1801
SPRINGFIELD	815	1727	1752
MONTANA			
BILLINGS	1095	2803	2796
GLASCOW	1437	3425	3450
GREAT FALLS	1122	2982	2950
HAVRE	1245	3201	3393
HELENA	1199	3365	3297
KALISPELL	1160	3308	3565
MILES CITY	1309	3099	3061
MISSOULA	1213	3290	3289
NEBRASKA			
GRAND ISLAND	1166	2510	2457
LINCOLN	1079	2275	2361
NORFORK	1247	2659	2663
NORTH PLATTE	1191	2897	2643
OMAHA	1051	2138	2275
SCOTTSBLUFF	1019	2530	2650
VALENTINE	1214	2898	2813
NEVADA			
ELKO	1094	2899	3014
ELY	1123	3039	3072
LAS VEGAS	516	943	1045
RENO	961	2448	2430
WINNEMUCCA	925	2377	2669
NEW HAMPSHIRE			
CONCORD	1330	2957	2786
MT WASHINGTON OBS	1735	5649	5884
NEW JERSEY			
ATLANTIC CITY	904	1770	1794
ATLANTIC CITY U	814	1473	1566
NEWARK	913	1568	1787
TRENTON U	870	1515	1785
NEW MEXICO			
ALBUQUERQUE	905	1872	1733
CLAYTON	811	1957	2005
ROSWELL	662	1276	1552
NEW YORK			
ALBANY	1199	2328	2562
BINGHAMTON	1192	2500	2721
BUFFALO	1134	2252	2308
NEW YORK U	898	1543	1681
NEW YORK KENNEDY	874	1475	1777
NEW YORK LA GUARDIA	857	1477	1696
ROCHESTER	1146	2248	2432
SYRACUSE	1154	2321	2405
NORTH CAROLINA			
ASHEVILLE	812	1619	1695
CAPE HATTERAS R	498	736	889
CHARLOTTE	694	1157	1280
GREENSBORO	765	1308	1521
RALEIGH	705	1190	1386
WILMINGTON	478	717	911
NORTH DAKOTA			
BISMARCK	1419	3314	3483
FARGO	1550	3374	3542
WILLISTON	1522	3606	3574
OHIO			
AKRON	971	2020	2328
CINCINNATI ABBE OB	853	1633	1843
CLEVELAND	1015	2088	2253
COLUMBUS	973	1924	2188
DAYTON U	957	1873	2130
MANSFIELD	1078	2185	2171
TOLEDO	1110	2341	2410
YOUNGSTOWN	1063	2216	2396
OKLAHOMA			
OKLAHOMA CITY	713	1333	1409
TULSA	762	1394	1402
OREGON			
ASTORIA	624	2082	2136
BURNS U	1054	2856	2899
EUGENE	676	1649	1888
MEDFORD	789	1961	1972
PENDLETON	751	1811	2116
PORTLAND	686	1718	1914
SALEM	708	1941	1923
SEXTON SUMMIT R	813	2596	2426
PENNSYLVANIA			
ALLENTOWN	995	1863	2179
ERIE	1057	2198	2483
HARRISBURG	951	1715	1984
PHILADELPHIA	866	1435	1775
PITTSBURGH	989	2097	2274
PITTSBURGH U	937	1813	1972
SCRANTON	1043	2009	2371
WILLIAMSPORT	1023	2054	2263
RHODE ISLAND			
BLOCK ISLAND	944	1629	1894
PROVIDENCE	1013	1962	2143
SOUTH CAROLINA			
CHARLESTON	466	727	832
CHARLESTON U	372	568	696
COLUMBIA	577	929	1042
GRNVLLE-SPRTNBRG	683	1186	1259
SOUTH DAKOTA			
ABERDEEN	1465	3013	3307
HURON	1346	3002	3071
RAPID CITY	1096	2743	2777
SIOUX FALLS	1377	3000	3010
TENNESSEE			
BRISTOL	768	1453	1711
CHATTANOOGA	785	1464	1412
KNOXVILLE	733	1384	1388
MEMPHIS	643	1125	1263
NASHVILLE	683	1287	1451
OAK RIDGE	768	1558	1573
TEXAS			
ABILENE	576	1057	1002
AMARILLO	757	1588	1609
AUSTIN	404	636	643
BROWNSVILLE	180	259	185
CORPUS CHRISTI	247	358	307
DALLAS FT WORTH	500	603	877
DEL RIO	361	557	612
EL PASO	640	1125	1133
GALVESTON	309	439	379
HOUSTON INTERCON	399	642	512
LUBBOCK	680	1314	1391
MIDLAND	560	1022	1029
PORT ARTHUR	415	638	561
SAN ANGELO	519	946	889
SAN ANTONIO	394	630	564
VICTORIA	316	487	423
WACO	462	721	763
WICHITA FALLS	606	1083	1106
UTAH			
MILFORD	1115	2691	2529
SALT LAKE CITY	989	2242	2365
WENDOVER	1042	2400	2356
VERMONT			
BURLINGTON	1385	2767	2916
VIRGINIA			
LYNCHBURG	853	1530	1650
NORFORK	671	1065	1256
RICHMOND	770	1274	1510
ROANOKE	609	1456	1672
WALLOPS ISLAND	703	1156	1470
WASHINGTON			
OLYMPIA	811	2421	2278
QUILLAYUTE	750	2486	2461
SEATTLE	666	1608	1896
SEATTLE-TACOMA	723	1919	2101
SPOKANE	1048	2768	2798
STAMPEDE PASS R	1126	4065	3936
WALLA WALLA U	784	1782	1956
YAKIMA	931	2354	2509
WEST VIRGINIA			
BECKLEY	914	1881	2226
CHARLESTON	813	1587	1794
ELKINS	940	2046	2379
HUNTINGTON	811	1575	1795
PARKERSBURG U	864	1748	1841
WISCONSIN			
GREEN BAY	1351	2948	3031
LA CROSSE	1274	2657	2805
MADISON	1217	2581	2945
MILWAUKEE	1144	2331	2751
WYOMING			
CASPER	1126	2893	2931
CHEYENNE	998	2757	2803
LANDER	1277	3174	3119
SHERIDAN	1122	2990	3010

MONTHLY AND SEASONAL COOLING DEGREE DAYS

(Base 65°F)

1975

State and Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total for Season	Normals Jan.- Dec.
ALABAMA														
BIRMINGHAM	8	0	26	61	241	351	416	447	211	66	29	2	1858	1928
HUNTSVILLE	0	0	3	53	156	325	378	413	170	59	11	0	1568	1808
MOBILE	21	44	57	115	303	475	529	524	325	183	85	71	2732	2577
MONTGOMERY	7	5	32	54	269	369	514	545	311	163	80	0	2349	2238
ALASKA														
ANCHORAGE	0	0	0	0	0	1	1	0	0	0	0	0	2	[illegible]
ANNETTE	0	0	0	0	0	0	8	0	0	0	0	0	8	4
BARROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BARTER ISLAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BETHEL	0	0	0	0	0	0	1	0	0	0	0	0	1	0
BETTLES	0	0	0	0	0	0	59	0	0	0	0	0	59	7
BIG DELTA	0	0	0	0	0	3	14	4	0	0	0	0	21	34
COLD BAY	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FAIRBANKS	0	0	0	0	0	28	146	1	0	0	0	0	175	52
GULKANA	0	0	0	0	0	0	22	0	0	0	0	0	22	9
HOMER	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JUNEAU	0	0	0	0	0	0	7	0	0	0	0	0	7	0
KING SALMON	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KODIAK	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KOTZEBUE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC GRATH	0	0	0	0	0	0	18	0	0	0	0	0	18	14
NOME	0	0	0	0	0	0	1	0	0	0	0	0	1	0
ST. PAUL ISLAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUMMIT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TALKEETNA	0	0	0	0	0	0	10	0	0	0	0	0	10	5
UNALAKLEET	0	0	0	0	0	0	1	3	0	0	0	0	4	0
VALDEZ	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YAKUTAT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ARIZONA														
FLAGSTAFF	0	0	0	0	0	0	60	28	0	0	0	0	88	140
PHOENIX	[illegible]	0	[illegible]	42	474	654	913	839	[illegible]	265	45	1	3785	3508
TUCSON	[illegible]	0	4	11	[illegible]	[illegible]	[illegible]	651	[illegible]	182	27	0	2592	2814
WINSLOW	0	0	0	[illegible]	18	175	408	336	106	3	0	0	1046	[illegible]
YUMA	[illegible]	3	32	47	[illegible]	619	869	854	694	265	46	3	3766	4195
ARKANSAS														
FORT SMITH	0	0	3	46	193	327	457	454	175	67	23	0	1745	2022
LITTLE ROCK	6	0	4	73	245	416	475	455	178	73	14	2	1941	1925
CALIFORNIA														
BAKERSFIELD	0	0	7	14	299	490	[illegible]	564	538	[illegible]	1	0	2649	2179
BISHOP	0	0	0	0	52	183	402	258	148	5	0	0	1048	[illegible]
BLUE CANYON	0	0	0	0	11	59	133	88	80	3	0	0	374	302
EUREKA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FRESNO	0	0	0	0	164	[illegible]	413	344	[illegible]	49	0	0	1602	[illegible]
LONG BEACH	6	0	0	0	22	62	248	243	282	90	18	3	974	985
LOS ANGELES	13	0	0	0	0	14	128	108	163	51	21	7	505	615
LOS ANGELES	21	0	0	0	11	48	241	221	277	82	26	4	931	1185
MT SHASTA R	0	0	0	0	14	40	116	58	42	1	0	0	271	286
OAKLAND	0	0	0	0	32	7	17	24	23	2	0	0	105	128
RED BLUFF	0	0	0	0	195	349	469	399	416	55	0	0	1883	1904
SACRAMENTO	0	0	0	0	177	258	388	375	375	81	0	0	1654	1159
SANDBERG R	0	0	0	0	30	0	230	219	225	38	0	0	742	800
SAN DIEGO	0	0	0	0	1	18	142	124	201	54	8	0	548	722
SAN FRANCISCO	0	0	0	0	21	4	15	19	19	2	0	0	80	108
SAN FRANCISCO	0	0	0	0	23	0	4	8	15	5	0	0	55	59
SANTA MARIA	0	0	0	0	0	0	1	4	19	9	2	0	35	64
STOCKTON	0	0	0	0	157	236	341	318	288	36	0	0	1376	1259
COLORADO														
ALAMOSA	0	0	0	0	0	0	24	4	0	0	0	0	28	88
COLORADO SPRINGS	0	0	0	0	0	59	195	180	41	5	0	0	480	461
DENVER	0	0	0	0	3	69	246	192	39	5	0	0	554	625
GRAND JUNCTION	0	0	0	0	9	133	419	328	106	9	0	0	1004	1140
PUEBLO	0	0	0	6	14	191	371	326	97	3	0	0	1008	981
CONNECTICUT														
BRIDGEPORT	0	0	0	0	50	108	300	285	46	11	4	0	804	735
HARTFORD	0	0	0	0	106	147	348	229	27	7	6	0	870	584
DELAWARE														
WILMINGTON	0	0	0	0	97	207	337	355	73	27	5	0	1101	992
DIST.OF COLUMBIA														
WASHINGTON DULLES	0	0	0	4	89	197	298	330	73	10	0	0	1001	940
WASHINGTON NATIONAL	1	0	0	12	177	344	448	475	132	50	15	0	1654	1415
FLORIDA														
APALACHICOLA	5	19	35	96	369	453	449	505	357	227	86	2	2603	2663
DAYTONA BEACH	71	95	118	191	386	441	488	487	445	325	163	29	3239	2919
FORT MYERS	181	177	215	309	495	528	533	588	490	439	224	70	4249	3711
JACKSONVILLE	31	42	59	109	334	482	474	508	406	238	99	2	2784	2596
KEY WEST	309	296	361	444	545	584	588	610	538	508	322	217	5322	4888
LAKELAND	108	138	162	254	441	478	493	511	440	348	174	57	3604	[illegible]
MIAMI	261	233	276	382	456	501	508	553	517	448	257	178	4570	4038
ORLANDO	105	121	141	237	442	481	489	541	479	366	157	32	3591	3226
PENSACOLA	22	51	64	116	377	490	557	536	350	194	96	12	2865	2695
TALLAHASSEE	6	23	53	101	361	459	455	513	352	189	89	3	2604	2563
TAMPA	93	115	151	282	521	536	572	585	512	407	191	39	4004	3366
WEST PALM BEACH	216	208	237	280	[illegible]	442	467	514	472	[illegible]	235	139	4003	3786
GEORGIA														
ATHENS	6	0	3	55	218	312	433	466	232	88	24	0	1837	1722
ATLANTA	0	0	6	44	195	313	359	406	193	63	21	0	1600	1589
AUGUSTA	2	3	11	51	242	332	395	488	293	122	43	0	1982	1995
COLUMBUS	5	1	28	79	293	409	444	494	274	122	56	0	2205	2143
MACON	[illegible]	5	25	[illegible]	282	377	415	476	261	[illegible]	40	0	2077	[illegible]
ROME	0	0	0	52	200	322	414	421	188	61	8	0	1666	1615
SAVANNAH	24	33	44	104	374	439	423	528	351	187	65	2	2574	2317

MONTHLY AND SEASONAL COOLING DEGREE DAYS

(Base 65°F)

1975

State and Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total for Season	Normals Jan.- Dec.
HAWAII														
HILO	192	201	197	232	257	288	311	339	323	309	262	233	3144	3066
HONOLULU	235	224	256	292	337	400	438	475	438	442	372	257	4166	4221
KAHULUI	205	211	227	297	254	297	355	385	344	350	271	230	3426	3732
LIHUE	255	187	240	281	336	376	403	413	394	399	365	268	3917	3719
IDAHO														
BOISE	0	0	0	0	10	64	426	182	96	11	0	0	789	714
LEWISTON	0	0	0	0	13	52	405	194	92	5	0	0	761	657
POCATELLO	0	0	0	0	2	23	290	98	23	4	0	0	440	437
ILLINOIS														
CAIRO	0	0	0	54	252	445	485	422	160	88	8	0	1914	1806
CHICAGO O HARE	0	0	0	0	76	203	332	358	46	24	1	0	1040	664
CHICAGO MIDWAY	0	0	0	0	89	242	354	358	52	25	4	0	1124	925
MOLINE	0	0	0	1	85	241	325	319	44	29	■	0	1044	893
PEORIA	0	0	0	0	83	237	292	307	55	14	0	0	988	968
ROCKFORD	0	0	0	0	75	201	273	258	22	15	0	0	844	714
SPRINGFIELD	0	0	0	2	115	271	315	367	94	36	■	0	1200	1116
INDIANA														
EVANSVILLE	0	0	0	29	176	342	406	388	129	29	1	0	1500	1364
FORT WAYNE	0	0	0	2	76	192	256	260	37	9	1	0	833	748
INDIANAPOLIS	0	0	0	3	100	222	281	355	71	14	0	0	1046	974
SOUTH BEND	0	0	0	0	86	203	232	274	32	25	1	0	853	695
IOWA														
BURLINGTON	0	0	0	1	89	236	334	310	58	23	0	0	1051	994
DES MOINES	0	0	0	3	116	237	408	383	58	32	0	0	1237	928
DUBUQUE	0	0	0	0	57	159	247	198	19	12	0	0	692	606
SIOUX CITY	0	0	0	0	91	162	362	320	50	28	0	0	1013	932
WATERLOO	0	0	0	0	86	215	304	253	30	21	0	0	909	675
KANSAS														
CONCORDIA	0	0	0	14	74	221	447	480	115	49	0	0	1400	1302
DODGE CITY	0	0	0	22	76	252	419	515	162	59	0	0	1505	1411
GOODLAND	0	0	0	4	10	106	298	344	104	15	0	0	881	925
TOPEKA	0	0	0	38	129	289	390	448	116	61	3	0	1474	1361
WICHITA	0	0	0	32	49	275	450	515	128	63	0	0	1512	1673
KENTUCKY														
COVINGTON	0	0	0	8	138	236	309	376	72	19	3	0	1161	1080
LEXINGTON	0	0	0	11	130	267	357	394	86	18	0	0	1263	1197
LOUISVILLE	0	0	0	24	152	320	402	451	116	36	5	0	1506	1268
LOUISIANA														
ALEXANDRIA	25	18	57	127	305	476	532	536	289	117	68	7	2557	2193
BATON ROUGE	30	36	68	126	329	446	515	500	302	156	94	16	2618	2585
LAKE CHARLES	32	22	63	120	341	452	510	501	311	166	79	12	2609	2739
NEW ORLEANS	34	45	80	132	321	440	479	491	314	171	114	16	2637	2706
SHREVEPORT	23	0	21	91	238	403	501	493	271	141	34	12	2228	2538
MAINE														
CARIBOU	0	0	0	0	0	54	137	80	0	0	0	0	271	128
PORTLAND	0	0	0	0	1	49	179	120	2	0	0	0	351	252
MARYLAND														
BALTIMORE	0	0	0	4	112	252	351	404	85	27	10	0	1245	1108
MASSACHUSETTS														
BLUE HILL OBS R	0	0	0	0	42	84	255	169	10	■	0	0	565	457
BOSTON	0	0	0	0	60	139	345	261	44	9	4	0	862	661
WORCHESTER	0	0	0	0	33	69	218	132	0	1	0	0	453	387
MICHIGAN														
ALPENA	0	0	0	0	39	71	167	102	1	0	0	0	380	208
DETROIT	0	0	0	0	128	213	360	306	0	18	0	0	1025	743
DETROIT METRO	0	0	0	0	82	171	233	232	7	6	0	0	731	654
FLINT	0	0	0	0	68	128	187	158	1	9	0	0	551	438
GRAND RAPIDS	0	0	0	0	65	148	199	184	8	15	0	0	619	575
HOUGHTON LAKE	0	0	0	0	58	83	146	78	2	2	0	0	369	250
LANSING	0	0	0	0	73	165	192	162	5	11	0	0	608	535
MARQUETTE J	0	0	0	0	9	67	218	118	1	0	0	0	413	216
MUSKEGON	0	0	0	0	38	141	213	174	6	11	0	0	583	469
SAULT STE MARIE	0	0	0	0	32	42	113	54	2	0	0	0	243	139
MINNESOTA														
DULUTH	0	0	0	0	2	18	168	41	■	0	0	0	229	176
INTERNATIONAL FALLS	0	0	0	0	23	54	211	38	0	2	0	0	328	176
MINNEAPOLIS	0	0	0	0	66	159	371	220	18	16	0	0	850	585
ROCHESTER	0	0	0	0	68	141	279	194	18	12	0	0	712	474
ST CLOUD	0	0	0	0	37	97	283	117	7	1	0	0	542	426
MISSISSIPPI														
JACKSON	26	17	46	96	290	407	509	487	255	101	59	7	2300	2321
MERIDIAN	4	1	23	50	342	430	507	506	274	57	22	0	2216	2231
MISSOURI														
COLUMBIA REGIONAL	0	0	0	9	73	235	355	339	83	32	■	0	1126	1269
KANSAS CITY	0	0	0	22	117	284	498	464	105	43	1	0	1534	1420
ST JOSEPH	0	0	0	23	142	292	408	0	92	49	2	0	1008	1334
ST LOUIS	0	0	2	12	133	308	405	406	110	51	4	0	1431	1475
SPRINGFIELD	0	0	1	27	110	291	394	364	109	52	1	0	1349	1382
MONTANA														
BILLINGS	0	0	0	0	2	15	299	126	26	10	0	0	478	498
GLASGOW	0	0	0	0	1	33	263	75	6	0	0	0	378	438
GREAT FALLS	0	0	0	0	0	10	231	62	12	0	0	0	315	339
HAVRE	0	0	0	0	0	14	267	64	8	0	0	0	353	395
HELENA	0	0	0	0	0	1	154	12	■	0	0	0	167	256
KALISPELL	0	0	0	0	0	0	177	30	0	0	0	0	207	117
MILES CITY	0	0	0	0	9	60	373	165	18	5	0	0	630	752
MISSOULA	0	0	0	0	0	0	227	31	0	0	0	0	258	188

MONTHLY AND SEASONAL HEATING DEGREE DAYS

(Base 65°F)

State and Station	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total for Season	Normals July-June
NEBRASKA														
GRAND ISLAND	0	0	0	2	49	158	373	364	65	58	0	0	1069	1036
LINCOLN	0	0	0	4	76	204	428	459	74	37	0	0	1282	1148
NORFOLK	0	0	0	1	67	171	398	359	60	24	0	0	1080	925
NORTH PLATTE	0	0	0	10	11	89	311	260	39	7	0	0	727	802
OMAHA	0	0	0	7	115	242	441	464	76	44	0	0	1389	1113
SCOTTSBLUFF	0	0	0	1	12	101	386	245	43	4	0	0	792	666
VALENTINE	0	0	0	16	24	124	400	272	47	18	0	0	901	736
NEVADA														
ELKO	0	0	0	0	0	15	212	56	0	0	0	0	283	342
ELY	0	0	0	0	0	2	120	46	0	0	0	0	168	207
LAS VEGAS	0	0	2	2	276	570	792	704	508	117	2	0	2973	2946
RENO	0	0	0	0	4	43	199	66	33	3	0	0	348	329
WINNEMUCCA	0	0	0	0	0	50	297	113	25	3	0	0	488	407
NEW HAMPSHIRE														
CONCORD	0	0	0	0	48	108	263	134	0	0	0	0	553	349
MT WASHINGTON OBS	0	0	0	0	0	0	0	1	0	0	0	0	1	0
NEW JERSEY														
ATLANTIC CITY	0	0	0	0	74	164	305	282	48	10	0	0	883	864
ATLANTIC CITY C	0	0	0	0	42	131	269	313	51	15	0	0	821	895
NEWARK	0	0	0	0	117	211	375	321	46	20	10	0	1100	1024
TRENTON C	0	0	0	0	111	204	343	329	49	24	10	0	1070	958
NEW MEXICO														
ALBUQUERQUE	0	0	0	0	25	256	372	351	96	0	0	0	1100	1316
CLAYTON	0	0	0	0	10	156	210	260	82	1	0	0	719	767
ROSWELL	0	0	0	19	67	361	379	416	159	33	3	0	1437	1560
NEW YORK														
ALBANY	0	0	0	0	58	97	248	180	12	0	2	0	597	574
BINGHAMTON	0	0	0	0	59	119	251	121	1	1	0	0	552	369
BUFFALO	0	0	0	0	90	129	238	171	3	3	0	0	634	437
NEW YORK C	0	0	0	0	120	185	341	299	43	22	15	0	1025	1068
NEW YORK KENNEDY	0	0	0	0	58	137	319	301	41	24	7	0	887	861
NEW YORK LA GUARDIA	0	0	0	0	87	160	338	293	46	20	9	0	953	1048
ROCHESTER	0	0	0	0	89	121	257	178	5	5	0	0	656	531
SYRACUSE	0	0	0	0	80	114	221	138	1	1	0	0	555	551
NORTH CAROLINA														
ASHEVILLE	0	0	0	11	82	124	237	252	89	0	0	0	795	872
CAPE HATTERAS R	1	7	3	20	160	353	398	479	345	142	32	0	1940	1550
CHARLOTTE	0	0	0	40	188	307	356	436	196	67	11	0	1601	1596
GREENSBORO	0	0	1	15	159	313	379	473	192	37	7	0	1576	1341
RALEIGH	0	0	3	22	141	269	337	421	209	38	12	0	1452	1394
WILMINGTON	1	5	17	84	276	417	469	545	369	145	45	0	2373	1964
NORTH DAKOTA														
BISMARCK	0	0	0	0	6	64	257	104	2	0	0	0	433	487
FARGO	0	0	0	0	11	92	308	126	1	15	0	0	553	473
WILLISTON	0	0	0	0	2	39	253	77	5	0	0	0	376	422
OHIO														
AKRON	0	0	0	0	74	179	250	260	5	7	0	0	775	634
CINCINNATI ABBE OB	0	0	0	7	166	275	349	436	101	24	6	0	1364	1188
CLEVELAND	0	0	0	0	75	187	206	241	6	5	0	0	720	613
COLUMBUS	0	0	0	1	130	248	320	389	48	10	1	0	1147	809
DAYTON C	0	0	0	2	119	228	257	302	46	13	7	0	974	936
MANSFIELD	0	0	0	0	68	160	254	247	8	9	0	0	746	818
TOLEDO	0	0	0	0	79	172	197	230	7	7	0	0	692	685
YOUNGSTOWN	0	0	0	0	65	163	204	207	8	9	0	0	656	518
OKLAHOMA														
OKLAHOMA CITY	0	0	1	53	108	310	410	476	170	83	4	0	1615	1876
TULSA	0	0	9	77	156	335	509	542	192	97	12	0	1929	1949
OREGON														
ASTORIA	0	0	0	0	1	0	5	0	17	0	0	0	23	13
BURNS C	0	0	0	0	0	11	230	71	35	0	0	0	347	269
EUGENE	0	0	0	0	3	25	135	47	82	1	0	0	293	239
MEACHAM	0	0												0
MEDFORD	0	0	0	0	21	60	250	129	140	2	0		602	562
PENDLETON	0	0	0	0	27	88	423	179	109	8	0	0	834	656
PORTLAND	0	0	0	0	12	39	157	57	75	2	0	0	342	300
SALEM	0	0	0	0	1	16	109	30	41	0	0	0	197	232
SEXTON SUMMIT R	0	0	0	0	20	20	89	27	118	9	0	0	283	137
PACIFIC AREA														
GUAM TAGUAC R	409	357	383	434	454	487	422	409	422	435	405	418	5035	[illegible]
JOHNSTON	361	319	347	368	413	420	457	476	461	461	410	388	4881	5086
KOROR R	498	467	524	515	541	493	493	524	504	527	527	503	6116	6008
KWAJALEIN	526	495	572	539	516	493	496	498	482	480	479	502	6078	6164
MAJURO	483	456	494	464	490	447	460	468	458	436	439	458	5553	5904
PAGO PAGO	485	445	506	452	473	431	452	450	444	507	464	454	5563	5325
PONAPE R	525	491	501	503	498	464	467	481	471	461	459	458	5779	5652
TRUK MOEN ISLAND	522	475	524	522	514	494	501	506	489	501	473	506	6027	5888
WAKE	357	310	378	375	450	525	530	539	505	528	463	402	5362	5455
YAP R	474	451	498	482	491	451	479	459	448	489	477	469	5668	[illegible]
PENNSYLVANIA														
ALLENTOWN	0	0	0	0	79	154	279	247	18	13	1	0	791	772
ERIE	0	0	0	0	64	138	221	156	4	5	0	0	588	[illegible]
HARRISBURG	0	0	0	0	97	192	325	354	44	12	2	0	1026	1025
PHILADELPHIA	0	0	0	0	121	224	364	386	94	42	12	0	1243	[illegible]
PITTSBURGH	0	0	0	0	60	137	248	257	12	7	0	0	721	647
SCRANTON	0	0	0	0	91	146	278	207	13	14	0	0	749	708
WILLIAMSPORT	0	0	0	0	54	108	231	191	[illegible]	4	0	0	604	698
RHODE ISLAND														
BLOCK ISLAND	0	0	0	0	4	40	217	208	18	0	0	0	487	359
PROVIDENCE	0	0	0	0	55	100	300	218	16	4	1	0	694	532

MONTHLY AND SEASONAL COOLING DEGREE DAYS

(Base 65°F)

1975

State and Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total for Season	Normals Jan.- Dec.
SOUTH CAROLINA														
CHARLESTON	8	13	26	74	318	414	449	516	361	171	58	0	2408	2078
CHARLESTON U	5	4	15	75	342	471	496	571	376	195	60	2	2612	2354
COLUMBIA	8	6	11	94	308	390	442	488	317	129	37	0	2230	2087
GRNVLLE-SPRTNBRG	0	0	0	45	185	290	363	427	180	50	7	0	1547	1573
SOUTH DAKOTA														
ABERDEEN	0	0	0		27	142	420	241	34	13	0	0	877	566
HURON	0	0	0	4	17	136	432	276	33	12	0	0	910	711
RAPID CITY	0	0	0	0	9	41	314	188	19	12	0	0	583	661
SIOUX FALLS	0	0	0	0	44	134	428	252	36	16	0	0	910	719
TENNESSEE														
BRISTOL	0	0	0	12	101	190	310	353	136	7	0	0	1109	1107
CHATTANOOGA	0	0	0	29	115	238	411	382	162	27	1	0	1365	1636
KNOXVILLE	0	0	0	39	173	293	397	434	168	26	0	0	1530	1569
MEMPHIS	8	0	3	93	272	421	507	510	224	121	23	2	2184	2029
NASHVILLE	3	0	3	55	183	341	424	444	164	62	19	0	1698	1694
OAK RIDGE	0	0	0	23	0	216	306	353	114	11	0	0	1023	1367
TEXAS														
ABILENE	0	0	20	89	175	411	462	513	236	120	13	0	2039	2466
AMARILLO	0	0	0	24	61	273	330	367	134	46	0	0	1235	1433
AUSTIN	21	0	47	141	277	454	536	552	329	187	72	22	2638	2908
BROWNSVILLE	79	68	223	363	526	536	548	546	408	315	176	69	3857	3874
CORPUS CHRISTI	70	35	154	319	486	557	608	573	422	300	161	52	3737	3474
DALLAS FT WORTH	0	0	15	107	236	483	580	620	331	189	39	9	2609	2587
DEL RIO	13	1	83	205	363	534	508	582	345	202	78	13	2927	3363
EL PASO	0	0	9	35	170	482	469	502	241	41	1	0	1950	2098
GALVESTON	19	11	53	132	379	483	588	599	378	254	106	11	3013	3004
HOUSTON INTERCON	47	8	61	155	342	455	514	505	303	174	68	24	2656	2889
LUBBOCK	0	0	0	49	107	383	332	392	155	49	0	0	1467	1647
MIDLAND	0	0	10	80	220	466	404	439	217	86	5	0	1927	2250
PORT ARTHUR	28	9	61	130	344	454	516	508	335	186	71	18	2660	2798
SAN ANGELO	3	0	18	103	220	448	427	493	238	90	18	0	2058	2702
SAN ANTONIO	29	1	51	151	273	457	502	524	337	217	80	30	2652	2994
VICTORIA	61	19	118	223	421	535	597	591	401	240	116	29	3351	3140
WACO	2	0	26	100	227	448	533	618	376	206	83	19	2638	2863
WICHITA FALLS	0	0	10	81	210	436	529	558	237	116	13	0	2190	2611
UTAH														
MILFORD	0	0	0	0	0	37	260	141	37	0	0	0	475	688
SALT LAKE CITY	0	0	0	0	9	89	439	269	80	14	0	0	900	927
WENDOVER	0	0	0	0	29	139	511	318	102	14	0	0	1113	1137
VERMONT														
BURLINGTON	0	0	0	0	75	131	306	181	5	1	0	0	699	396
VIRGINIA														
LYNCHBURG	0	0	0	6	108	209	282	365	103	14	4	0	1091	1100
NORFOLK	2	3	0	22	157	366	429	460	233	55	17	0	1744	1441
RICHMOND	0	0	0	16	135	267	348	433	165	51	18	0	1433	1353
ROANOKE	0	0	0	5	108	213	301	379	114	27	5	0	1152	1030
WALLOPS ISLAND	0	0	0	3	59	252	312	431	170	48	7	0	1282	1107
WASHINGTON														
OLYMPIA	0	0	0	0	0	4	45	9	1	0	0	0	59	101
QUILLAYUTE	0	0	0	0	0	0	5	0	1	0	0	0	6	8
SEATTLE	0	0	0	0	2	10	71	20	17	0	0	0	120	183
SEATTLE-TACOMA	0	0	0	0	0	21	108	29	39	0	0	0	197	129
SPOKANE	0	0	0	0	0	7	256	57	20	0	0	0	340	388
STAMPEDE PASS R	0	0	0	0	0	0	35	0	1	0	0	0	36	16
WALLA WALLA U	0	0	0	0	28	67	412	185	103	2	3	0	800	862
YAKIMA	0	0	0	0	10	52	314	86	22	0	0	0	484	479
WEST INDIES														
SAN JUAN P.R.	375	346	420	446	501	543	565	556	521	519	450	395	5637	4982
WEST VIRGINIA														
BECKLEY	0	0	0	1	51	92	145	221	37	1	0	0	548	490
CHARLESTON	0	0	0	7	99	212	291	372	82	7	4	0	1074	1055
ELKINS	0	0	0	0	25	70	114	161	27	0	0	0	397	389
HUNTINGTON	0	0	0	15	143	255	319	423	100	17	2	0	1274	1098
PARKERSBURG U	0	0	0	5	108	220	300	352	53	12	1	0	1051	1045
WISCONSIN														
GREEN BAY	0	0	0	0	56	106	221	126	3	2	0	0	514	386
LA CROSSE	0	0	0	0	85	177	306	215	16	15	0	0	814	695
MADISON	0	0	0	0	81	176	256	190	18	21	0	0	742	460
MILWAUKEE	0	0	0	0	30	98	230	203	16	21	0	0	598	450
WYOMING														
CASPER	0	0	0	0	0	16	254	119	5	1	0	0	395	458
CHEYENNE	0	0	0	0	0	7	90	86	10	0	0	0	193	327
LANDER	0	0	0	0	0	8	210	100	14	1	0	0	333	383
SHERIDAN	0	0	0	0				83	10	0	0	0		446

STORM SUMMARY

DECEMBER 1975

STATE	TORNADOES					HAILSTORMS				WINDSTORMS				[illegible]				@HEAVY SNOWSTORMS AND BLIZZARDS				[illegible]				¢ ALL OTHER			
Alabama												5																	
Alaska *																													
Arizona	1	1																											
Arkansas	1	1		1	5															1									
California											1	1														2	2	2	
Colorado																				[illegible]									
Connecticut																		1		3								4	
Delaware																				2								2	
Florida	3	2	1	30	6																								
Georgia												1																	
Hawaii *																													
Idaho												3												3				3	
Illinois												1																	
Indiana *																													
Iowa	1	1			4							6				4													
Kansas	1	1			[illegible]							6																	
Kentucky *																													
Louisiana										3	2	3			1	2													
Maine																				[illegible]									
Maryland & DC																				[illegible]		1	3	1		2	8	1	
Massachusetts										3		1						6	11	1								1	
Michigan											2	[illegible]																4	
Minnesota *																													
Mississippi *																													
Missouri	2	1			3			[illegible]	[illegible]		1	1								[illegible]									
Montana *																													
Nebraska	2	1			5							6								[illegible]									
Nevada *																													
New Hampshire																				5				3					
New Jersey *																													
New Mexico *																													
New York *																													
North Carolina	3	1			4				2		1	3										1	11	3					
North Dakota																				4									
Ohio *																													
Oklahoma	4	1		11	7			4												5									
Oregon	1	1			6																								
Pacific *																													
Pennsylvania																				5				4					
Puerto Rico																												[illegible]	[illegible]
Rhode Island																		1		3								4	
South Carolina												1																	
South Dakota																				1									
Tennessee *																													
Texas	1	1			3							5																	
Utah																				5									
Vermont *																													
Virginia												3											2	3					
Virgin Islands																												4	
Washington										1		3						3		5								9	[illegible]
West Virginia *																													
Wisconsin *																													
Wyoming																				5									

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

DECEMBER 1975

Herbert J. Thompson - Office of Hydrology

Major flooding occurred in the Pacific Northwest early in December with record or near record crest stages on several streams. Preliminary damage estimates indicate losses of $21 million in the western Washington coastal drainage and more than $6 million in the Columbia and Willamette Basins and the North Coastal drainage of Oregon.

Otherwise, flood losses were generally light, partly due to the season of the year. Minor to moderate flooding was reported on Great Lakes tributaries in Michigan and Indiana; several streams along the Atlantic coast; the Pearl and upper Tombigbee Rivers in Mississippi; the lower Grand River in Missouri; the middle Wabash River in Indiana; South Chickamauga Creek in Tennessee; the Cache, Black, and St. Francis Rivers in Arkansas; the Illinois River in Oklahoma; the Calcasieu River in Louisiana; the Navidad and lower Guadalupe Rivers in Texas; and the southern Oregon coastal drainage.

Small stream flooding was reported in southern Alabama and the Florida panhandle and minor ice jam flooding on the Plate River in Nebraska.

These and other hydrologic events of unusual significance or involving loss of life or property damage are discussed in more detail below.

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ST. LAWRENCE DRAINAGE		
Great Lakes Tributaries in Michigan, Indiana, and Ohio	Minor flooding occurred on several streams in this area. This was caused by melting of a 4 to 6-inch snowcover within 18 hours on the 14th followed by rains of 1 to 2 inches on the 15th-16th. The lower Grand, Shiawassee, Flint, Clinton, and Manistee Rivers in lower Michigan and the St. Mary's River in northeastern Indiana exceeded flood stage slightly at some points. Bankfull stages were reported at other points on some of these rivers and on the Kalamazoo, Maple, and Red Cedar Rivers in lower Michigan. Lowland flooding was reported along the Tiffin River in northwest Ohio on the 16th-17th. No stages were available.	0	N.A.
	ATLANTIC SLOPE DRAINAGE		
New Jersey Coastal Streams	Snow on the 25th changing to rain later in the day amounted to about 1.5 inches of precipitation and caused some runoff with the Millstone River, slightly exceeding flood stage at Blackwells Mills.	0	N.A.
South Atlantic Coastal Streams	During the first half of December a series of cold fronts moved across the area with rainfall amounts generally less than an inch resulting from each storm. Minor flooding occurred on the Lumber River on the 18th to the 21st. Later in the month heavier amounts of 1 to 2 inches fell on the 25th-26th and again on the 30th-31st. Flooding recurred on the Lumber River and continued into January with a crest 1.8 feet over flood stage on January 3. The Saluda River went over flood stage briefly at Chappells, SC, on the 31st. Lowland flooding on the lower Savannah River which began in November continued until the 29th with a second crest 1.2 feet over flood stage at Clyo, GA, on the 9th-10th. Monthly	0	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

DECEMBER 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ATLANTIC SLOPE DRAINAGE_Cont'd		
	rainfall totals of up to 8 inches in the mountainous headwaters and 3 to 4 inches in the lower reaches were reported over the area.		
	EAST GULF OF MEXICO DRAINAGE		
Florida Panhandle & Southern Alabama Streams	Rainfall was generally below normal during December. However, locally heavy rainfall the 29th to 31st caused some urban and small stream flooding. Evergreen, AL, received 5.80 inches during the night of the 30th, which resulted in the flooding of low lying areas of Brewton, Al, by Murder Creek. There is no gage at Brewton at present. The Conecuh and Escambia Rivers approached flood stage during this period.	0	N.A.
Pearl and Upper Tombigbee Rivers	Monthly rainfall over Mississippi was a little above normal except in the northeast with totals generally in the range of 3 to 5 inches. Amounts of 1.5 to 2 inches occurred the 25th-26th with minor flooding on the East Fork of the Tombigbee. Increased releases from Barnett Reservoir caused lowland flooding around Jackson, MS, on the Pearl River which extended into January. Minor flooding also occurred around Bogalusa, LA, which continued into January.	0	N.A.
	UPPER MISSISSIPPI BASIN		
	There was no excessive precipitation during December and only minor rises occurred on streams in the basin, except at Durand, WI, where an ice jam on the Chippewa River caused a 4.5 feet rise on the 19th. Ice jams caused 2 feet fluctuations on the Mississippi River between Wabash and Winona, MN. Navigation on the Mississippi ended on the 12th at St. Paul, MN, on the 13th at Winona, and on the 14th at Guttenberg, IA. This was the latest date on record at St. Paul.		
	MISSOURI BASIN		
Platte River	An ice jam in the vicinity of Schuyler, NE, caused minor flooding of low lying areas from the 16th to the 22d. No losses have been reported.	0	N.A.
Grand River	Several days of moderate precipitation late in November, mostly as snow followed by 1 to 2 inches of rain on November 30 resulted in the lower Grand River exceeding flood stage slightly at Sumner, MO, on the 1st.	0	N.A.
Kansas River Basin	A crest 1.6 feet over flood stage occurred on Stranger Creek at Easton, KS, on the 1st. This resulted from snowmelt and rainfall late in	0	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

DECEMBER 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	MISSOURI BASIN-Cont'd		
	November and is discussed in the November Report.		
Missouri River	On the 1st, Gavins Point Dam began decreasing its record releases which had been maintained at about 61,000 c.f.s. since July. The flows were decreased slowly to reduce bank cave-in until a minimum of 20,000 c.f.s. was reached. Lowland flooding above Rulo, NE, ended a few days after the 1st. No reporting stations were over flood stage during this period.		
	OHIO BASIN		
Wabash River	Precipitation over the Basin during December averaged about one inch above normal. The heavier amounts of 1 to 1.5 inches occurred November 30-December 1, about 0.5 inches on the 6th-7th, and from 1 to 1.5 inches on the 14th-15th. Lowland flooding occurred during the period of the 15th-20th on the main stem of the Wabash from above Lafayette, IN, to below Terre Haute, IN. A crest 6.2 feet over flood stage was reported at Lafayette with lesser flooding downstream. Damage is generally light at this season of the year.	0	N.A.
Tennessee River Basin	Two brief periods of minor flooding occurred on South Chickmauga Creek late in December. Rains of about 2 inches on the 26th and 1.5 inches on the 31st were reported at Chattanooga. Crests were less than a foot over flood stage.	0	N.A.
	WHITE BASIN		
Cache and Black Rivers	Lowland flooding occurred along the Cache and lower Black Rivers in Arkansas. Rains of up to more than 2 inches late in November were followed by amounts of 2 to 4 inches over these basins on the 5th-6th. The Cache River crested 1.6 foot over flood stage on the 16th with flooding continuing into January. The Black River crested 5.4 feet over flood stage at Black Rock on the 7th. Damage from this type of flooding is light at this season of the year.	0	N.A.
	ARKANSAS RIVER BASIN		
Illinois River	Precipitation over the Arkansas River Basin during December ranged from well below normal over the Colorado and Kansas portions to near or slightly above normal in Oklahoma. The only flooding reported was on the Illinois River which exceeded flood stage slightly at Tallequah, OK, on the 7th in response to rains averaging about 2 inches on the 5th-6th.	0	N.A.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

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Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	LOWER MISSISSIPPI BASIN		
St. Francis River	Two periods of flooding occurred on the St. Francis River with crests about 2 feet over flood stage at St. Francis, AR. The first period of flooding, the 6th-9th, was in response to rains of 2 to 4 inches on the 5th-6th following amounts of up to more than 2 inches in late November. The second period of flooding began the 27th after rainfall of more than 1.5 inches and extended into January.	0	N.A.
	WEST GULF OF MEXICO DRAINAGE		
Calcasieu River	Minor flooding occurred on the upper Calcasieu River at Hineston, LA, on the 27th-29th. This resulted from rains of 1.5 to 2 inches on the 25th. Heavy rains late in November with light amounts during December had kept soil moisture fairly high.	0	N.A.
Coastal Drainage in Texas	Although soil moisture conditions continued very dry over the western portion of this area significant flooding occurred on the lower Navidad and Guadalupe Rivers. This was in response to heavy rain on the 24th along a line from Goliad to Ganado. These communities reported 7.00 and 7.58 inches respectively for the storm. The Navidad crested 6.74 feet above flood stage near Ganado and the Guadalupe crested 6.3 feet over flood stage at Dupont. Over the eastern portion of the area soil moisture conditions were moist during December. In the lower Neches Basin 2 to 3 inches of rain on the 25th caused rises on streams with Village Creek cresting near flood stage at Kountze and Pine Island Bayou exceeding bankfull stage but cresting short of flood stage on the 29th.		
	PACIFIC SLOPE DRAINAGE		
South Coastal Streams in Oregon	Heavy rainfall of up to 7 inches over a low level snowpack late in November and the first few days of December caused strong rises on the Rogue, Coquille and Umpqua Rivers with some local flooding on smaller tributary streams of these rivers. The only river flooding was on the South Fork of the Coquille which crested twice during the period each time about 2 feet over flood stage. Some secondary roads and pastures were inundated.	0	N.A.
North Coastal Streams in Oregon	Serious flooding resulted from a series of storms during the period November 30 to December 4 which deposited rainfall amounts totaling from 17 to 23 inches over much of this area. Initial flooding began in the Wilson and Nehalem River basins along the northwest Oregon coast on the 30th and lasted 5 days on the Wilson River and about 3 days on the Nehalem River. Crests 6.2 and 5.4 feet over flood stage occurred on the	0	850

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	PACIFIC SLOPE DRAINAGE-Cont'd		
	Nehalem River at Foss and the Wilson River at Tillamook respectively. Greatest damage occurred at Tillamook where a 150-foot break in the Trask Dike and a 50-foot break in the Wilson River's south bank just north of town forced 10 families to vacate their homes, flooded more than a dozen businesses along Highway 101 north of town, blocked traffic, and uprooted a 1,000 gallon gasoline tank which spewed gasoline into the swirling water. About $500,000 damage was done to timber and dairy lands, and another $200,000 on slides and flood cleanup. Two trailer parks on the Necanicum River near Seaside were inundated but no trailers floated. Additional streams down the coast topped their flood stages by 1-3 feet with greatest on the Siuslaw River at Mapleton (flood stage 18 feet), which crested at 21.2 feet by noon on the 4th. Rainfall totaling 11.39 inches fell at Alsea Salmon Hatchery during the first four days of December, with greatest 24-hour total of 5.19 inches occurring the morning of the 1st. A mud and log slide at Mapleton blocked Oregon Highway 126, railroad tracks, and also damaged the water supply reservoir of Mapleton's 500 residents. Some 6 to 10 families left their homes near the Siuslaw River because of flooding.		
Upper Columbia River Basin in Idaho	Heavy rains of 1 to 3.5 inches combined with snowmelt to cause flooding along the Coeur D'Alene River early in December. Crests were about 2.5 feet over flood stage at Enaville and Cataldo. The warming trend caused an ice jam on the St. Joe River just below Calder cutting off access to the town and flooding some basements. The river crested 3 feet above flood stage at Calder with flooding for about 12 hours before the jam broke. No damage occurred downstream. Rains of up to more than an inch combined with melting snow and impervious frozen ground to cause local drainage flooding of fields and roads in many areas of eastern Washington and northern Idaho on the 26th. Losses of $5,000 occurred to roads in the Yaak River Basin on the 4th. The Yaak is a tributary of the Kootenai River in northwestern Montana.	0	N.A.
Middle Columbia River Basin	Serious flooding occurred in the Yakima River Basin early in December. According to the U. S. Geological Survey the highest stages and flows in 8 years of record were reported on the Teenaway River near Cle Elum and the Yakima River at Union Gap, WA. Crests at Weather Service reporting stations on the lower Yakima were more than 3 feet over flood stage. This flooding resulted from the heavy rains in western Washington, which extended over the Divide, and from excessive snowmelt caused by the warm temperatures. During the period November 30-December 4, Stampede Pass, WA, reported nearly	0	4,135

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

DECEMBER 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	PACIFIC SLOPE DRAINAGE-Cont'd		
	19 inches of precipitation, mostly rain, and the water-equivalent of the snowpack dropped by 5 inches. About 25 people were evacuated in the Pine Glen and Elk Meadows areas and a Milwaukee Road freight train lost 2 engines and 11 cars in Big Creek 4 miles east of Easton when the bridge washed out. Losses were estimated at $4,120,000 in the Yakima Basin. No flood related deaths were reported. The Wenatchee River crested 0.8 foot over flood stage at Peshastin, WA, with losses of $10,000. Heavy rains over the Walla Walla and Umatilla Basins caused light flooding along these streams with losses of $5,500 in the Walla Walla Basin.		
Willamette River Basin	Serious flooding also occurred on several tributaries of the Willamette River early in December. Rainfall during the period November 30-December 4 ranged up to 7 inches in the valley with greater amounts over the higher elevations of the Coastal and Cascade Ranges, with snowmelt also a factor. The most seriously affected streams were: the South Yamhill River with crests from 4 to 4.5 feet over flood stage; the Luckiamute and Pudding Rivers with more than 3.5 feet of flooding; and the Clackamas River and Johnson Creek with crests 1.7 and 1.5 feet over flood stage respectively. Minor flooding was reported on the Santiam, Mary's and Tualatin Rivers.	0	1,152
Lower Columbia River	Flooding occurred on the main stem of the Columbia River around Longview, WA, with a crest 1.4 feet over flood stage there on the 5th. Although neither the Willamette nor the Cowlitz Rivers were reported over flood stage, heavy inflow from these streams plus heavy local inflow from the rains discussed above apparently caused this one point on the Columbia to exceed flood stage.	0	N.A.
Coastal Streams in Washington	Major flooding occurred in this area of western Washington early in December. A record crest stage was reported on the Snohomish River at Snohomish and the Cedar River at Renton and near record stages were observed on the Chehalis and Snoqualmie Rivers. The following discussion was exerpted from a report on the flooding by C. T. Beach of the Seattle Weather Service Forecast Office: Pre-Flood Weather Patterns - Weather Discussion Pacific weather patterns prior to the period of the floods prescribed the route of very warm and moist air which was the source of prolonged heavy rain over western Washington and the Cascade Mountains. A strong high pressure pattern persisted over the	0	21,000

Basins and Streams | FLOOD EVENT | Lives Lost | Preliminary Estimate of Property Damage (thousands of dollars)

PACIFIC SLOPE DRAINAGE-Cont'd

eastern Pacific from November 26th until early on November 29th. This pattern stretched from 20°N latitude northward to 55°N with a central axis about 750 miles west of the Washington Coast. West of this high was a vigorous elongated low pressure pattern. In the boundary between these two systems there developed a strong northward flow of almost tropical air. This fast moving air mass was deep. Changes in the upper air patterns associated with the surface weather systems indicate very well the arrival of the warm air in the extreme north part of the Gulf of Alaska on November 28th.

Shortly after this the north part of the eastern Pacific high weakened to permit the development of a low pressure center with an associated frontal system in the extreme north part of the Gulf of Alaska just west of Sitka, AK. The continued development of this surface low hastened further deterioration of the protective high pressure west of the Washington Coast.

Early on the 30th warm moist Pacific air originating 1500 miles westward in the Pacific crossed the Washington and Oregon coastline. Snow began falling over the Cascades late on the 29th and the rate of fall became increasingly heavy as the warmer air arrived. Snow in the mountains changed to heavy rain by the afternoon of the 30th.

Indexing the events taking place at the headwaters of many rivers was the weather at the Stampede Pass weather station at 4000 feet in the Cascades. Snow and then rain fell continually at Stampede Pass for 70 hours. The rain then diminished to less than measureable amounts for two hours between 6 P. M. and 8 P. M. on December 2d. Rain resumed after that time and continued for 35 hours more. The rate of rainfall was continually moderate to heavy, beginning as a heavy rate of fall after 3 P. M. on November 30th which continued through 11 P. M. December 1st. 6.84 inches of rain fell in the 24 hours ending at 11 P. M. on the 1st.

A total of 18.81 inches of rain fell at Stampede Pass in five days and five hours from 8 P. M. on November 29th to midnight between December 4th and 5th. There were 44 inches of snow on the ground at the station at 4 A. M. December 1st. The water equivalent of the snow pack was then 11.9 inches or 27% water. On the 4th there were 16 inches of snow on the ground with a water content of 6.6 inches or 41%.

The total of 6.75 inches in 24 hours on the 1st is estimated to have a return period greater than 50 years.

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)

PACIFIC SLOPE DRAINAGE-Cont'd

Snoqualmie River

The first of the lower river basins to show significant rises after the deluge of rain began were those of the Snoqualmie and Skykomish Rivers (which join to form the Snohomish River) and the Cedar River.

The Snoqualmie Falls of the Snoqualmie River rose from a flow of 4510 cubic feet per second (c.f.s.) to 10 P. M. on November 30th to 10,350 c.f.s. at 6 A. M. December 1st and continued to rise rapidly. In seven more hours that flow had more than doubled and downstream at Carnation the warning stage of 51 feet had been reached. Flood stage (54 feet) at Carnation was reached by midnight on the 2d and the river was rising at a rate of one half foot per hour.

Upstream at Snoqualmie Falls the flow reached a preliminary crest at a flow rate of 47,380 c.f.s. at 10 A. M. on the 2d. After that time the flow diminished gradually in response to a short lull in the heavy rain at upstream points. But after 9 P. M. that same day the river began to rise again. The flow crest at the Falls was reached at 6 A. M. on the 3d at a flow rate of 52,210 c.f.s.

In the lower valley below the Falls at Carnation the reflection of diminishing flow at the Falls produced a flat preliminary crest of 59.2 feet - more than five feet above flood stage - at 7 P. M. on the 2d. This flattening continued with only a slight fall to 59.0 feet by 6 A. M. on the 3d. The river then rose to the final crest stage at Carnation at 59.3 feet at noon the same day. The river receded slowly from the final crest stage remaining above flood stage of 54 feet until nearly 3 P. M. on the 5th. The river returned to below bankfull stage by 8 A. M. the 6th.

The Skykomish River

The other branch of the Snohomish River - the Skykomish - began to rise rapidly near Gold Bar during the evening of November 30th and continued to rise through December 1st reaching the flood stage of 15 feet at Gold Bar shortly before 1 A. M. on the 2d. The river continued to rise reaching the first of three crests - 19.28 feet, more than four feet above flood stage - at 8:30 A. M. December 2d. After low level snow had contributed to the runoff to the river and heavy rainfall had diminished for a short time the river receded and then rose in response to heavier rainfall. The major crest stage of 19.7 feet - 4.7 feet above flood stage - was reached at Gold Bar gage at 3 A. M. on the 3d.

The river again receded and then crested once

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)

PACIFIC SLOPE DRAINAGE-Cont'd

more at 19.17 feet at 6 A. M. on the 4th. Colder and drier air then moved over the Skykomish basin cutting off the rain and the river began to fall rapidly. The river level dropped to 16.1 feet by noon on the 4th and the river returned to below flood stage (15 feet) at 4:30 P. M. that same day. The river continued to recede.

Snohomish River

The water from the rapidly rising Skykomish River reached the main stem of the Snohomish River first. The Snohomish River at Snohomish began to rise significantly after 3 A. M. on the 1st. At 11 P. M. on the 1st the flood stage of 25 feet was reached and passed and the river continued to rise rapidly. Two high tides in Puget Sound at the river mouth between 4:30 A. M. and 3 P. M. on the 2d aided the rise in the river at Snohomish 10 miles upstream. By 9 P. M. on the 2d a river stage of 32.38 feet was recorded at Snohomish. This was 7 feet above flood stage and indicated that over flow was occurring over many dikes in the lower Snohomish valley. Shortly after this river stage was recorded, a sharp drop in the river level indicated that dikes had broken upstream. A flood control pumping station was destroyed, and the dike in which it was built was breached. The pumping station was in the French Creek Flood Control District upstream from the City of Snohomish and between Snohomish and Monroe. The river rushed through the break and covered several thousands of acres of farmland previously protected by the dike.

The river gage at Snohomish indicated a drop in river level to 30.93 feet at 3 A. M. on the 3d. At about this time the flood from the Snoqualmie Basin combined with the Skykomish Flood in lower Snohomish valley, and the Snohomish flood level began to rise again. At this time almost no stream flow relationships existed in the lower Snohomish River Basin since dikes were breached and water had spread across the valley. The flood crested at 33.16 feet at the Snohomish gage between midnight and noon on the 4th. (The telephone telemetry at the Snohomish gage was inoperative between those hours. The crest was taken by U. S. Geological Survey from a high water mark outside the well.) This crest exceeded the old record crest of 30.89 feet in 1959 by more than 2 feet. A stage of 35.0 feet occurred in 1906 before records began. After noon on the 4th (the gage height was 33.0, 8 feet above flood stage) the flood began to recede slowly. At 3 A. M. on the 5th, the Snohomish River gage still indicated 32.4 feet and the level of the flood only dropped to 30.7 feet by 4:30 P. M. that same day. Thirty hours later the water level had dropped to flood stage (25 feet). At 8:30 A. M. on the 7th the gage reading at Snohomish was 22.92 feet and the river

PACIFIC SLOPE DRAINAGE-Cont'd

continued to fall slowly.

Major damage occurred in the Snohomish Basin from this record flooding. About 1,300 beef and dairy cattle were drowned, 130 homes were flooded and 35,000 acres in Snohomish County and several thousand more in King County were inundated.

Cedar River

The Cedar River Basin was another area in which flood damage was severe. This was due in part to the fact that no major flooding had occurred in the basin for the past 25 years although the river is relatively uncontrolled below the dam at Chester Morse Lake. Residential and a little commercial development had expanded within the flood plain during that time.

Significant rises in the river below Chester Morse Lake began early on the 1st. At 7 A. M. the Landsburg river gage read 3.8 feet and the gage downstream at Renton read 8.9 feet. Flood stage at Landsburg is considered to be 5.5 feet and 10 feet at Renton. At Landsburg flood stage was reached at 10 P. M. the 1st.

After that time the river rose steadily to a crest stage of 8.4 feet recorded first at 3 A. M. on the 3d. The river remained at that level or only slightly below for the next 29 hours, reaching a final crest stage of 8.49 feet sometime between the hours of 4 A. M. and 8 A. M. on the 4th. A slow falling trend began after 8 A. M. but the river level remained above 8 feet at Landsburg until after 5 P. M. on the 4th.

At the time of the final crest stage colder and drier air spread over western Washington to the Cascades cutting off heavy rain. But the river receded slowly. The river level did not return to flood stage (5.5 feet) until after 3 P. M. on the 6th.

The Cedar River had been above flood stage for four days and eighteen hours and for several more hours downstream to the mouth at Renton. This undoubtedly increased the property damage. Fragmentary data reported from the Renton gage was not considered reliable. However, the crest of 14.2 feet reported by the U. S. Geological Survey is a new record at that point.

Stillaguamish River

In the Stillaguamish River Basin rain fell at the average rate of more than two inches per 24 hours at both Darrington and Verlot ranger stations during the four days November 30th through December 3d. The river responded quickly. A river level of a little more than 4 feet measured

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)

PACIFIC SLOPE DRAINAGE-Cont'd

at 4 P. M. November 30th at the North Fork river gage rose to ten feet by 11 P. M. December 1st. On the south fork of the Stillaguamish near Granite Falls the rise was even more dramatic. A 4.9 foot level at 3 A. M. November 30th changed to 11.7 feet by 1 P. M. December 1st. Both branches of the river continued to rise rapidly.

At Arlington on the main stem of the river the warning stage of 13 feet was reached at 7:45 P. M. on the 1st. Flood stage at Arlington - 16 feet - was reached at about 6 A. M. on the 2d. The rapidly rising river crested the first of three times between 1:30 P. M. and 3:30 P. M. at 18.75 feet that same day.

After receding to near 17 feet the river rose to a second crest of 18.50 feet at 7 A. M. on the 3d at Arlington.

The river level dropped again - this time to 14.50 feet, 1.5 feet below flood stage - at 8:45 P. M. on the 3d but rose to a crest a third time at 17.90 feet at 7 A. M. on the 4th.

The heavy rain stopped over the upper Stillaguamish Basin after 2 A. M. on the 4th. By 8 A. M. that day the river began to recede at Arlington. The river returned to flood stage at 11:30 A. M. and was back within its banks at 3 P. M.

Damage in the Stillaguamish basin is believed to have been relatively light.

Skagit River

The largest river system in the coastal drainage - the Skagit - responded to the heavy rain a little more slowly. Tributaries such as the Sauk River rose significantly on the 1st but it was only after 9 P. M. on that day that the main stem of the Skagit at Concrete began to rise steadily. Flood stage - 29 feet at Concrete - was reached at 10 A. M. on the 2d and then the river continued to rise rapidly. Shortly after midnight on the 3d the river level had risen to more than 34 feet - 5 feet above flood stage. The first crest at 35.75 feet was reached at Concrete at 8 A. M. on the 3d, after which the river receded slowly to a stage of 33.59 feet at 6 P. M. the same day.

The river rose again to reach a second crest stage of 36.80 feet at about 6 A. M. on the 4th. With the ending of the rain a slow falling trend began at Concrete after that time and by 4:30 P. M. that day the stage at Concrete was 34.20 feet -- still 5 feet above flood stage but falling. By 8 A. M. on the 5th the river level had dropped back to just below flood stage of 29 feet and

PACIFIC SLOPE DRAINAGE-Cont'd

the river continued to fall.

Downstream at Mount Vernon significant rises in the river level began during the evening of the 1st and continued during the early morning of the 2d. The river stage at 3 A. M. on the 2d at Mount Vernon was 21.4 feet but was 2 feet higher 5.5 hours later. Flood stage - 28 feet at Mount Vernon - was reached at 7 P. M. on the 2d and at that time the river was rising at a rate of almost one foot every three hours.

From 3 A. M. on the 3d until 9 A. M. the rate of rise at Mount Vernon slowed. A more rapid rise began after 9 A. M., beginning at a stage of 30.9 feet until a flattening of this rise began at 9 P. M. at a stage of 34.4 feet - more than 6 feet above flood stage. This flattening continued until 6 A. M. on the 4th when a stage of 34.7 feet was recorded. From that point a river level rise began and continued to a crest stage at Mount Vernon of 35.5 feet at 6 P. M. The crest was flat remaining at that level until a slow falling trend began after midnight on the 5th.

At 3 A. M. on the 5th the recorded height of the river was 35.2 feet and the rate of fall of the river level then increased. At 4:30 P. M. the stage was 31.5 feet and by 10:30 P. M. the stage was down to 29.4 feet, less than 2 feet above flood stage. The river stage at 3 A. M. on the 6th was 28.5 feet, just .5 foot above flood stage, and the river continued to fall.

The December 1975 flood in the Skagit Valley ranks fifth in magnitude to floods of record since 1909. The next greater flood was that of 1951.

Nooksack River

In the Nooksack River Basin flooding began below Deming early on the 2d and continued in the lower valley until the morning of the 5th.

Steady rises in the river level at Deming began early on the 1st. The recorded river stage at 3 A. M. that day was 7.15 feet. Twenty-four hours later flood stage - 12 feet - had been surpassed and the river continued to rise.

On the 3d at 3 A. M. the crest stage of 15.67 feet at the Deming gage occurred. After that time the river level fell slowly to 13.3 feet at 9 P. M. on the 3d. A rising trend then resumed and a second minor crest stage of 14.39 feet was reached at 5 A. M. on the 4th.

When the colder and drier air arrived early in the morning of the 4th ending rain in the basin, the river receded rapidly at Deming, returning

PACIFIC SLOPE DRAINAGE-Cont'd

to below flood stage by 4:30 P. M. that same day.

The Nooksack Valley probably suffered the least damage of all of the river basins in northwest Washington during this flooding episode.

Chehalis River

Headwaters of the Chehalis River originate at relatively low elevations except for one tributary which rises at an elevation near 5000 feet in the Cascade Mountains.

Heavy rain in the upper basin began early on the 30th and spread to lower headwaters points during the day. At Centralia the river responded slowly to this rain until 4 P. M. that day. The river stage at Centralia at that time was 53.4 feet and a rapid rise began. By 8 A. M. on December 1st the river had risen to 59.1 feet - an increase of nearly 6 feet in 16 hours.

During the next 24 hours the rate of rise was slower but continued steadily. Flood stage - 63 feet at Centralia - was reached by 4 P. M. on the 2d, 48 hours after significant rises began. The river continued to rise steadily to a sharp crest at 71.17 feet - more than 8 feet above flood stage at Centralia - shortly after midnight on the 5th. The rain over the basin had almost completely stopped nearly 24 hours earlier than the time of the crest. Because of this the river level dropped more rapidly than it had risen at Centralia. By 4:30 P. M. on the 5th, 16 hours after cresting, the level had dropped nearly 4 feet to a stage of 67.5 feet. In 24 more hours - at 4:30 P. M. on the 6th - the river level had returned to below flood stage at Centralia and the river continued to fall.

This flood on the Chehalis ranked second in floods of record in terms of height of the crest. Only the great flood of January 1972 crested higher.

Skookumchuck River

The Skookumchuck River is a tributary of the Chehalis River entering the Chehalis at Centralia. Heavy rain over the headwaters on November 30th did not affect the lower valley between Bucoda and Centralia until after 4 P. M. that day. Significant rises in the river level began after that time at the Centralia river gage. The river rose steadily from a level of 75.9 feet at 4 P. M. on the 30th to 82.3 feet at 5:30 A. M. on December 2d. At that point the rate of rise slowed and then levelled off for a period of 4 hours ending at 8 P. M. on the 2d. The river rose again to reach flood stage at Centralia - 85 feet - at about 9 P. M. on the

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

DECEMBER 1975

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	PACIFIC SLOPE DRAINAGE-Cont'd		
	3d. Twenty-five hours later at 10 P. M. on the 4th the river crested at 85.46 feet.		
	The rain had stopped falling in the Skookumchuck Basin early in the morning of the 4th and since runoff had ceased the river began to fall slowly. The river returned to flood stage shortly after 3 A. M. on the 5th. After that time the rate of fall increased. In the next 14 hours the river dropped 3 feet to 82.0 feet at the Centralia gage and the river continued to recede although at a slower rate. The Skookumchuck River was only a little above flood stage for approximately 29 hours. The latter part of this time frame included that time at which the crest stage was reached on the Chehalis River at Centralia. It would appear that some of the flooding from the Skookumchuck was back water from the Chehalis River. Damage is believed to have been light in this basin.		
	This flooding in western Washington was created by very heavy orographic rain over high headwaters such that the whole of each river basin was involved. All tributaries contributed to flooding. Some of these reached stages that caused major property damage within the individual tributary basins as well as adding to damage in the main stem basin. Such was the case with the Sultan River which is a tributary of the Skykomish River. Stage reports are not available on these tributary streams.		
	Preliminary estimates of damage by the Corps of Engineers indicate losses of $21 million. However, assessments of damage continue and final figures will not be available until after the spring planting season. Seven western Washington counties were declared disaster areas by the State and Federal Governments. About 4,800 people were displaced, 1,560 residences suffered flood damage, and 108,900 acres were inundated.		
	Record peak discharges were reported on several streams in the area by the U. S. Geological Survey with recurrence intervals of up to 70 years on the Cedar River and the Raging River in the Snohomish Basin.		
	ALASKA		
South Central Alaska Streams	The cold temperatures of November continued for the first half of December causing further icing of stream beds and flood plains in south central Alaska. Little Rabbit Creek near Anchorage went out of banks on the 19th due to icing of the stream bed and slush ice jamming. The flooding was minor and in part due to light rains and some snowmelt from warm temperatures in the third week. Several homes and roads were flooded.	0	N.A.

Basins and Streams	FLOOD EVENT	Lives Lost	Preliminary Estimate of Property Damage (thousands of dollars)
	ALASKA-Cont'd		
	Almost the entire braided channel flood plain of the Matanuska River was covered by icings (aufeis) by the 28th.		
	PUERTO RICO		
	Most river basins in the northern sections of the island received nearly daily rains during December while the southern sections were limited to frequent heavy shower activity during the first two weeks of the month only. On the 9th there were very intense rains along the northeastern sections early in the morning with three-hour totals ranging between 3 and 5 inches centered in the Rio Piedras Basin. Flooding occurred in the lower basin from about the town of Rio Piedras into Puerto Nuevo and along the Margarita Creek where bank overflow occurred in the University Gardens Urbanization and the industrial park along Highway 2 to the west of San Juan City. This flooding is compounded by a drainage problem in that there is no outlet on the San Juan Bay end of Margarita Creek and the water backs up into these areas. A similar flood occurred in June 1970 in these areas with about 12 inches of rain in 6 hours over the same basin. Minor road damage and a few landslides were reported in the interior portions of the island but no other river flooding was reported although the showers were in the order of 3 to 5 inches in these areas over about a 6 hour period. A stagnant upper air trough remained over the Island until the 12th causing daily heavy shower activity in the interior and western portions.	0	N.A.

FLOOD STAGE DATA

[illegible]

River and station	F[illegible] stage	–dates From–	To–	Stage	Date
	Ft			[illegible]	
[illegible]					
Grand:					
[illegible]	[illegible]	18	[illegible]	12.1	19
[illegible]					
[illegible]	[illegible]	17	19	7.2	18
Shiawassee River:					
[illegible]	7	15	[illegible]	7.1	15
Flint River:					
Flint, MI	11	15	15	[illegible]	15
Clinton River:					
Fraser, MI	13	15	15	13.2	15
St. Marys:					
[illegible]	15	16	[illegible]	15.22	16
[illegible]					
[illegible]					
[illegible]	7	27	27	7.3	27
[illegible]					
Lumberton, NC	[illegible]	[illegible]	21	9.3	19-20
		26	[illegible]	10.8	Jan 3
[illegible]					
Chappells, SC	[illegible]	31	1	14.7	31
Savannah:					
[illegible]	11	Nov 18	29	A12.2	9-10
EAST GULF OF MEXICO DRAINAGE					
East Fork Tombigbee:					
Fulton, MS	[illegible]	[illegible]	[illegible]	16.18	27
[illegible]					
Jackson, MS	18	29	1	23.6	Jan 3
[illegible]	15	[illegible]	1	15.8	29-30
Missouri Basin					
Stranger Creek:					
[illegible]	15	[illegible]	[illegible]	[illegible]	1
Grand River:					
Sumner, MO	[illegible]	1	1	26.65	1
Ohio Basin					
[illegible]					
[illegible]	11	15	18	17.21	[illegible]
Covington, IN	[illegible]	17	18	#17.35	18
[illegible]	14	16	[illegible]	#16.10	18
Terre Haute, IN	[illegible]	18	20	#14.3	18
South Chickamauga Creek:					
[illegible]	10	[illegible]	27	10.59	26
		31	Jan 1	10.48	[illegible]
White Basin					
Cache:					
[illegible]	[illegible]	[illegible]	[illegible]	8.6	[illegible]
Black:					
Black Rock, AR	[illegible]	[illegible]	[illegible]	19.4	7
Arkansas River Basin					
Illinois:					
[illegible]	[illegible]	[illegible]	7	11.26	[illegible]
Lower Mississippi Basin					
St. Francis:					
St. Francis, AR	18	[illegible]	[illegible]	20.31	7
		27	[illegible]	20.10	30
WEST GULF OF MEXICO DRAINAGE					
Calcasieu:					
Hineston, LA	12	[illegible]	29	12.4	27
[illegible]					
[illegible]	21	[illegible]	[illegible]	27.74	25
Guadalupe:					
[illegible]	[illegible]	24	28	26.3	25
PACIFIC SLOPE DRAINAGE					
South Fork Coquille:					
[illegible]	35	1	2	36.85	[illegible]
		[illegible]	[illegible]	37.05	[illegible]
Siuslaw:					
[illegible]	18	[illegible]	[illegible]	21.18	[illegible]
[illegible]					
Tidewater, OR	18	4	[illegible]	19.6	4
[illegible]					
Siletz, OR	16	[illegible]	4	E17.5	[illegible]
Nestucca:					
[illegible]	18	4	4	E19.4	[illegible]
Wilson:					
Tillamook, OR	11	[illegible]	5	[illegible]	4
[illegible]					
[illegible]	[illegible]	[illegible]	6	19.2	4
Columbia Basin					
[illegible]					
Troy, MT	8	[illegible]	4	8.76	4
St. Joe:					
Calder, ID	[illegible]	[illegible]	2	16.0	2
Coeur D'Alene:					
Enaville, ID	72	4	5	[illegible]	5
Cataldo, ID	43	4	[illegible]	45.5	5
Wenatchee:					
Peshastin, WA	13	[illegible]	4	13.8	[illegible]
Naches:					
Naches, WA	17	4	5	18.15	4
Yakima:					
Parker, WA	[illegible]	2	6	13.12	4
Kiona, WA	[illegible]	[illegible]	7	E16.4	[illegible]
Walla Walla:					
Touchet, WA	12	8	[illegible]	12.28	[illegible]
Umatilla:					
Pendleton, OR	8	7	[illegible]	8.65	7
Marys:					
Philomath, OR	20	[illegible]	4	20.31	4
Santiam:					
[illegible]	[illegible]	[illegible]	4	15.3	[illegible]
Luckiamute:					
Suver, OR	27	[illegible]	5	30.6	[illegible]
South Yamhill:					
[illegible]	[illegible]	Nov 30	1	8.85	Nov 30
				12.25	[illegible]
Whiteson, OR	38	[illegible]	6	[illegible]	5
Pudding:					
Aurora, OR	20	[illegible]	[illegible]	[illegible]	5
Tualatin:					
Dilley, OR	17	[illegible]	[illegible]	[illegible]	[illegible]
Clackamas:					
[illegible]	13	[illegible]	[illegible]	14.7	[illegible]

FLOOD STAGE DATA

(All dates in December unless otherwise specified)

River and station	Flood stage	Above flood stages—dates From—	Above flood stages—dates To—	Crest Stage	Crest Date
	Ft			*Ft*	
Columbia Basin-Cont'd					
Johnson Creek:					
Sycamore, OR	9	4	4	9.45	4
Columbia:					
Longview, WA	12	4	6	13.4	5
Skookumchuck:					
Centralia, WA	85	3	5	87.40	4
Satsop:					
Satsop, WA	34	1	1	[illegible]	26
Chehalis:					
Centralia, WA	63	2	6	71.17	5
Cedar:					
Landsburg, WA	5.5	1	6	8.49	4
Renton, WA	9.5	U	[illegible]	14.2	4
Skykomish:					
Goldbar, WA	15	2	4	19.67	3
Snoqualmie:					
Carnation, WA	54	1	5	59.3	3
Snohomish:					
Snohomish, WA	25	1	6	33.16	4
Stillaguamish:					
Arlington, WA	16	2 4	3 4	18.75 17.90	2 4
Skagit:					
Concrete, WA	29	2	5	36.80	4
Mount Vernon, WA	28	2	6	35.5	4
Nooksack:					
Deming, WA	17	1	4	19.67	3

1/ See Previous Monthly Reports for Additional Crest Information.

RAWINSONDE DATA

Averages of [illegible] values

ALBANY, NY
[illegible] MB

Pressure	N	Height	Temperature	Dew point	Resultant Wind Direction	Resultant Wind Speed
SFC	31	86	-5.0	-8.8	[illegible]	[illegible]
1000	[illegible]	188	-5.4	-9.1	[illegible]	[illegible]
950	31	579	-5.1	-9.1	28	[illegible]
900	31	1,003	-5.9	-10.2	28	[illegible]
850	31	[illegible]	-6.5	-11.5	[illegible]	[illegible]
800	31	[illegible]	-7.6	-13.9	27	[illegible]
750	31	[illegible]	-8.3	-16.8	27	[illegible]
700	31	2,960	-10.4	-19.2	26	[illegible]
650	31	[illegible]	-12.8	-22.1	26	[illegible]
600	31	[illegible]	-15.8	-25.6	26	[illegible]
550	31	4,786	-19.7	-29.8	26	[illegible]
500	31	[illegible]	-24.1	-34.7	26	[illegible]
450	31	6,249	-29.1	-40.0	26	[illegible]
400	31	[illegible]	-34.9	[illegible]	26	[illegible]
350	31	[illegible]	-41.7	[illegible]	26	[illegible]
300	31	9,029	-48.8		26	[illegible]
250	31	10,211	-54.4		27	[illegible]
200	31	[illegible]	-55.3		[illegible]	[illegible]
175	31	12,488	-55.3		27	[illegible]
150	31	13,470	-56.1		[illegible]	[illegible]
125	31	14,626	[illegible]		[illegible]	[illegible]
100	31	[illegible]	-59.0		[illegible]	[illegible]
80	30	17,426	-59.5		26	[illegible]
70	30	18,263	-59.1		26	[illegible]
60	[illegible]	19,229	-59.4		26	[illegible]
50	28	[illegible]	-58.9		27	[illegible]
40	28	21,770	-59.3		27	[illegible]
30	28	23,576	-58.5		27	[illegible]
25	[illegible]	[illegible]	-58.2		[illegible]	[illegible]
20	28	26,128	-58.2		27	[illegible]
15	[illegible]	[illegible]	-57.5		28	[illegible]
10	[illegible]	30,494	-56.0			

ALBUQUERQUE, NM
[illegible] MB

Pressure	N	Height	Temperature	Dew point	Resultant Wind Direction	Resultant Wind Speed
SFC	31	1,619	-2.5	-7.1	[illegible]	1.8
800	31	2,014	1.8	-9.2	32	3.5
750	31	[illegible]	[illegible]	-12.1	30	5.5
700	31	[illegible]	-1.6	-15.2	[illegible]	7.0
650	31	3,670	-4.6	-18.0	30	8.0
600	31	[illegible]	-8.4	-22.5	[illegible]	8.8
550	31	4,966	-12.5	-27.7	[illegible]	9.4
500	31	5,687	-17.4	-32.3	[illegible]	10.6
450	31	6,468	-23.0	[illegible]	[illegible]	[illegible]
400	31	7,320	-29.6	[illegible]	28	12.8
350	31	8,262	-36.6	-47.7	[illegible]	13.3
300	31	9,309	-44.3		[illegible]	15.2
250	31	10,509	-52.5		[illegible]	18.7
200	30	11,935	-58.7		27	19.5
175	30	12,771	[illegible]		[illegible]	17.7
150	30	13,734	-60.2		[illegible]	15.3
125	30	14,864	-62.8		[illegible]	[illegible]
100	30	16,233	-64.5		[illegible]	12.5
80	[illegible]	17,590	-65.1		[illegible]	9.3
70	29	18,406	-64.1		28	6.7
60	29	19,353	-63.0		28	4.2
50	28	20,477	-60.7		[illegible]	2.2
40	[illegible]	[illegible]	-58.4		34	2.3
30	24	23,691	-55.8		[illegible]	2.5
25	[illegible]	24,854	-55.3		[illegible]	2.0
20	20	26,282	-53.1		31	3.7
15	17	28,138	-51.9		29	7.1

AMARILLO, TX
[illegible] MB

Pressure	N	Height	Temperature	Dew point	Resultant Wind Direction	Resultant Wind Speed
SFC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.5
900	[illegible]	1,115				
850	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.2
800	[illegible]	1,979	4.6	-10.4	28	5.8
750	30	2,503	2.3	-12.8	28	[illegible]
700	30	[illegible]	[illegible]	[illegible]	29	6.7
650	30	[illegible]	-4.0	-19.0	[illegible]	7.8
600	30	4,273	-7.8	-23.3	28	8.5
550	30	4,943	[illegible]	[illegible]	[illegible]	9.4
500	[illegible]	5,664	[illegible]	[illegible]	[illegible]	11.8
450	30	[illegible]	[illegible]	[illegible]	[illegible]	13.6
400	30	7,298	-29.3	-42.0	29	13.9
350	30	8,240	[illegible]	[illegible]	[illegible]	14.7
300	30	[illegible]	-45.1		29	17.1
250	[illegible]	10,482	-52.9		28	[illegible]
200	30	11,902	-58.7		28	21.0
175	[illegible]	12,746	-59.7		[illegible]	18.2
150	[illegible]	[illegible]	[illegible]		[illegible]	18.6
125	29	14,836	-63.2		28	16.8
100	[illegible]	[illegible]	[illegible]		[illegible]	14.1
80	28	[illegible]	[illegible]		28	12.1
70	28	18,378	-64.6		28	9.4
60	28	19,322	[illegible]		28	5.9
50	28	20,450	-60.9		[illegible]	3.1
40	27	21,842	-58.8		[illegible]	2.5
30	27	23,661	-56.0		32	2.2
25	26	24,824	-54.5		31	2.8
20	23	26,257	[illegible]		29	5.3
15	22	28,110	-52.3		28	[illegible]
10	[illegible]	30,743	-50.5			

ANCHORAGE, AK
[illegible] MB

Pressure	N	Height	Temperature	Dew point	Resultant Wind Direction	Resultant Wind Speed
SFC	[illegible]	[illegible]	-10.2	-15.9	[illegible]	[illegible]
1000	14	125	-12.7	[illegible]	[illegible]	[illegible]
950	31	[illegible]	-8.9	-15.2	04	2.7
900	31	852	-9.7	-16.8	06	2.9
850	31	1,292	-11.5	-19.0	07	2.2
800	[illegible]	[illegible]	-13.6	-21.2	09	2.5
750	[illegible]	[illegible]	-16.1	-23.6	13	3.5
700	31	2,760	-19.4	-26.8	17	[illegible]
650	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.7
600	31	3,890	-26.2	-34.7	22	3.7
550	[illegible]	[illegible]	[illegible]	[illegible]	23	4.6
500	31	5,186	-35.0	-40.3	[illegible]	4.9
450	31	5,913	[illegible]	[illegible]	[illegible]	6.1
400	31	6,711	-44.6	-46.7	[illegible]	[illegible]
350	31	[illegible]	-49.2		[illegible]	9.0
300	[illegible]	8,600	-51.7		[illegible]	11.6
250	30	[illegible]	-51.7		[illegible]	13.9
200	29	11,225	[illegible]		[illegible]	14.6
175	[illegible]	[illegible]	-50.8		26	15.8
150	29	13,099	-50.8		[illegible]	16.4
125	[illegible]	[illegible]	[illegible]		25	[illegible]
100	29	15,732	-52.2		26	[illegible]
80	[illegible]	[illegible]	[illegible]		[illegible]	21.2
70	[illegible]	[illegible]	-52.5		26	22.1
60	28	19,040	-53.0		26	23.6
50	28	20,213	[illegible]		27	25.4
40	28	21,645	-54.3		[illegible]	28.1
30	27	23,487	-54.4		27	32.7
25	[illegible]	[illegible]	-55.3		27	33.8
20	24	26,078	[illegible]		28	[illegible]
15	20	27,902	-57.2		28	43.4
10		30,473	-55.8			

[illegible]
[illegible] MB

Pressure	N	Height	Temperature	Dew point	Resultant Wind Direction	Resultant Wind Speed
SFC	31	[illegible]	2.9	[illegible]	16	2.1
1000	[illegible]	130	[illegible]	[illegible]	[illegible]	3.7
950	31	497	[illegible]	[illegible]	[illegible]	6.0
900	[illegible]	920	[illegible]	[illegible]	[illegible]	7.3
850	31	1,379	-5.3	-9.0	21	8.0
800	[illegible]	[illegible]	-7.6	[illegible]	[illegible]	9.3
750	31	2,352	-10.9	-16.0	22	11.6
700	[illegible]	2,879	-14.6	-21.4	23	12.5
650	31	3,430	-17.7	[illegible]	[illegible]	[illegible]
600	31	[illegible]	-21.2	-31.1	24	16.0
550	31	4,670	-24.9	[illegible]	[illegible]	16.9
500	31	5,357	-29.2	-36.3	25	19.3
450	31	6,102	-34.1	[illegible]	[illegible]	21.0
400	31	6,917	[illegible]	-44.0	26	21.7
350	[illegible]	[illegible]	[illegible]		[illegible]	24.6
300	[illegible]	[illegible]	[illegible]		26	27.8
250	31	10,017	-53.7		26	24.3
200	31	11,453	[illegible]		26	22.2
175	[illegible]	[illegible]	-52.0		27	20.6
150	[illegible]	13,311	[illegible]		27	19.5
125	31	14,486	-53.7		27	18.5
100	[illegible]	[illegible]	-55.4		[illegible]	17.9
80	29	17,337	-54.9		[illegible]	17.2
70	[illegible]	[illegible]	-55.0		[illegible]	17.0
60	[illegible]	[illegible]	-54.9		26	15.5
50	[illegible]	[illegible]	-55.1		[illegible]	16.5
40	27	21,768	[illegible]		29	16.9
30	[illegible]	[illegible]	-55.0		[illegible]	17.4
25	[illegible]	24,766	-56.2		29	20.4
20	18	26,176	[illegible]			
15	11	27,980	[illegible]			

ATHENS, GA
992 MB

Pressure	N	Height	Temperature	Dew point	Resultant Wind Direction	Resultant Wind Speed
SFC	31	[illegible]	2.8	-.4	32	.9
1000						
950	31	595	5.6	-2.1	[illegible]	[illegible]
900	31	[illegible]	5.4	-3.6	26	4.9
850	31	1,504	4.1	-6.2	26	[illegible]
800	31	1,995	2.1	-10.4	26	9.4
750	31	2,515	.4	-13.0	26	[illegible]
700	[illegible]	3,066	-2.2	-16.9	26	[illegible]
650	[illegible]	3,651	-5.1	-20.1	26	[illegible]
600	31	[illegible]	-8.5	-23.9	26	[illegible]
550	31	4,946	-12.8	-27.5	26	[illegible]
500	31	5,666	-17.8	-31.4	26	[illegible]
450	31	6,446	-23.4	-36.3	27	[illegible]
400	31	7,297	-29.7	-41.0	27	[illegible]
350	31	8,238	-36.6	-45.8	27	[illegible]
300	31	9,286	-44.4		27	[illegible]
250	31	10,486	-52.3		27	[illegible]
200	31	11,909	-57.7		27	[illegible]
175	31	12,748	-59.5		27	[illegible]
150	30	13,710	-61.0		27	[illegible]
125	30	14,838	-63.0		27	[illegible]
100	30	16,203	-65.8		27	[illegible]
80	[illegible]	17,554	-66.9		27	[illegible]
70	[illegible]	18,359	-65.7		28	[illegible]
60	[illegible]	19,300	-63.8		28	[illegible]
50	[illegible]	20,424	-62.0		28	[illegible]
40	[illegible]	21,814	-59.3		29	[illegible]
30	[illegible]	23,627	-57.0		28	[illegible]
25	24	24,785	-55.7		28	4.1
20	24	26,214	-53.3		29	7.0
15	20	28,097	-50.6		27	13.6
10	[illegible]	30,768	-45.6		27	24.5

BARROW, AK
[illegible] MB

Pressure	N	Height	Temperature	Dew point	Resultant Wind Direction	Resultant Wind Speed
SFC	30	[illegible]	-30.0	-32.2	[illegible]	.5
1000	28	129	-26.9	-27.9	04	.7
950	30	493	-22.4	-25.1	[illegible]	1.9
900	30	892	-20.3	-24.2	08	1.9
850	[illegible]	1,316	-19.8	-25.5	[illegible]	1.1
800	30	1,765	-20.6	-27.1	02	.6
750	30	2,242	-21.8	-28.9	32	.6
700	30	2,748	-24.2	-31.1	[illegible]	.9
650	30	[illegible]	-26.9	-34.4	[illegible]	1.3
600	[illegible]	3,858	-30.3	-38.1	28	[illegible]
550	[illegible]	4,473	-33.8	-40.9	27	2.4
500	30	5,135	-38.1	-43.8	28	2.8
450	30	5,854	-42.6	-41.9	27	[illegible]
400	30	6,640	-48.1		27	3.8
350	30	7,512	-53.5		27	4.1
300	[illegible]	[illegible]	-58.2		[illegible]	5.2
250	[illegible]	9,630	-60.2		26	7.0
200	[illegible]	11,028	-58.3		[illegible]	[illegible]
175	30	11,869	-57.9		27	11.9
150	30	[illegible]	-57.8		[illegible]	13.2
125	[illegible]	13,990	-58.5		27	15.9
100	[illegible]	15,384	[illegible]		27	18.4
80	[illegible]	16,776	-60.5		[illegible]	22.7
70	26	17,606	-61.5		26	25.0
60	25	18,558	-61.9		27	27.2
50	19	19,672	-63.5		26	29.8
40	13	21,062	[illegible]		[illegible]	31.4

BARTER ISLAND, AK
1013 MB

Pressure	N	Height	Temperature	Dew point	Resultant Wind Direction	Resultant Wind Speed
SFC	31	15	-29.2	-30.5	[illegible]	2.1
1000	27	130	-27.0	-28.3	[illegible]	[illegible]
950	31	482	-22.1	-24.3	[illegible]	[illegible]
900	31	[illegible]	-19.7	-23.2	[illegible]	1.3
850	31	[illegible]	-19.0	-23.2	[illegible]	1.4
800	31	1,759	-19.6	-24.8	[illegible]	1.8
750	31	2,237	-21.2	-27.1	[illegible]	2.3
700	31	2,744	-23.6	-29.4	[illegible]	2.6
650	31	3,283	-26.3	[illegible]	[illegible]	3.2
600	31	3,858	-29.7	-35.1	[illegible]	3.5
550	31	4,474	-33.2	-37.4	[illegible]	3.9
500	31	5,139	-37.2	-40.0	[illegible]	4.7
450	31	5,860	-41.9	-40.7	[illegible]	5.4
400	31	6,649	-47.0		[illegible]	5.8
350	[illegible]	7,525	-52.4		[illegible]	6.4
300	31	8,507	-57.2		[illegible]	7.3
250	[illegible]	9,654	-58.7		[illegible]	9.9
200	31	[illegible]	-56.7		[illegible]	12.6
175	[illegible]	11,909	-56.4		[illegible]	14.2
150	31	12,887	-56.5		[illegible]	15.9
125	[illegible]	14,043	-57.2		[illegible]	[illegible]
100	31	15,452	-58.0		[illegible]	22.0
80	[illegible]	16,859	-59.2		[illegible]	26.3
70	[illegible]	17,692	[illegible]		[illegible]	28.3
60	[illegible]	18,650	-60.4		[illegible]	30.7
50	[illegible]	19,784	-61.2		27	34.5
40	26	21,178	-62.8		[illegible]	[illegible]
30	23	[illegible]	-64.4		[illegible]	43.3
25	21	24,075	-64.9		[illegible]	46.5
20	16	25,440	-65.3		[illegible]	49.5
15	10	27,245	[illegible]			

BETHEL, AK
1000 MB

Pressure	N	Height	Temperature	Dew point	Resultant Wind Direction	Resultant Wind Speed
SFC	[illegible]	[illegible]	-16.3	-19.3	05	2.0
1000	[illegible]	[illegible]	-18.1	-20.7	02	1.2
950	31	429	-10.1	-13.9	09	1.8
900	31	846	-10.5	-15.7	12	1.2
850	31	1,286	-11.6	-17.3	22	.9
800	[illegible]	1,749	-13.3	-20.4	26	[illegible]
750	31	2,239	-15.5	-23.1	27	1.8
700	31	2,757	-18.6	[illegible]	[illegible]	1.7
650	31	3,305	-22.0	-29.3	28	2.4
600	31	3,890	-25.8	-33.0	27	3.0
550	31	4,515	-30.0	-36.1	27	3.6
500	31	5,188	-34.4	-40.5	27	4.6
450	31	[illegible]	[illegible]	-42.3	[illegible]	[illegible]
400	30	6,719	-43.9	-42.5	27	6.0
350	30	7,608	-49.0		27	7.1
300	30	8,607	-53.2		27	8.0
250	30	9,778	-54.2		26	8.5
200	[illegible]	[illegible]	-52.1		25	9.4
175	[illegible]	[illegible]	-51.9		25	10.0
150	[illegible]	[illegible]	-51.2		25	10.7
125	29	14,271	-51.3		25	[illegible]
100	[illegible]	[illegible]	[illegible]		25	12.8
80	29	17,170	-51.8		25	14.2
70	29	18,035	-52.1		25	15.1
60	28	19,027	[illegible]		25	16.2
50	28	20,207	-52.3		26	17.5
40	[illegible]	21,650	-52.5		[illegible]	[illegible]
30	26	23,502	[illegible]		26	20.4
25	25	24,685	-53.3		[illegible]	[illegible]
20	22	26,123	-53.3		[illegible]	23.4
15	16	27,948	-55.6		[illegible]	26.6

BISMARCK, ND
[illegible] MB

Pressure	N	Height	Temperature	Dew point	Resultant Wind Direction	Resultant Wind Speed
SFC	31	503	-9.4	-11.5	[illegible]	.6
1000						
950	23	583	-9.5	-12.0	29	1.3
900	31	[illegible]	-4.7	-10.3	29	3.6
850	31	1,430	[illegible]	-11.8	30	5.1
800	31	1,900	-5.1	-13.8	30	6.7
750	31	2,413	-6.9	-16.0	[illegible]	8.6
700	31	2,949	-9.5	-17.4	30	12.0
650	31	3,519	-12.5	-20.2	[illegible]	14.8
600	31	[illegible]	-16.0	-24.5	[illegible]	[illegible]
550	31	4,770	[illegible]	-29.3	30	17.5
500	31	[illegible]	-24.4	-33.7	[illegible]	[illegible]
450	31	6,237	-29.7	-38.0	29	20.8
400	31	7,060	[illegible]	-43.9	30	22.4
350	[illegible]	[illegible]	-42.0	-45.0	[illegible]	23.8
300	31	9,004	-49.9		[illegible]	25.4
250	31	10,181	-55.4		29	[illegible]
200	31	11,600	-56.0		[illegible]	25.5
175	31	12,452	-54.0		[illegible]	25.2
150	31	13,437	-55.6		29	[illegible]
125	31	14,597	-56.7		29	[illegible]
100	[illegible]	[illegible]	[illegible]		29	16.9
80	31	17,416	-57.7		30	14.8
70	[illegible]	[illegible]	[illegible]		30	12.1
60	29	19,229	-57.8		30	11.4
50	[illegible]	20,379	[illegible]		30	10.8
40	[illegible]	21,784	-57.8		30	9.9
30	26	23,604	-58.0		32	10.3
25	24	24,750	-57.9		[illegible]	[illegible]
20	20	26,157	-58.4		31	11.2
15	[illegible]	27,929	-58.1			

BOISE, ID
922 MB

Pressure	N	Height	Temperature	Dew point	Resultant Wind Direction	Resultant Wind Speed
SFC	31	871	-1.4	-4.1	[illegible]	[illegible]
900	31	1,063	.2	-3.2	31	.9
850	31	1,523	.7	-5.9	29	3.0
800	31	2,009	-.7	-6.7	28	[illegible]
750	31	2,523	-3.2	[illegible]	29	[illegible]
700	31	3,066	-5.8	-13.8	30	9.6
650	31	[illegible]	-8.8	-19.2	29	[illegible]
600	31	4,260	-12.3	-24.8	29	13.1
550	31	4,920	-16.2	-27.6	29	14.6
500	31	5,632	-20.5	-31.7	29	16.2
450	31	6,403	-26.1	-34.8	29	16.6
400	31	7,245	-32.2	-41.6	29	[illegible]
350	31	[illegible]	-39.3	-45.6	29	20.9
300	31	9,212	-46.8		[illegible]	[illegible]
250	31	10,400	[illegible]		[illegible]	25.5
200	30	11,821	-58.4		30	23.6
175	29	12,658	-58.2		30	[illegible]
150	[illegible]	13,628	-58.8		29	[illegible]
125	[illegible]	14,770	-59.8		29	[illegible]
100	[illegible]	16,158	-61.6		[illegible]	13.6
80	[illegible]	17,542	[illegible]		[illegible]	[illegible]
70	[illegible]	18,372	-60.4		30	7.9
60	[illegible]	19,334	-59.5		[illegible]	[illegible]
50	[illegible]	20,482	-58.4		32	[illegible]
40	[illegible]	21,888	-56.9		[illegible]	[illegible]
30	[illegible]	23,717	-55.8		[illegible]	[illegible]
25	[illegible]	24,882	-55.4		35	8.1
20	[illegible]	26,313	-54.9		[illegible]	7.9
15	[illegible]	[illegible]	-55.2		[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]			

BOOTHVILLE, LA
[illegible] MB

Pressure	N	Height	Temperature	Dew point	Resultant Wind Direction	Resultant Wind Speed
SFC	31	[illegible]	[illegible]	8.7	02	[illegible]
1000	31	[illegible]	12.3	7.5	06	[illegible]
950	31	604	9.7	3.9	15	[illegible]
900	31	1,053	9.4	-.7	[illegible]	[illegible]
850	31	1,527	8.3	-4.0	[illegible]	[illegible]
800	31	2,026	[illegible]	-6.8	25	[illegible]
750	31	2,554	[illegible]	-10.1	[illegible]	[illegible]
700	31	[illegible]	1.9	-14.0	26	[illegible]
650	31	3,707	-.8	-17.2	27	[illegible]
600	[illegible]	[illegible]	-4.8	-20.5	26	[illegible]
550	31	5,020	-9.2	-24.4	[illegible]	[illegible]
500	31	5,750	-14.1	-27.8	[illegible]	[illegible]
450	31	6,541	-19.7	-33.1	26	[illegible]
400	31	7,405	-26.1	-38.7	26	[illegible]
350	[illegible]	[illegible]	-33.3	-45.7	[illegible]	[illegible]
300	30	9,422	-41.8	-50.8	26	[illegible]
250	30	10,633	-50.6		26	[illegible]
200	[illegible]	[illegible]	-58.1		26	[illegible]
175	30	12,898	-60.8		26	[illegible]
150	30	13,851	-63.4		26	[illegible]
125	30	14,967	-65.7		26	[illegible]
100	[illegible]	16,319	-67.7		26	[illegible]
80	[illegible]	17,653	-69.2		26	[illegible]
70	27	[illegible]	-68.6		26	[illegible]
60	27	19,381	-66.1		27	[illegible]
50	[illegible]	[illegible]	-62.5		26	[illegible]
40	26	21,884	[illegible]		29	[illegible]
30	20	23,703	-56.3		[illegible]	[illegible]
25	19	24,866	-54.3		30	[illegible]
20	18	26,298	-51.8		[illegible]	[illegible]
15	15	28,171	-49.0		[illegible]	[illegible]
10	8	30,876	-44.2			

BROWNSVILLE, TX
1019 MB

Pressure	N	Height	Temperature	Dew point	Resultant Wind Direction	Resultant Wind Speed
SFC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1000	30	168	15.1	11.3	[illegible]	.7
950	30	602	13.4	7.5	[illegible]	[illegible]
900	[illegible]	1,057	12.0	4.4	19	[illegible]
850	30	1,535	10.1	3.1	20	5.0
800	[illegible]	[illegible]	8.9	[illegible]	21	4.7
750	30	2,571	7.2	-6.9	23	[illegible]
700	30	3,136	4.4	-11.4	25	5.3
650	[illegible]	3,736	1.0	-13.8	27	7.4
600	30	[illegible]	-3.2	-17.3	27	9.3
550	30	5,057	-7.7	[illegible]	[illegible]	10.2
500	30	5,792	-12.8	-27.5	26	11.5
450	30	6,587	-18.1	[illegible]	[illegible]	14.0
400	30	7,456	-24.8	[illegible]	[illegible]	16.6
350	30	8,416	-32.1	[illegible]	[illegible]	[illegible]
300	30	9,483	-40.5	[illegible]	[illegible]	22.1
250	30	10,699	-50.2		26	25.7
200	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
175	30	[illegible]	-63.1		[illegible]	27.0
150	30	[illegible]	-64.5		[illegible]	[illegible]
125	30	15,004	-67.6		[illegible]	[illegible]
100	28	16,340	-70.2		[illegible]	15.6
80	28	17,662	-71.2		[illegible]	9.8
70	28	18,454	-70.5		[illegible]	6.0
60	28	19,375	-67.9		[illegible]	3.0
50	28	20,483	-63.5		[illegible]	[illegible]
40	27	21,867	-59.2		[illegible]	.4
30	[illegible]	23,687	-55.1		[illegible]	2.2
25	[illegible]	24,858	-52.7		[illegible]	1.5
20	[illegible]	26,306	-50.1		[illegible]	1.6
15	19	[illegible]	-47.3		[illegible]	[illegible]
10	[illegible]	30,913	-42.8			

BUFFALO, NY
[illegible] MB

Pressure	N	Height	Temperature	Dew point	Resultant Wind Direction	Resultant Wind Speed
SFC	31	[illegible]	-2.7	-4.4	[illegible]	1.2
1000	[illegible]	241	-6.0	-9.4		
950	31	569	-3.9	-6.5	[illegible]	3.9
900	31	995	-5.3	-8.7	26	6.0
850	31	1,443	-7.0	-12.3	[illegible]	8.0
800	31	1,915	[illegible]	-13.3	[illegible]	10.6
750	31	2,415	-9.4	-17.0	[illegible]	12.8
700	31	2,946	-11.4	-20.4	[illegible]	14.6
650	31	3,512	-14.0	-22.4	[illegible]	16.7
600	31	4,116	-17.1	-25.9	[illegible]	19.4
550	31	4,765	-20.6	-28.9	[illegible]	22.4
500	31	5,465	[illegible]	[illegible]	[illegible]	24.9
450	31	6,224	-29.8	-38.8	[illegible]	27.2
400	31	7,054	-35.4	-44.0	[illegible]	[illegible]
350	31	7,974	-41.9	-46.9	[illegible]	29.2
300	31	9,000	-48.5		[illegible]	[illegible]
250	[illegible]	10,186	[illegible]		[illegible]	31.1
200	[illegible]	11,616	-54.6		[illegible]	27.8
175	[illegible]	12,472	-54.5		[illegible]	[illegible]
150	[illegible]	13,458	-55.2		[illegible]	25.9
125	[illegible]	14,618	-56.8		[illegible]	22.4
100	[illegible]	16,028	[illegible]		[illegible]	18.8
80	[illegible]	17,436	-58.4		[illegible]	15.8
70	[illegible]	18,276	-58.8		[illegible]	14.5
60	[illegible]	19,245	-59.2		[illegible]	[illegible]
50	[illegible]	20,384	-58.8		[illegible]	11.2
40	[illegible]	21,789	-58.5		[illegible]	9.7
30	[illegible]	23,600	[illegible]		[illegible]	9.9
25	[illegible]	24,744	[illegible]		[illegible]	13.5
20	[illegible]	26,158	[illegible]		[illegible]	15.4
15	[illegible]	27,975	-57.4		[illegible]	17.2
10		30,591	-53.4			

CAPE HATTERAS, NC
[illegible] MB

Pressure	N	Height	Temperature	Dew point	Resultant Wind Direction	Resultant Wind Speed
SFC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.5
1000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.9
950	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
900	31	1,044	[illegible]	-4.2	26	6.2
850	[illegible]	[illegible]	4.7	[illegible]	[illegible]	8.5
800	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10.2
750	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.6
700	[illegible]	[illegible]	-2.4	-16.0	26	[illegible]
650	[illegible]	[illegible]	-5.3	-18.5	26	[illegible]
600	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17.4
550	[illegible]	4,954	-12.8	-25.3	26	[illegible]
500	31	5,674	-17.8	-31.0	26	21.2
450	31	6,454	[illegible]	[illegible]	[illegible]	23.0
400	31	[illegible]	-29.0	-42.0	[illegible]	26.1
350	[illegible]	[illegible]	-36.0	-46.4	[illegible]	[illegible]
300	[illegible]	[illegible]	-44.2		[illegible]	31.4
250	30	10,499	-52.1		[illegible]	34.0
200	29	11,927	-57.6		[illegible]	36.3
175	[illegible]	[illegible]	-59.0		[illegible]	36.3
150	26	13,710	-59.7		[illegible]	32.2
125	[illegible]	[illegible]	-61.3		[illegible]	27.3
100	21	16,223	-63.3		[illegible]	22.3
80	20	17,591	-63.7		[illegible]	16.9
70	[illegible]	[illegible]	[illegible]		[illegible]	13.9
60	[illegible]	[illegible]	-60.8		[illegible]	10.0
50	[illegible]	[illegible]	-59.2		[illegible]	6.8
40	[illegible]	[illegible]	-57.7		[illegible]	4.1
30	[illegible]	[illegible]	-55.0		[illegible]	4.2
25	12	24,894	-54.3		[illegible]	7.5
20	[illegible]	[illegible]	-52.2			
15	6	28,229	-49.0			

RAWINSONDE DATA

Average monthly values

DECEMBER 1975

* CARIBOU, ME
996 MB

Standard pressure surface (mb)	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s.
SFC	31	191	-12.9	-16.4	29	2.1
1000	14	239	-17.7	-20.6	31	2.2
950	31	550	-11.0	-14.5	28	3.9
900	31	966	-10.8	-15.2	29	5.5
850	31	[illegible]	-10.2	-17.6	28	6.9
800	31	1,8[illegible]3	-11.0	-18.9	28	8.7
750	31	2,368	-12.3	-19.9	27	10.8
700	31	[illegible]	-14.2	-22.1	27	13.0
650	31	[illegible]	-16.8	-25.6	27	15.0
600	31	4,051	-19.8	-29.4	26	16.9
550	31	4,692	-23.6	-33.5	26	18.7
500	31	[illegible]	-27.9	-38.0	26	21.0
450	31	6,133	-32.4	-39.7	26	24.4
400	31	6,954	-37.7	-42.4	26	26.3
350	31	7,866	-43.5	-47.0	26	28.6
300	31	[illegible]	-49.2		26	30.3
250	31	10,072	-52.8		26	32.0
200	31	11,509	-53.6		26	29.3
175	31	12,367	-54.0		26	26.2
150	31	13,357	-54.7		26	24.6
125	30	14,518	-55.2		26	23.0
100	29	15,935	-56.2		26	20.3
80	29	17,349	-57.7		26	17.0
70	29	18,191	-58.1		26	17.1
60	29	19,162	-58.1		26	16.6
50	29	20,312	-59.7		26	15.2
40	29	21,707	-59.4		27	15.8
30	28	23,512	-59.7		27	17.0
25	24	[illegible]	-60.5		27	19.1
20	24	[illegible]	-60.8		27	21.4
15	17	27,842	-61.1		28	25.5
10	10	30,398	-59.1			

CENTREVILLE, AL
1006 MB

Standard pressure surface (mb)	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s.
SFC	31	140	4.2	-.5	36	1.1
1000	26	203	4.8	-1.3	36	.5
950	31	607	5.2	-2.0	23	2.2
900	31	1,048	5.1	-5.1	24	3.9
850	31	1,515	4.9	-7.6	25	5.8
800	31	2,009	3.6	-8.3	26	7.8
750	31	2,531	1.3	-10.9	27	10.0
700	31	3,084	-1.2	-15.2	27	11.1
650	31	3,671	-4.2	-17.9	27	12.4
600	31	4,299	-7.5	-22.4	27	14.3
550	31	4,971	-11.7	-24.8	27	16.2
500	31	5,694	-16.7	-29.7	[illegible]	17.5
450	31	6,477	-22.4	-34.6	[illegible]	20.1
400	31	7,332	-28.7	[illegible]	27	22.9
350	31	8,276	-35.7	-44.7	26	27.1
300	31	9,329	-43.6	-46.8	26	32.4
250	31	10,532	-51.7		[illegible]	36.0
200	31	11,958	-57.7		[illegible]	38.1
175	31	12,797	-59.3		27	32.4
150	31	13,757	-61.6		27	29.5
125	31	14,683	-63.2		27	27.2
100	31	16,247	-65.9		27	21.8
80	29	17,597	-67.2		27	16.0
70	28	18,404	-67.0		27	12.3
60	28	19,339	-65.0		27	8.9
50	28	20,460	-62.0		28	6.0
40	28	21,848	-59.9		28	4.8
30	28	23,659	-56.8		29	3.8
25	26	24,816	-55.6		29	4.4
20	24	26,249	-53.0		28	6.9
15	22	28,114	-50.7		28	10.9
10	12	30,826	-45.1		27	20.1
7	8	33,198	-42.4			

CHARLESTON, SC
1020 MB

Standard pressure surface (mb)	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s.
SFC	31	13	6.1	3.2	[illegible]	1.0
1000	31	18[illegible]	9.7	3.[illegible]	28	.9
950	31	606	9.1	1.1	24	3.1
900	31	1,053	7.4	-1.3	24	5.3
850	31	1,523	6.2	-5.2	25	7.0
800	31	2,018	4.1	-7.2	26	8.6
750	31	2,541	1.8	-10.6	26	9.7
700	31	3,095	-1.0	-14.5	26	11.1
650	31	3,683	-4.0	-18.4	26	12.3
600	31	4,310	-7.1	-22.4	26	14.5
550	31	4,984	-11.3	-25.8	26	17.1
500	31	5,708	-16.3	-31.1	26	18.6
450	31	6,492	-21.9	-35.2	26	20.9
400	31	7,348	-28.3	-40.9	26	23.6
350	31	8,295	-35.3	-45.2	26	25.1
300	31	9,348	-43.3	-48.9	27	29.2
250	31	10,553	-51.6		26	31.3
200	31	11,980	-57.5		27	35.4
175	31	12,818	-59.8		27	32.9
150	31	13,778	-61.4		27	31.7
125	31	14,905	-63.3		26	28.[illegible]
100	31	16,267	-66.2		26	23.3
80	30	17,615	-66.5		27	17.3
70	28	18,424	-66.5		27	12.6
60	28	19,362	-64.1		27	8.6
50	28	20,486	-61.2		28	6.1
40	27	21,882	-58.4		28	3.8
30	27	23,702	-56.0		29	4.5
25	26	24,862	-54.7		29	5.0
20	23	26,296	-52.4		27	6.0
15	21	28,163	-50.3		27	11.4
10	8	30,768	-46.5			

CHATHAM, MA
1017 MB

Standard pressure surface (mb)	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s.
SFC	31	16	2.0	-1.2	34	2.2
1000	29	167	1.4	-2.6	30	2.2
950	31	567	-.5	-4.0	30	4.3
900	31	998	-2.1	-9.2	28	5.4
850	31	1,452	-3.0	-11.7	27	7.6
800	31	1,931	-4.5	-14.3	27	10.2
750	31	2,438	-5.8	-19.4	27	12.3
700	31	2,977	-7.8	-20.7	26	14.3
650	31	3,551	-10.1	-23.4	27	16.3
600	31	4,164	-13.7	-26.0	27	18.5
550	31	4,820	-18.0	-29.4	26	20.8
500	30	5,527	-22.8	-34.1	26	23.5
450	30	6,291	-28.1	-38.8	27	25.8
400	30	7,126	-34.2	-44.1	27	27.3
350	30	8,050	-40.9	-47.9	27	28.7
300	30	9,080	-48.0		27	31.4
250	30	10,265	-54.1		27	31.2
200	29	11,680	-55.5		26	31.5
175	29	12,532	-55.7		26	29.5
150	29	13,512	-56.6		26	26.2
125	29	14,665	-58.3		26	23.5
100	28	16,063	-59.8		26	21.3
80	26	17,455	-60.7		26	15.9
70	25	18,290	-60.4		26	14.6
60	25	19,252	-60.1		26	12.5
50	24	20,393	-59.7		26	11.4
40	23	21,790	-59.3		27	11.7
30	21	23,607	-58.3		27	11.4
25	20	24,752	-58.0		27	14.6
20	20	26,160	-57.4		27	15.7
15	14	27,999	-56.3		27	21.2
10	5	30,559	-55.6			

CHIHUAHUA, MEXICO
860 MB

Standard pressure surface (mb)	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg.	Resultant Wind Speed m.p.s.
SFC	30	1,428	3.1	-4.9	25	1.0
850	30	1,523	6.2	-4.5	24	1.4
800	30	2,023	7.4	-4.8	25	2.9
750	30	2,552	5.1	-7.1	25	5.1
700	30	3,113	2.7	-12.1	25	6.4
650	30	3,708	-1.1	-14.7	25	6.1
600	30	4,341	-5.6	-18.2	26	6.9
550	30	5,018	-9.8	-24.1	26	8.0
500	30	5,747	-14.8	-29.1	26	10.7
450	30	6,535	-20.5	-33.8	26	11.6
400	30	7,396	-27.1	-39.5	27	13.6
350	30	8,347	-34.1	-45.5	27	15.6
300	30	9,405	-42.2	-47.3	26	19.1
250	30	10,616	-50.6		26	23.8
200	30	12,045	-58.3		26	23.9
175	30	12,877	-62.1		27	22.3
150	30	13,827	-63.2		26	19.8
125	29	14,942	-65.3		26	17.2
100	29	16,294	-67.0		26	14.0
80	29	17,636	-68.3		26	9.6
70	29	18,438	-67.9		27	7.1
60	25	19,364	-66.1		28	5.5
50	25	20,477	-63.5		28	3.4
40	25	21,860	-59.7		27	2.4
30	24	23,677	-55.7		27	2.7
25	22	24,846	-53.9		26	3.7
20	20	26,290	-51.6		26	4.8
15	17	28,167	-49.6		26	7.3
10	8	30,839	-46.2			

* COLD BAY, AK
998 MB

Standard pressure surface (mb)	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s.
SFC	31	30	-2.2	-4.7	13	1.0
1000	14	[illegible]	-3.6	-8.0	02	2.5
950	31	[illegible]	-3.6	-6.7	13	.5
900	31	846	-6.5	-9.3	25	.9
850	31	1,291	-8.4	-14.4	27	1.3
800	31	1,760	-10.8	-17.7	29	2.0
750	31	2,254	-12.9	-20.6	28	3.2
700	31	2,777	-15.7	-23.9	26	3.6
650	31	3,[illegible]33	-18.7	-27.3	26	4.1
600	31	3,9[illegible]6	-22.2	-30.3	25	5.4
550	31	4,560	-26.3	-34.0	25	6.3
500	31	5,243	-31.1	-38.6	25	6.9
450	31	5,982	-36.4	-41.1	25	7.3
400	31	6,789	-41.8	-44.4	25	9.0
350	31	7,686	-47.4		25	8.5
300	30	8,697	-52.0		25	11.[illegible]
250	30	9,872	-53.6		25	13.5
200	30	11,315	-51.5		25	14.1
175	30	12,184	-50.5		25	14.1
150	29	13,191	-50.0		25	14.2
125	29	14,377	-50.1		25	14.3
100	28	15,836	-50.1		24	14.4
80	24	17,292	-50.7		25	14.7
70	24	18,163	-50.5		25	15.5
60	25	19,165	-50.5		25	15.0
50	[illegible]	20,354	-50.5		25	15.4
40	23	21,8[illegible]6	-50.1		26	14.1
30	22	23,638	-50.1		26	16.1
25	20	24,892	-50.8		27	17.0
20	19	26,337	-50.9		27	18.3
15	13	28,244	-50.8		28	18.7
10	[illegible]	30,914	-49.4			

DAYTON, OH
985 MB

Standard pressure surface (mb)	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s.
SFC	31	299	-.1	-3.1	23	1.4
950	31	582	-.5	-3.5	24	5.8
900	31	1,013	-1.1	-6.1	26	7.6
850	31	1,468	-2.1	-7.8	26	9.0
800	30	1,951	-2.9	-11.8	26	10.9
750	30	2,460	-4.7	-13.8	27	12.9
700	30	3,000	-7.5	-16.7	27	13.9
650	30	3,575	-10.3	-21.0	27	15.8
600	30	4,187	-13.5	-25.6	27	17.2
550	30	4,844	-17.7	-28.7	27	19.6
500	30	5,551	-22.3	-33.1	27	22.0
450	30	6,317	-27.6	-38.0	27	23.3
400	30	7,154	-33.7	-43.5	27	24.6
350	30	8,080	-40.5	-48.0	27	27.5
300	30	9,11[illegible]	-47.4		27	30.4
250	30	10,299	-53.5		27	33.9
200	30	11,723	-56.5		27	30.8
175	29	12,574	-56.3		27	28.8
150	29	13,550	-57.5		27	26.5
125	29	14,697	-59.5		27	23.4
100	27	16,087	-60.9		27	18.7
80	26	17,468	-61.3		27	14.2
70	25	18,297	-61.2		27	12.3
60	24	19,254	-61.1		28	9.5
50	23	20,392	-60.1		28	7.8
40	23	21,787	-59.6		29	7.1
30	20	23,590	-58.9		29	6.7
25	16	24,738	-58.1		29	8.3
20	15	26,143	-57.5		28	10.1
15	11	27,983	-55.8		29	14.2
10	7	30,593	-53.4			

DEL RIO, TX
983 MB

Standard pressure surface (mb)	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s.
SFC	31	314	7.7	2.9	08	1.1
950	31	595	10.0	1.6	15	2.0
900	31	1,044	9.7	-.5	20	2.5
850	31	1,519	8.9	-2.7	25	3.3
800	31	2,020	7.5	-6.4	27	4.8
750	31	2,549	5.2	-9.7	27	6.2
700	31	3,110	2.1	-12.6	27	7.3
650	31	3,704	-1.5	-15.6	27	8.8
600	31	4,336	-5.7	-19.7	26	9.9
550	31	5,013	-10.0	-23.3	26	11.0
500	31	5,741	-14.9	-28.9	26	13.1
450	31	6,530	-20.5	-33.8	26	15.3
400	30	7,394	-27.0	-39.0	26	17.8
350	30	8,346	-33.9	-45.5	26	20.3
300	30	9,405	-42.2	-49.6	27	23.4
250	30	10,615	-51.2		27	26.3
200	30	12,038	-59.2		26	27.5
175	30	12,869	-62.0		26	26.4
150	30	13,819	-63.2		26	23.0
125	29	14,934	-64.9		26	18.3
100	29	16,287	-67.4		26	15.6
80	29	17,627	-68.6		26	10.9
70	29	18,427	-68.3		26	7.6
60	29	19,356	-66.5		27	5.3
50	28	20,468	-63.0		27	2.7
40	26	21,854	-59.5		27	2.2
30	24	23,670	-55.6		28	1.4
25	23	24,836	-53.4		30	2.1
20	23	26,278	-52.0		29	3.1
15	20	28,159	-49.4		29	6.4
10	7	30,822	-46.0			

DENVER, CO
837 MB

Standard pressure surface (mb)	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s.
SFC	31	1,611	-.1	-7.3	22	1.4
800	31	1,980	3.0	-10.6	29	3.7
750	31	2,501	.6	-13.6	31	5.4
700	31	3,051	-3.1	-15.9	32	7.6
650	31	3,634	-6.5	-18.0	32	9.4
600	31	4,255	-10.7	-22.3	32	10.9
550	31	4,918	-15.1	-28.0	31	11.9
500	31	5,632	-19.8	-32.4	31	13.3
450	31	6,406	-25.4	-36.8	31	14.5
400	29	7,248	-31.9	-42.0	30	14.0
350	29	8,181	-38.9	-46.4	30	15.1
300	29	9,219	-46.5		29	16.4
250	29	10,407	-54.4		29	18.9
200	28	11,824	-58.2		29	19.3
175	28	12,663	-59.1		28	16.5
150	28	13,629	-59.6		29	16.7
125	27	14,763	-61.7		29	14.2
100	27	16,141	-62.6		29	10.5
80	26	17,516	-62.7		28	7.7
70	26	18,341	-62.1		29	6.3
60	26	19,297	-60.9		30	4.8
50	24	20,435	-59.5		32	3.0
40	24	21,835	-58.2		33	3.1
30	23	23,650	-56.3		35	3.9
25	22	24,[illegible]13	-55.6		34	4.3
20	21	26,239	-54.7		33	5.9
15	14	28,093	-53.8		31	7.3

DODGE CITY, KS
926 MB

Standard pressure surface (mb)	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s.
SFC	31	791	-.9	-4.3	27	1.8
900	31	1,018	2.3	-5.3	29	3.7
850	31	1,482	4.3	-10.3	30	5.3
800	31	1,974	2.7	-11.7	30	5.6
750	31	2,494	.1	-14.5	30	6.5
700	31	3,044	-2.7	-17.4	30	8.0
650	31	3,627	-6.3	-19.7	29	9.3
600	31	4,249	-10.0	-24.7	29	10.1
550	30	4,915	-14.0	-28.2	29	12.0
500	30	5,632	-18.8	-34.0	29	13.2
450	30	6,408	-24.5	-38.4	29	14.3
400	30	7,255	-31.0	-43.9	29	15.5
350	30	8,191	-38.3	-48.6	29	17.3
300	30	9,230	-46.2		29	18.8
250	30	10,423	-53.5		29	22.8
200	30	11,840	-58.4		28	23.4
175	30	12,680	-58.8		28	20.7
150	30	13,645	-59.7		28	18.6
125	30	14,779	-61.9		28	18.1
100	30	16,154	-63.9		28	14.3
80	27	17,522	-63.4		28	9.9
70	27	18,345	-62.7		28	7.5
60	26	19,295	-62.9		28	6.5
50	25	20,426	-60.9		29	3.8
40	23	21,823	-59.3		33	3.2
30	2[illegible]	23,633	-57.3		34	3.8
25	21	24,785	-56.5		34	4.3
20	20	26,200	-54.9		32	5.5
15	18	28,040	-54.3		30	8.1
10	11	30,637	-53.0		28	17.7

EL PASO, TX
885 MB

Standard pressure surface (mb)	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s.
SFC	31	1,193	.5	-8.6	02	.6
850	31	1,520	6.6	-9.8	30	.4
800	31	2,016	4.9	-10.2	26	2.7
750	31	2,541	3.2	-12.2	25	3.6
700	31	3,[illegible]7	.1	-14.3	27	6.6
650	31	3,687	-3.0	-19.5	27	7.7
600	31	4,316	-6.9	-23.3	27	8.5
550	31	4,990	-11.3	-27.9	27	9.0
500	31	5,713	-16.6	-32.8	27	9.7
450	31	6,497	-22.3	-37.6	28	10.1
400	31	7,351	-28.8	-43.1	27	11.0
350	31	8,295	-36.0	-48.0	27	13.9
300	31	9,345	-43.7		28	16.3
250	31	[illegible],548	-52.1		28	19.3
200	31	11,907	-59.2		27	22.8
175	31	12,800	-61.5		27	22.4
150	31	13,754	-61.7		27	19.7
125	31	14,879	-63.8		27	15.3
100	30	16,236	-66.0		27	12.6
80	30	17,584	-67.3		27	10.4
70	29	18,389	-66.7		27	8.8
60	29	19,325	-65.3		27	6.8
50	28	20,440	-62.6		28	2.2
40	25	21,829	-59.4		30	1.4
30	24	23,644	-56.1		34	1.7
25	21	24,805	-54.9		30	2.5
20	21	26,239	-52.5		28	4.0
15	14	28,104	-51.4		27	9.2
10	[illegible]	30,764	-47.5			

ELY, NV
813 MB

Standard pressure surface (mb)	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s.
SFC	31	1,908	-6.2	-8.9	[illegible]	3.2
800	28	2,047	-1.3	-5.[illegible]	20	1.9
750	31	2,547	-.8	-7.8	[illegible]	1.2
700	31	3,096	-3.0	-10.9	31	3.9
650	31	3,680	-6.1	-15.2	32	6.3
600	31	4,303	-9.7	-19.6	31	8.7
550	31	4,969	-13.8	-24.[illegible]	31	9.3
500	31	5,686	-18.8	-29.5	31	10.9
450	31	6,463	-24.4	-34.3	31	12.3
400	31	7,310	-30.7	-40.1	30	13.0
350	31	8,248	-37.8	-44.1	31	13.6
300	31	9,290	-45.6		31	15.5
250	31	10,4[illegible]3	-53.6		31	17.2
200	31	11,900	-58.7		30	16.6
175	30	12,730	-60.0		30	16.6
150	30	13,692	-60.2		30	14.0
125	30	14,826	-62.0		29	12.5
100	30	16,201	-63.5		30	9.2
80	29	17,570	-63.7		30	6.4
70	29	18,392	-62.5		31	5.4
60	29	19,347	-60.6		33	3.5
50	28	20,485	-59.5		35	2.8
40	28	21,887	-57.8		[illegible]	3.1
30	27	23,716	-55.1		[illegible]	4.0
25	26	24,883	-54.3		01	5.0
20	26	26,316	-53.7		36	5.7
15	20	28,167	-53.1		36	7.6
10	5	30,859	-48.3			

EMPALME, MEXICO
1015 MB

Standard pressure surface (mb)	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s.
SFC	31	12	11.0	3.1	33	2.6
1000	31	139	15.3	3.8	33	3.6
950	31	576	16.9	-.[illegible]	35	3.3
900	31	1,035	15.2	-2.5	30	1.2
850	31	1,517	13.0	-4.8	24	2.2
800	31	2,025	10.6	-8.3	24	3.7
750	31	2,559	7.[illegible]	-10.7	25	4.7
700	31	3,122	3.7	-14.6	26	5.7
650	31	3,720	.6	-17.8	27	6.7
600	31	4,358	-3.4	-21.0	28	8.1
550	31	5,040	-8.2	-25.2	28	9.4
500	31	5,772	-13.7	-29.1	28	11.6
450	31	6,564	-19.3	-33.7	28	12.8
400	31	7,429	-26.1	-40.4	27	15.6
350	31	8,383	-33.5	-46.0	27	17.6
300	31	9,443	-41.9	-49.9	27	20.8
250	31	10,654	-51.1		26	24.9
200	31	12,076	-59.3		26	25.6
175	31	12,907	-62.1		26	23.5
150	30	13,855	-63.6		26	21.1
125	30	14,972	-64.7		26	17.1
100	30	16,327	-66.9		27	12.2
80	27	17,675	-67.6		26	8.9
70	25	18,477	-67.4		27	6.8
60	23	19,407	-66.7		27	5.3
50	23	20,517	-63.4		28	3.2
40	23	21,905	-58.9		26	2.1
30	21	23,728	-55.5		29	2.8
25	17	24,899	-53.3		25	3.1
20	15	26,344	-51.7		25	5.5
15	10	28,236	-49.1			

* FAIRBANKS, AK
994 MB

Standard pressure surface (mb)	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s.
SFC	31	135	-26.9	-21.8	04	.4
1000	13	188	-31.7	-29.3	07	.8
950	31	466	-17.5	-20.7	10	1.3
900	31	873	-14.8	-20.1	14	2.1
850	31	1,306	-15.1	-21.0	16	2.7
800	31	1,763	-16.2	-22.8	17	2.8
750	31	2,247	-18.6	-24.9	19	3.1
700	31	2,759	-21.6	-27.6	21	3.3
650	31	3,302	-24.4	-30.5	23	3.4
600	31	3,881	-27.8	-33.6	25	3.5
550	31	4,501	-31.4	-35.1	25	4.0
500	31	5,170	-35.9	-37.9	25	5.0
450	31	5,895	-40.7	-40.2	25	5.5
400	31	6,688	-46.0	-41.4	25	6.6
350	30	7,565	-51.0		24	8.2
300	30	8,557	-54.5		25	9.8
250	30	9,722	-54.7		26	11.6
200	30	11,155	-53.2		26	15.3
175	30	12,018	-52.5		26	15.8
150	29	13,016	-53.1		26	17.4
125	29	14,191	-53.3		26	19.8
100	29	15,626	-53.8		26	22.7
80	27	17,053	-54.3		27	24.0
70	26	17,915	-54.5		27	25.7
60	25	18,899	-55.6		27	28.3
50	22	20,063	-56.5		27	29.1
40	22	21,476	-57.4		27	31.7
30	16	23,317	-58.2		27	36.0
25	11	24,490	-58.3			
20	8	25,854	-59.4			

FLINT, MI
991 MB

Standard pressure surface (mb)	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed m.p.s.
SFC	30	236	-3.1	-6.0	25	.8
950	30	569	-4.4	-6.8	26	2.2
900	30	994	-6.2	-9.0	28	4.7
850	30	1,440	-7.0	-12.3	28	6.4
800	30	1,913	-8.0	-14.8	28	8.4
750	30	2,414	-8.6	-17.1	28	10.7
700	30	2,948	-10.4	-19.7	28	13.1
650	30	3,516	-13.2	-21.8	28	14.8
600	30	4,121	-16.7	-26.3	28	16.8
550	30	4,770	-20.6	-30.1	28	18.2
500	30	5,468	-25.3	-34.6	28	20.4
450	30	6,226	-30.0	-39.0	27	23.1
400	29	7,047	-35.7	-43.7	28	25.5
350	28	7,955	-42.2	-46.2	28	27.0
300	28	8,980	-48.7		28	28.5
250	27	10,157	-53.0		27	30.5
200	27	11,595	-53.0		27	27.0
175	26	12,451	-53.3		28	25.3
150	25	13,438	-53.9		28	24.0
125	24	14,597	-55.8		28	20.6
100	24	16,011	-57.2		28	16.9
80	23	17,425	-58.2		28	14.1
70	23	18,266	-58.4		28	13.2
60	23	19,233	-59.2		28	12.0
50	23	20,377	-58.6		28	9.6
40	21	21,779	-58.4		29	10.2
30	17	23,586	-58.3		29	9.2
25	16	24,737	-58.0		29	9.2
20	12	26,154	-58.1		29	15.0
15	7	27,969	-55.9			

RAWINSONDE DATA

Average monthly values

Column headings for each station: Standard pressure (millibars) · No. of observations · Average height (meters) · Temperature (°C) · Dew Point (°C) · Resultant Wind: Direction (tens of deg.) · Speed (mps)

GLASGOW, MT
934 MB

Standard pressure (millibars)	No. of observations	Average height (meters)	Temperature (°C)	Dew Point (°C)	Resultant Wind Direction (tens of deg.)	Resultant Wind Speed (mps)
SFC	31	596	-9.1	-11.5	08	[illegible]
1000						
950						
900	31	985	-3.2	-9.0	30	4.5
850	31	1,419	-3.6	[illegible]	30	9.1
800	31	1,918	-4.0	-13.2	30	10.5
750	31	2,434	-7.0	-15.1	30	12.4
700	31	2,959	-10.0	-18.0	30	14.3
650	31	3,508	-13.3	-21.3	30	15.2
600	31	[illegible]	-15.6	-24.1	30	17.2
550	31	4,682	-20.6	[illegible]	29	18.5
500	31	[illegible]	-25.1	-31.4	30	[illegible]
450	31	[illegible]	[illegible]	-36.2	30	[illegible]
400	31	[illegible]	-36.2	-41.4	30	23.1
350	31	7,984	-42.7	-43.3	29	24.7
300	31	[illegible]	-49.8		30	26.8
250	30	[illegible]	-55.0		30	27.9
200	30	[illegible]	-55.5		30	26.4
175	30	[illegible]	-55.1		30	25.4
150	30	[illegible]	-55.5		30	23.4
125	29	14,575	-56.6		29	[illegible]
100	29	[illegible]	-57.8		30	17.7
80	[illegible]	17,419	-58.0		30	15.1
70	[illegible]	[illegible]	-58.2		30	12.4
60	[illegible]	[illegible]	-57.5		30	11.5
50	15	[illegible]	-57.5		31	11.4
40	14	[illegible]	-57.7		31	10.8
30	[illegible]	[illegible]	-57.3		31	12.3
25	[illegible]	[illegible]	-57.8		31	13.3
20	[illegible]	[illegible]	-57.8		31	[illegible]
15	10	[illegible]	-58.7			
10						

GRAND JUNCTION, CO
[illegible] MB

Standard pressure (millibars)	No. of observations	Average height (meters)	Temperature (°C)	Dew Point (°C)	Resultant Wind Direction (tens of deg.)	Resultant Wind Speed (mps)
SFC	31	1,4[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
850	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
800	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
750	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
700	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
650	31	3,658	[illegible]	[illegible]	[illegible]	[illegible]
600	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
550	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
500	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
450	31	[illegible]	-24.5	[illegible]	[illegible]	[illegible]
400	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
350	31	[illegible]	[illegible]	-45.8	[illegible]	[illegible]
300	31	[illegible]	[illegible]		[illegible]	[illegible]
250	31	[illegible]	[illegible]		[illegible]	[illegible]
200	31	[illegible]	[illegible]		[illegible]	[illegible]
175	31	[illegible]	-58.[illegible]		[illegible]	[illegible]
150	31	[illegible]	[illegible]		[illegible]	[illegible]
125	31	[illegible]	[illegible]		[illegible]	[illegible]
100	31	[illegible]	-63.5		[illegible]	[illegible]
80	31	[illegible]	-63.4		[illegible]	[illegible]
70	31	[illegible]	-62.5		[illegible]	[illegible]
60	31	[illegible]	[illegible]		[illegible]	[illegible]
50	28	[illegible]	-59.[illegible]		[illegible]	[illegible]
40	28	[illegible]	-58.[illegible]		[illegible]	[illegible]
30	28	[illegible]	-56.[illegible]		[illegible]	[illegible]
25	23	[illegible]	-55.3		[illegible]	[illegible]
20	[illegible]	[illegible]	-54.[illegible]		[illegible]	[illegible]
15	24	28,1[illegible]	-54.[illegible]		[illegible]	[illegible]
10	6	3[illegible],489	-53.4			

GREAT FALLS, MT
[illegible] MB

[illegible]

[illegible]

[illegible]

GUADALUPE IS., MEXICO
1017 MB

Standard pressure (millibars)	No. of observations	Average height (meters)	Temperature (°C)	Dew Point (°C)	Resultant Wind Direction (tens of deg.)	Resultant Wind Speed (mps)
SFC	30	3	14.2	11.5	32	4.6
1000	30	153	13.3	3.7	33	5.3
950	30	594	12.8	.9	33	3.1
900	30	1,047	[illegible]	-5.1	34	2.6
850	30	1,525	10.6	-7.7	34	3.3
800	30	2,019	[illegible]	-11.2	33	4.3
750	30	2,553	7.5	-13.9	33	4.8
700	30	[illegible]	4.2	-16.0	31	5.2
650	30	[illegible]	.7	-19.7	31	5.0
600	30	4,304	-3.3	-22.9	30	4.6
550	29	[illegible]	-8.2	-26.9	29	4.6
500	27	5,779	-13.5	[illegible]	28	4.5
450	29	[illegible]	-19.4	-35.8	28	5.5
400	29	7,434	-26.5	-41.1	27	6.5
350	28	8,385	-34.0	-45.9	27	8.1
300	28	9,443	-42.5	[illegible]	26	10.5
250	28	[illegible]	-51.4		26	14.0
200	28	[illegible]	-59.4		26	14.7
175	28	[illegible]	-62.5		26	15.7
150	27	13,854	-63.6		26	15.5
125	27	[illegible]	-64.8		26	[illegible]
100	27	[illegible]	-66.8		26	[illegible]
80	25	17,656	-67.2		26	9.6
70	24	18,466	-66.6		26	9.3
60	24	[illegible]	-65.2		27	5.7
50	24	[illegible]	-62.7		28	2.2
40	22	21,984	-59.2		03	1.4
30	19	[illegible]	-55.2		07	2.2
25	15	24,887	-54.0		[illegible]	.6
20	11	26,343	-51.6		32	1.4
15	[illegible]	28,218	-49.6			
10						
7						

* **GUAM, MARIANA IS.**
998 MB

Standard pressure (millibars)	No. of observations	Average height (meters)	Temperature (°C)	Dew Point (°C)	Resultant Wind Direction (tens of deg.)	Resultant Wind Speed (mps)
SFC	31	111	24.7	[illegible]	09	[illegible]
1000	[illegible]	114	25.4	[illegible]		
950	31	548	[illegible]	[illegible]	[illegible]	8.6
900	31	[illegible]	[illegible]	16.7	09	8.7
850	31	[illegible]	[illegible]	[illegible]	09	7.4
800	31	2,037	14.8	[illegible]	09	[illegible]
750	31	[illegible]	12.6	[illegible]	09	6.4
700	31	3,147	9.8	-3.8	09	[illegible]
650	31	[illegible]	6.4	-6.6	09	[illegible]
600	31	[illegible]	2.8	[illegible]	09	[illegible]
550	31	5,112	-.7	[illegible]	09	6.4
500	31	5,866	-5.4	[illegible]	[illegible]	[illegible]
450	31	6,685	[illegible]	[illegible]	09	6.8
400	31	7,582	-16.4	[illegible]	08	5.5
350	31	8,576	-23.4	[illegible]	09	[illegible]
300	31	9,682	-31.9	-46.9	[illegible]	3.6
250	31	10,943	[illegible]		5	[illegible]
200	31	12,414	[illegible]		3	[illegible]
175	31	13,257	-60.9		3	[illegible]
150	29	14,197	-68.4		03	[illegible]
125	29	[illegible]	[illegible]		[illegible]	3.3
100	29	16,534	-83.3		[illegible]	9.2
80	28	17,772	-82.3			8.2
70	28	18,528	-77.7		[illegible]	[illegible]
60	28	19,426	[illegible]		[illegible]	.8
50	28	20,524	-64.6		[illegible]	4.3
40	28	[illegible]	-60.4		[illegible]	5.3
30	28	23,716	-55.9		[illegible]	[illegible]
25	28	24,885	-52.9		[illegible]	[illegible]
20	25	26,337	-49.7		[illegible]	.5
15	24	28,238	[illegible]		05	[illegible]
10	15	[illegible]	-43.6		[illegible]	[illegible]
7	5	33,38[illegible]	[illegible]			

[illegible], HI
[illegible] MB

[illegible]

HUNTINGTON, WV
[illegible] MB

Standard pressure (millibars)	No. of observations	Average height (meters)	Temperature (°C)	Dew Point (°C)	Resultant Wind Direction (tens of deg.)	Resultant Wind Speed (mps)
SFC	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
950	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
900	31	[illegible]	.3	-4.5	[illegible]	[illegible]
850	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
800	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
750	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
700	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
650	31	[illegible]	-6.2	[illegible]	27	[illegible]
600	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
550	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
500	31	[illegible]	-21.3	[illegible]	[illegible]	[illegible]
450	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
400	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
350	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
300	31	[illegible]	[illegible]		26	[illegible]
250	31	[illegible]	[illegible]		27	[illegible]
200	30	[illegible]	[illegible]		27	34.5
175	[illegible]	[illegible]	[illegible]		27	[illegible]
150	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
125	[illegible]	[illegible]	-59.3		[illegible]	[illegible]
100	28	[illegible]	[illegible]		[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]		27	[illegible]
70	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]		28	[illegible]
30	[illegible]	[illegible]	[illegible]		28	.5
25	[illegible]	[illegible]	[illegible]		28	[illegible]
20	14	[illegible]	[illegible]		27	11.5
15	[illegible]	28,151	[illegible]		27	[illegible]

* **INTERNATIONAL FALLS, MN**
[illegible] MB

[illegible]

* **ISLE DEL CISNE**
1014 MB

Standard pressure (millibars)	No. of observations	Average height (meters)	Temperature (°C)	Dew Point (°C)	Resultant Wind Direction (tens of deg.)	Resultant Wind Speed (mps)
SFC	31	[illegible]	24.6	19.6	06	3.3
1000	31	131	24.5	[illegible]	06	4.9
950	31	578	[illegible]	[illegible]	06	[illegible]
900	31	1,044	[illegible]	12.1	06	4.3
850	31	1,529	13.6	8.4	05	4.3
800	31	2,038	11.0	3.4	05	4.1
750	31	2,575	8.9	-4.7	06	3.3
700	31	3,145	7.7	-11.6	04	2.6
650	31	3,752	4.8	[illegible]	04	2.6
600	31	[illegible]	.4	-18.7	06	2.2
550	31	[illegible]	-2.6	[illegible]	[illegible]	1.8
500	31	5,845	-7.6	[illegible]	35	1.4
450	31	6,657	-12.7	[illegible]	32	2.4
400	31	7,545	[illegible]	-36.3	24	4.9
350	31	[illegible]	-26.7	-42.6	27	7.3
300	31	[illegible]	-35.4	[illegible]	25	[illegible]
250	31	[illegible]	-45.4		24	18.1
200	31	[illegible]	-56.2		24	[illegible]
175	31	[illegible]	[illegible]		24	[illegible]
150	31	[illegible]	-66.2		25	21.3
125	29	[illegible]	-69.9		25	16.3
100	28	[illegible]	-75.5		25	8.1
80	28	[illegible]	-76.9		22	[illegible]
70	28	18,552	[illegible]		[illegible]	.4
60	[illegible]	[illegible]	-68.9		33	.4
50	[illegible]	[illegible]	[illegible]		28	1.4
40	[illegible]	[illegible]	-58.2		33	2.1
30	[illegible]	[illegible]	[illegible]		33	[illegible]
25	[illegible]	[illegible]	[illegible]		33	1.7
20	[illegible]	[illegible]	-46.9		[illegible]	2.4
15	[illegible]	28,363	-43.7		[illegible]	3.2
10	5	[illegible]	[illegible]			

JACKSON, MS
[illegible] MB

Standard pressure (millibars)	No. of observations	Average height (meters)	Temperature (°C)	Dew Point (°C)	Resultant Wind Direction (tens of deg.)	Resultant Wind Speed (mps)
SFC	31	[illegible]	[illegible]	3.7	[illegible]	.4
1000	[illegible]	169	[illegible]	[illegible]	[illegible]	[illegible]
950	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
900	31	[illegible]	5.5	[illegible]	[illegible]	[illegible]
850	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
800	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
750	31	2,531	2.5	[illegible]	[illegible]	[illegible]
700	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
650	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
600	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
550	31	[illegible]	[illegible]	[illegible]	[illegible]	4.3
500	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
450	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
400	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
350	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
300	31	9,344	[illegible]	[illegible]	[illegible]	[illegible]
250	31	[illegible]	[illegible]		[illegible]	[illegible]
200	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
175	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
150	[illegible]	13,767	[illegible]		[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
10	8	[illegible]	[illegible]			

JOHN F. KENNEDY INT. AP, NY
[illegible] MB

[illegible]

JOHNSTON IS., PACIFIC AREA
1014 MB

[illegible]

KEY WEST, FL
[illegible] MB

[illegible]

RAWINSONDE DATA

Average monthly values

DECEMBER 1975

KING SALMON, AK
[illegible] MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	15	-12.6	-16.0	07	1.7
1000	31	[illegible]	-15.6	-14.6	36	2.4
950	31	418	-7.8	-14.5	04	3.4
900	31	838	-8.3	-15.7	03	3.0
850	31	[illegible]	-10.1	-17.7	01	1.8
800	31	1,746	-12.0	-14.3	34	1.1
750	31	2,238	-14.4	-22.7	30	1.6
700	31	2,758	-17.7	-25.3	28	2.5
650	31	3,309	-21.1	-30.2	28	3.1
600	31	3,895	-24.9	-33.3	30	4.6
550	31	4,523	-28.9	-36.9	29	6.2
500	31	5,148	-33.3	-40.7	29	7.9
450	31	5,932	-37.6	-41.2	29	8.9
400	31	[illegible]	-42.4	-43.9	29	10.4
350	31	7,633	-47.2		28	9.6
300	31	8,641	-51.5		28	10.1
250	31	9,817	-52.3		26	11.4
200	31	11,259	-50.5		25	12.0
175	31	12,141	-50.3		25	14.0
150	31	13,147	-50.3		25	14.6
125	31	14,337	-50.4		25	15.5
100	30	15,801	-50.3		25	16.7
80	30	17,254	-51.2		25	18.1
70	29	[illegible]	-51.6		25	18.9
60	29	19,124	-52.4		26	19.5
50	28	20,306	-51.3		26	22.3
40	27	21,756	-50.9		26	22.3
30	25	23,631	-52.4		27	24.8
25	25	24,819	-52.7		28	27.4
20	24	26,148	-52.7		28	29.6
15	16	28,123	-52.3		28	34.4
10	5	30,799	-54.5			

+ KOROR, CAROLINE IS.
1005 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	30	27.5	24.6	09	2.7
1000	31	78	26.4	23.6	09	3.2
950	31	531	23.1	21.2	09	5.3
900	31	1,001	20.2	17.6	10	6.0
850	31	1,494	17.5	14.4	11	6.3
800	31	2,012	15.3	11.9	10	6.1
750	31	2,558	12.7	6.8	10	6.2
700	31	3,135	9.7	2.1	10	6.5
650	31	3,747	6.2	-.7	10	6.5
600	31	4,400	2.6	-4.8	10	7.8
550	31	5,099	-1.2	-8.9	11	6.8
500	31	5,854	-5.3	-14.5	[illegible]	9.6
450	31	6,675	-10.0	-18.9	09	8.6
400	31	7,574	-15.3	-25.6	09	8.0
350	31	8,573	-22.1	-33.5	10	7.5
300	31	9,685	-30.4	[illegible]	10	6.8
250	31	10,954	-40.9	-51.7	11	6.3
200	31	12,432	-53.0		10	6.2
175	31	13,279	-60.3		11	6.0
150	31	14,221	-68.4		10	5.7
125	31	15,294	-76.5		09	8.1
100	31	16,551	-84.3		10	14.1
80	31	17,804	-77.4		09	7.0
70	31	18,581	-71.1		30	2.5
60	29	19,509	-66.4		28	7.7
50	29	20,625	-61.9		27	9.3
40	29	22,020	-58.1		27	9.5
30	26	23,849	-54.1		36	9.0
25	24	25,020	-51.8		27	8.2
20	22	26,468	-49.2		36	6.4
15	14	28,373	-45.4		25	5.0
10						

KOTZEBUE, AK
1010 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	5	-21.5	-26.7	07	2.8
1000	30	140	-21.4	-24.8	09	3.4
950	30	463	-16.7	-20.8	09	3.2
900	30	871	-15.9	-20.6	09	2.1
850	30	1,301	-16.4	-20.5	09	.9
800	30	1,757	-17.6	-22.3	14	.3
750	30	2,238	-19.6	-25.4	29	.2
700	30	2,748	-22.2	-28.9	28	.8
650	30	3,289	-25.4	-33.1	29	1.0
600	30	3,866	-29.1	-37.1	29	1.4
550	30	4,483	-32.9	-39.6	30	1.6
500	30	5,148	-37.2	-42.6	29	2.6
450	30	5,869	-41.8	-44.1	29	4.1
400	30	6,659	-46.6		28	5.8
350	30	7,537	-51.8		27	6.6
300	30	8,524	-55.9		26	7.6
250	29	9,682	-57.7		25	9.6
200	27	11,095	-55.0		25	11.0
175	27	11,944	-54.6		25	12.3
150	27	12,931	-54.5		26	14.3
125	27	14,098	-54.6		26	16.9
100	27	15,527	-54.7		26	19.5
80	26	16,951	-55.5		26	23.8
70	25	17,796	-56.1		26	25.6
60	25	18,774	-56.9		26	28.5
50	25	19,927	-57.7		26	30.9
40	22	21,326	-58.4		26	36.1
30	21	23,122	-60.0		26	40.7
25	15	24,247	-61.2		26	43.4
20	10	25,633	-61.8			
15						
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KWAJALEIN, MARSHALL IS.
1011 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC						
1000						
950						
900						
850						
800						
750						
700						
650						
600						
550						
500						
450						
400						
350						
300						
250						
200						
175						
150						
125						
100						
80						
70						
60						
50						
40						
30						
25						
20						
15						
10						

LAKE CHARLES, LA
1021 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	5	7.6	5.3	04	1.1
1000	31	174	9.8	4.6	09	1.4
950	31	600	9.2	.2	20	1.2
900	31	1,048	8.5	-1.8	26	3.0
850	31	1,520	7.6	-4.8	27	5.1
800	31	2,016	5.8	-7.8	27	6.7
750	31	2,545	3.6	-12.0	26	7.6
700	31	3,103	1.5	-16.5	27	8.5
650	31	3,696	-1.8	-18.2	27	9.9
600	31	4,329	-5.5	-21.4	27	11.8
550	31	5,006	-9.7	-25.4	27	14.1
500	31	5,735	-14.6	-29.1	27	15.3
450	31	6,524	-20.2	-33.3	26	17.0
400	31	7,385	-27.0	-39.4	26	19.7
350	31	8,337	-34.2	-44.7	26	22.4
300	31	9,394	-42.5	-51.5	26	25.4
250	31	10,602	-50.9		26	27.4
200	31	12,029	-58.3		26	30.0
175	31	12,863	-61.0		26	29.4
150	31	13,817	-63.0		26	27.4
125	31	14,936	-64.3		26	23.4
100	31	16,293	-67.1		26	19.7
80	30	17,632	-68.6		27	11.7
70	29	18,434	-68.1		27	7.8
60	28	19,363	-66.2		27	6.0
50	28	20,479	-62.1		26	3.1
40	25	21,862	-59.4		30	1.0
30	22	23,681	-56.0		36	1.5
25	21	24,844	-54.1		33	2.1
20	20	26,289	-50.9		31	3.0
15	16	28,181	-48.3		28	5.4
10	9	30,867	-44.3			

LANDER, WY
829 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	[illegible]	-6.9	-11.6	26	1.5
1000						
950						
900						
850						
800	31	1,978	-.9	-10.6	28	2.1
750	31	2,493	-1.8	-13.1	30	5.1
700	31	3,039	-5.1	-16.0	30	8.7
650	31	3,618	-8.5	-18.7	30	11.5
600	31	4,235	-11.9	-23.4	30	14.3
550	31	4,895	-16.1	-27.8	30	16.6
500	31	5,576	-20.8	-32.6	30	17.3
450	31	6,377	-26.5	-36.7	30	19.8
400	31	7,217	-32.9	-43.1	30	20.4
350	31	8,145	-40.2	-47.8	30	20.2
300	31	9,176	-48.1		30	21.3
250	31	10,359	-54.8		29	23.1
200	31	11,769	-59.0		29	21.9
175	31	12,608	-58.8		28	21.9
150	31	13,577	-58.5		29	20.5
125	31	14,720	-60.0		28	17.2
100	29	16,106	-61.9		29	12.2
80	28	17,478	-62.3		29	9.7
70	28	18,306	-60.6		29	7.3
60	28	19,269	-59.9		30	6.7
50	27	[illegible]	-59.6		31	5.1
40	25	21,812	-57.4		32	4.7
30	[illegible]	23,630	-56.5		34	4.6
25	19	24,785	-56.2		34	5.2
20	15	26,213	-56.2		33	8.9
15	[illegible]	[illegible]	-55.9		32	11.4
10						

* LIHUE KAUAI, HI
1013 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	36	20.5	17.9	02	.8
1000	31	148	21.2	17.0	06	1.5
950	31	591	18.0	14.9	08	2.8
900	31	1,053	14.6	11.3	09	2.5
850	31	1,535	12.0	5.6	10	2.8
800	31	2,042	10.9	-2.9	12	2.4
750	31	2,578	9.1	-8.7	14	1.9
700	31	3,146	5.6	-12.2	16	.8
650	31	3,748	2.2	-14.8	28	1.0
600	31	4,390	-1.8	-18.1	26	1.9
550	31	5,077	-6.2	-22.4	30	2.3
500	31	5,815	-11.2	-25.4	31	4.9
450	31	6,616	-16.3	-30.5	31	7.3
400	31	7,491	-22.9	-35.4	31	8.6
350	31	8,459	-30.1	-43.4	32	10.0
300	31	9,535	-38.1	-50.5	32	13.0
250	31	10,765	-47.5		32	15.7
200	31	12,207	-57.4		32	19.9
175	31	13,041	-62.2		32	19.3
150	31	13,985	-66.2		32	17.5
125	31	15,077	-70.9		31	15.7
100	31	16,390	-73.5		31	10.0
80	29	17,696	-73.4		32	4.2
70	28	18,481	-70.7		36	1.3
60	28	19,404	-67.1		15	1.3
50	28	20,515	-63.3		16	2.0
40	26	21,905	-59.1		24	2.7
30	24	23,725	-55.6		32	1.4
25	23	24,891	-53.5		35	2.7
20	21	26,337	-51.5		02	1.9
15	18	28,213	-48.7		11	2.3
10	9	30,922	-43.5			

LITTLE ROCK, AR
1012 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	16	79	5.8	3.9	20	.9
1000	16	176	8.2	3.4	22	2.5
950	16	600	8.5	1.9	23	7.2
900	16	1,048	8.2	-1.0	23	8.1
850	16	1,520	7.5	-5.2	25	7.9
800	16	2,017	5.5	-8.5	27	7.7
750	16	2,543	3.5	-14.0	27	8.7
700	16	3,100	.5	-18.3	28	10.2
650	16	3,691	-2.6	-21.0	28	11.9
600	16	4,321	-6.7	-23.4	28	13.3
550	16	4,995	-10.9	-27.4	28	14.3
500	16	5,721	-15.9	-32.2	28	15.1
450	16	6,507	-21.2	-36.5	28	18.1
400	16	7,364	-28.2	-41.1	28	19.4
350	16	8,311	-35.3	-46.9	28	21.8
300	16	9,363	-43.7		28	24.2
250	16	10,567	-51.7		28	26.3
200	16	11,988	-59.3		28	27.8
175	16	12,818	-61.7		28	27.0
150	16	13,768	-64.1		28	23.8
125	16	14,883	-64.2		28	21.7
100	16	16,244	-65.4		27	18.7
80	15	17,603	-65.8		28	13.0
70	15	18,414	-65.6		27	9.0
60	15	19,354	-64.0		27	8.2
50	15	20,481	-61.0		28	5.0
40	15	21,875	-58.9		27	3.7
30	13	23,699	-55.5		27	5.2
25	13	24,864	-54.3		28	6.9
20	12	26,297	-53.5			
15	8	28,159	-51.4			
10	5	30,849	-44.3			

LONGVIEW, TX
1007 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	124	5.7	3.4	18	.4
1000	29	190	7.2	1.9	18	.8
950	31	606	7.3	-.8	22	3.9
900	31	1,051	6.7	-4.8	24	5.0
850	31	1,520	6.0	-7.6	26	5.3
800	31	2,015	4.6	-11.5	27	6.8
750	31	2,539	2.3	-14.0	27	8.0
700	31	3,094	.2	-16.8	27	9.0
650	31	3,684	-3.0	-19.4	27	10.6
600	31	4,314	-6.6	-22.1	27	12.0
550	31	4,988	-10.9	-25.0	27	14.1
500	31	5,713	-16.4	-29.5	27	15.7
450	31	6,497	-21.8	-33.6	27	18.1
400	31	7,353	-28.3	-40.2	27	21.3
350	30	8,296	-35.7	-46.2	26	25.3
300	30	9,347	-43.8		27	28.5
250	30	10,551	-51.6		27	32.6
200	30	11,975	-58.3		27	32.4
175	30	12,812	-59.9		27	28.5
150	30	13,770	-62.1		26	24.9
125	30	14,895	-63.4		26	24.0
100	30	16,258	-65.8		27	18.4
80	29	17,608	-66.9		27	12.5
70	29	18,415	-66.7		26	10.2
60	29	19,350	-65.2		27	6.5
50	28	20,473	-61.5		27	3.5
40	25	21,867	-59.1		30	2.1
30	25	23,682	-56.4		28	2.9
25	21	24,845	-54.4		28	3.5
20	20	26,282	-52.5		29	5.7
15	18	28,145	-50.6		29	10.9
10	11	30,831	-45.5			

MCGRATH, AK
995 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	103	-26.8	-23.1	02	.3
1000	15	161	-30.0	-31.9	04	.5
950	30	445	-17.7	-19.6	08	2.4
900	30	854	-12.6	-17.0	11	3.6
850	30	1,291	-12.5	-18.6	13	2.4
800	30	1,752	-14.4	-20.4	15	1.8
750	30	2,239	-16.9	-23.1	18	1.3
700	30	2,755	-19.7	-28.3	21	1.7
650	30	3,301	-23.0	-30.0	24	2.2
600	30	3,883	-26.7	-34.0	24	2.9
550	30	4,507	-30.7	-36.3	24	3.8
500	30	5,178	-34.9	-40.5	27	4.1
450	30	5,905	-39.7	-42.4	27	4.8
400	30	6,702	-44.9		27	5.3
350	30	7,588	-49.6		28	6.2
300	30	8,586	-53.2		27	7.7
250	30	9,757	-53.9		26	10.1
200	30	11,196	-52.6		25	13.7
175	30	12,061	-51.5		25	14.1
150	30	13,061	-51.8		26	16.0
125	30	14,244	-52.0		25	17.9
100	30	15,689	-52.3		26	19.9
80	30	17,131	-52.8		26	21.7
70	29	17,993	-53.3		26	23.7
60	29	18,986	-53.6		26	25.3
50	29	20,156	-53.9		26	27.2
40	27	21,599	-54.5		26	30.4
30	26	23,432	-55.3		27	34.5
25	25	24,591	-56.1		27	37.4
20	18	25,999	-57.1		27	41.5
15	9	27,842	-56.4			
10						

MAJURO, MARSHALL IS.
+ 1010 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	3	27.7	23.7	08	5.4
1000	31	86	26.4	22.5	08	7.1
950	31	538	22.8	20.8	08	10.1
900	31	1,009	20.0	17.8	09	11.1
850	31	1,501	17.2	14.4	09	11.0
800	31	2,019	15.2	10.3	09	10.1
750	31	2,564	12.9	5.6	09	9.0
700	31	3,142	10.2	2.1	09	7.4
650	31	3,756	7.1	-2.6	09	7.2
600	31	4,410	3.4	-7.0	09	7.8
550	31	5,112	-.3	-11.4	09	8.1
500	31	5,869	-4.3	-18.0	08	8.5
450	31	6,692	-9.1	-23.7	09	7.2
400	31	7,594	-14.9	-29.5	09	6.0
350	31	8,594	-21.7	-36.2	08	4.3
300	31	9,708	-30.1	-43.8	07	2.1
250	30	10,979	-41.1	-52.7	32	2.2
200	30	12,452	-52.4		31	3.6
175	30	13,313	-59.0		31	3.4
150	30	14,262	-66.5		34	3.5
125	30	15,347	-73.7		03	4.5
100	30	16,627	-79.9		06	8.1
80	30	17,891	-77.1		07	4.6
70	30	18,672	-70.4		29	3.5
60	30	19,599	-65.6		27	10.2
50	29	20,721	-61.0		27	11.6
40	29	22,122	-57.0		26	11.2
30	28	23,957	-53.2		27	9.4
25	26	25,142	-49.9		27	9.0
20	25	26,608	-48.2		27	7.5
15	16	28,513	-45.3		26	3.8
10						

* MEDFORD, OR
977 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	401	3.1	1.6	29	.2
1000						
950	31	627	2.8	1.6	25	.3
900	31	1,066	4.2	-.8	18	1.8
850	31	1,531	3.7	-5.7	23	2.9
800	31	2,022	1.8	-9.4	26	5.0
750	31	2,540	-.5	-13.5	28	7.8
700	31	3,089	-3.4	-17.2	28	9.1
650	31	3,671	-7.0	-19.0	28	10.0
600	31	4,292	-10.3	-23.2	28	10.9
550	31	4,957	-14.7	-28.4	28	12.7
500	31	5,671	-19.5	-31.0	28	14.7
450	31	6,446	-24.9	-36.6	29	16.4
400	31	7,292	-31.2	-41.4	29	17.9
350	31	8,228	-38.0	-46.5	29	19.6
300	31	9,269	-45.7		29	21.3
250	31	10,462	-53.7		29	22.5
200	31	11,876	-59.2		29	23.0
175	31	12,712	-59.7		29	19.6
150	31	13,675	-60.3		29	17.1
125	31	14,809	-61.5		29	15.4
100	30	16,190	-62.4		29	11.2
80	30	17,566	-62.2		30	8.7
70	30	18,394	-61.4		30	6.4
60	28	19,351	-59.6		32	5.2
50	27	20,497	-58.2		33	4.7
40	26	21,904	-56.9		36	4.4
30	26	23,734	-55.3		01	4.8
25	26	24,899	-54.5		01	6.1
20	25	26,327	-54.5		01	7.4
15	22	28,170	-54.4		36	9.6
10	8	30,800	-52.2			

MERIDA, MEXICO
1017 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	11	17.1	16.3	08	.7
1000	31	154	20.3	17.0	08	3.4
950	31	596	18.3	13.8	09	5.3
900	31	1,058	15.6	9.1	09	4.0
850	31	1,541	12.7	4.9	09	2.5
800	31	2,049	10.6	.7	09	1.6
750	31	2,585	8.6	-4.5	12	.9
700	31	3,153	6.5	-10.5	06	.7
650	31	3,757	3.3	-14.8	31	1.1
600	31	4,402	.0	-19.2	29	2.3
550	31	5,094	-4.1	-23.8	27	3.2
500	31	5,838	-9.3	-27.9	26	4.8
450	31	6,644	-14.9	-32.6	25	7.0
400	31	7,524	-21.5	-37.4	25	9.1
350	31	8,497	-28.8	-43.7	26	11.5
300	31	9,577	-37.6	-51.7	27	12.9
250	31	10,810	-47.3		26	14.4
200	30	12,252	-57.8		26	15.9
175	30	13,086	-62.2		26	16.6
150	30	14,030	-65.2		25	18.7
125	30	15,132	-68.6		25	20.3
100	30	16,450	-74.1		25	13.5
80	29	17,738	-75.5		25	9.1
70	29	18,515	-73.3		25	2.7
60	28	19,427	-69.2		10	1.8
50	27	20,529	-63.9		11	2.7
40	26	21,911	-59.6		06	3.0
30	25	23,737	-54.0		08	2.7
25	25	24,916	-50.9		06	3.3
20	24	26,376	-47.8		06	3.1
15	23	28,288	-44.8		12	1.3
10	6	30,991	-42.0			

MIAMI, FL
1020 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	4	17.5	13.5	04	1.6
1000	31	172	18.2	13.2	07	2.9
950	31	611	15.7	12.0	10	4.1
900	31	1,069	12.9	9.1	12	3.0
850	31	1,547	10.3	3.3	16	1.7
800	31	2,050	8.2	-1.4	19	1.4
750	31	2,583	7.2	-8.8	23	1.7
700	31	3,148	4.8	-12.0	27	3.3
650	31	3,749	1.5	-16.1	27	4.6
600	31	4,389	-2.5	-20.9	27	6.0
550	31	5,074	-6.7	-23.9	27	8.3
500	31	5,811	-11.7	-28.0	27	10.7
450	31	6,609	-17.1	-33.9	27	13.3
400	31	7,481	-23.7	-39.4	27	16.6
350	31	8,445	-31.1	-44.6	27	21.2
300	31	9,516	-39.4	-50.8	27	22.3
250	31	10,742	-48.0		27	27.0
200	31	12,182	-57.1		27	29.5
175	31	13,019	-60.9		26	28.7
150	30	13,975	-63.7		27	28.3
125	30	15,087	-66.8		27	22.5
100	30	16,420	-71.4		27	18.5
80	29	17,732	-72.6		27	10.1
70	29	18,519	-71.0		26	7.0
60	29	19,439	-67.8		26	4.6
50	29	20,547	-63.4		33	2.6
40	28	21,933	-58.7		04	1.1
30	28	23,761	-54.1		32	1.5
25	28	24,937	-51.7		32	1.9
20	26	26,399	-48.4		30	1.5
15	23	28,297	-45.1		26	6.6
10	5	30,997	-42.0			

MIDLAND, TX
919 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	874	1.6	-3.2	30	1.0
1000						
950						
900	31	1,041	6.6	-3.8	29	1.2
850	31	1,511	8.0	-8.1	27	3.9
800	31	2,010	6.6	-10.6	28	5.2
750	31	2,538	4.2	-13.3	28	6.3
700	31	3,096	1.0	-16.3	28	7.2
650	31	3,686	-2.5	-20.5	28	8.3
600	31	4,318	-6.5	-23.5	28	8.6
550	31	4,992	-10.8	-27.3	28	10.3
500	31	5,718	-16.0	-30.8	28	11.5
450	30	6,502	-21.9	-35.5	27	13.4
400	30	7,357	-28.5	-41.0	27	15.5
350	30	8,302	-35.9	-45.8	27	16.7
300	30	9,354	-43.6		27	19.5
250	30	10,557	-52.2		27	22.1
200	30	11,978	-58.6		27	24.2
175	30	12,811	-61.1		27	22.9
150	30	13,767	-62.0		27	18.8
125	29	14,892	-64.0		27	17.1
100	29	16,253	-66.1		27	13.5
80	27	17,601	-67.2		27	11.2
70	27	18,409	-66.4		27	9.0
60	27	19,345	-65.0		28	5.9
50	26	20,467	-62.1		29	2.7
40	25	21,856	-59.2		27	1.6
30	25	23,674	-56.1		31	1.6
25	25	24,839	-54.0		30	2.3
20	25	26,278	-52.1		28	4.9
15	21	28,158	-50.0		28	7.8
10	8	30,844	-45.9			

RAWINSONDE DATA

Average monthly values

MONTERREY, MEXICO
947 MB

Standard pressure (mb)	No. of observations	Geopotential height (meters)	Temperature (°C)	Dew Point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (m/s)
SFC	31	[illegible]	8.1	3.9	3[illegible]	1.7
950	31	5[illegible]	11.[illegible]	6.2	33	1.9
900	31	1,0[illegible]3	1[illegible].9	4.[illegible]	34	1.4
850	31	1,[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
800	31	[illegible]	9.2	-2.5	[illegible]	2.8
750	31	[illegible]7	7.2	-5.3	25	4.1
700	31	3,131	4.1	-9.3	27	[illegible].4
650	31	3,7[illegible]	.3	-1[illegible]	27	[illegible]
600	31	[illegible]	-4.1	-1[illegible]	26	[illegible]
550	31	5,[illegible]8	-8.3	[illegible]	2[illegible]	10.4
500	31	5,781	[illegible]	[illegible]	[illegible]	[illegible]
450	31	6,577	-18.2	-31.0	[illegible]	[illegible]
400	31	7,445	-2[illegible].8	-37.5	26	17.1
350	31	[illegible]	[illegible]	[illegible].3	25	19.8
300	31	9,472	[illegible]	[illegible]	[illegible]	[illegible]
250	31	[illegible]	-49.9		25	27.3
200	31	12,116	-5[illegible].3		[illegible]	[illegible]
175	[illegible]	12,9[illegible]	[illegible]		[illegible]	24.9
150	[illegible]	13,8[illegible]	-6[illegible].6		[illegible]	23.8
125	[illegible]	15,000	-66.7		[illegible]	21.9
100	[illegible]	16,339	-69.1		[illegible]	[illegible]
80	[illegible]	17,665	-70.9		[illegible]	10.3
70	[illegible]	18,459	-69.7		[illegible]	8.4
60	[illegible]	[illegible]	-67.9		27	5.0
50	[illegible]	[illegible]	-63.8		[illegible]	[illegible]
40	[illegible]	21,872	-59.5		[illegible]	1.0
30	[illegible]	23,688	-55.9		[illegible]	.5
25	27	24,857	-53.4		36	.7
20	27	26,302	-51.1		3[illegible]	1.3
15	[illegible]	28,197	[illegible]		27	[illegible]
10	[illegible]	30,879	-45.7			

MONETT, MO
[illegible] MB

Standard pressure (mb)	No. of observations	Geopotential height (meters)	Temperature (°C)	Dew Point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (m/s)
SFC	31	438	[illegible]	-1.[illegible]	[illegible]	[illegible]
950	31	459	1.8	-2.7	[illegible]	[illegible]
900	31	1,025	[illegible]	-4.7	[illegible]	[illegible]
850	31	1,487	2.5	-7.1	[illegible]	[illegible]
800	31	1,977	1.1	-10.0	[illegible]	[illegible]
750	31	2,494	-1.0	-13.2	[illegible]	[illegible]
700	31	3,042	-3.6	-17.2	[illegible]	[illegible]
650	31	3,625	-6.2	-20.7	[illegible]	[illegible]
600	31	4,247	-9.7	-23.5	[illegible]	[illegible]
550	31	4,913	-14.0	-28.2	[illegible]	13.8
500	31	5,630	-18.6	-33.3	[illegible]	15.7
450	31	6,407	-24.4	-37.7	[illegible]	18.5
400	31	7,254	-30.8	[illegible]	[illegible]	21.1
350	[illegible]	8,192	-37.7	[illegible]	[illegible]	23.4
300	[illegible]	9,235	-45.7		[illegible]	25.7
250	[illegible]	10,429	-52.5		[illegible]	28.3
200	[illegible]	11,858	-56.9		[illegible]	30.1
175	29	12,702	-57.9		[illegible]	27.5
150	[illegible]	13,671	-58.8		[illegible]	24.4
125	[illegible]	14,812	-60.9		[illegible]	[illegible]
100	29	[illegible]	-63.1		[illegible]	[illegible]
80	28	17,563	[illegible]		[illegible]	[illegible]
70	28	18,385	-62.7		[illegible]	9.4
60	28	[illegible]	-62.0		[illegible]	5.6
50	[illegible]	20,471	-60.5		[illegible]	[illegible]
40	24	21,873	-59.1		[illegible]	[illegible]
30	[illegible]	[illegible]	-56.3		[illegible]	[illegible]
25	[illegible]	24,848	-55.8		[illegible]	[illegible]
20	[illegible]	26,266	-54.7		[illegible]	[illegible]
15	[illegible]	28,131	-52.2		[illegible]	[illegible]
10	8	30,807	-48.7			

NASHVILLE, TN
[illegible] MB

Standard pressure (mb)	No. of observations	Geopotential height (meters)	Temperature (°C)	Dew Point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (m/s)
SFC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.9
1000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.8
950	31	597	[illegible]	[illegible]	[illegible]	5.1
900	31	1,034	[illegible]	[illegible]	[illegible]	7.3
850	31	[illegible]	[illegible]	[illegible]	[illegible]	7.5
800	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
750	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10.9
700	31	3,045	[illegible]	[illegible]	[illegible]	12.5
650	31	3,625	-7.4	-19.3	[illegible]	[illegible]
600	[illegible]	4,245	-10.8	-23.1	[illegible]	15.6
550	[illegible]	4,909	-14.6	-27.2	[illegible]	17.8
500	[illegible]	5,624	-19.3	-32.4	[illegible]	19.7
450	[illegible]	6,400	-24.5	-36.2	[illegible]	22.7
400	[illegible]	7,247	-30.7	[illegible]	[illegible]	[illegible]
350	[illegible]	8,184	-37.8	-46.2	[illegible]	27.2
300	[illegible]	9,227	-45.5		[illegible]	30.9
250	[illegible]	[illegible]	-52.3		[illegible]	34.8
200	[illegible]	[illegible]	-56.2		[illegible]	33.1
175	[illegible]	12,695	-57.5		[illegible]	31.3
150	[illegible]	13,663	-59.8		[illegible]	28.5
125	[illegible]	14,799	-61.1		[illegible]	25.4
100	[illegible]	16,177	-63.2		[illegible]	19.7
80	[illegible]	17,544	-64.4		[illegible]	16.0
70	[illegible]	18,362	[illegible]		[illegible]	11.2
60	[illegible]	[illegible]	[illegible]		[illegible]	8.0
50	[illegible]	20,439	[illegible]		[illegible]	7.4
40	[illegible]	[illegible]	[illegible]		[illegible]	3.7
30	[illegible]	23,648	-56.6		28	5.0
25	[illegible]	[illegible]	-55.1		29	[illegible]
20	[illegible]	26,241	-53.7		[illegible]	[illegible]
15	[illegible]	28,093	-51.6		[illegible]	[illegible]
10	[illegible]	[illegible]	-44.9			

NOME, AK
[illegible] MB

Standard pressure (mb)	No. of observations	Geopotential height (meters)	Temperature (°C)	Dew Point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (m/s)
SFC	[illegible]	[illegible]	[illegible]	-19.[illegible]	[illegible]	[illegible]
1000	[illegible]	146	[illegible]	-22.[illegible]	[illegible]	[illegible]
950	31	[illegible]	-13.2	-17.5	[illegible]	[illegible]
900	31	854	-13.4	-17.7	[illegible]	[illegible]
850	31	1,289	-13.9	-18.7	[illegible]	[illegible]
800	31	[illegible]	-15.5	[illegible]	[illegible]	[illegible]
750	31	2,234	-17.7	-24.7	19	[illegible]
700	31	2,747	-20.7	-27.1	[illegible]	[illegible]
650	31	[illegible]	-23.5	-31.9	[illegible]	[illegible]
600	31	3,873	-27.3	-35.1	[illegible]	[illegible]
550	31	4,494	-31.4	-37.6	[illegible]	[illegible]
500	31	5,163	-35.7	-40.3	[illegible]	3.5
450	31	5,889	[illegible]	-40.8	28	[illegible]
400	31	6,683	-45.6		28	[illegible]
350	31	7,566	-50.7		27	[illegible]
300	31	8,557	-54.7		27	6.3
250	31	[illegible]	-56.4		26	7.8
200	31	11,141	-54.0		25	[illegible]
175	31	11,999	-53.5		25	11.4
150	31	12,991	-53.6		26	[illegible]
125	[illegible]	14,164	-53.5		25	[illegible]
100	[illegible]	15,598	-53.5		25	18.3
80	[illegible]	17,035	-53.5		26	[illegible]
70	[illegible]	17,893	-54.1		26	23.5
60	[illegible]	18,882	-54.5		26	[illegible]
50	[illegible]	[illegible]	-54.9		26	[illegible]
40	28	21,463	-55.6		26	[illegible]
30	[illegible]	23,306	-55.6		26	35.3
25	[illegible]	[illegible]	-56.1		26	39.3
20	[illegible]	25,924	-56.7		26	[illegible]
15	[illegible]	27,805	-57.3			

NORTH PLATTE, NE
[illegible] MB

Standard pressure (mb)	No. of observations	Geopotential height (meters)	Temperature (°C)	Dew Point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (m/s)
SFC	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
900	31	[illegible]	-2.1	[illegible]	[illegible]	4.2
850	31	1,467	[illegible]	[illegible]	[illegible]	8.5
800	31	1,954	[illegible]	[illegible]	[illegible]	9.3
750	31	2,470	-1.9	-12.5	32	10.7
700	31	3,010	-4.0	-14.8	31	11.5
650	31	3,590	[illegible]	-18.0	30	[illegible]
600	31	4,214	-11.7	[illegible]	[illegible]	[illegible]
550	31	4,876	[illegible]	[illegible]	[illegible]	13.4
500	31	5,587	-20.7	-31.7	30	14.7
450	31	[illegible]	-26.0	-36.2	30	16.2
400	31	7,200	-32.4	-42.5	29	17.3
350	31	[illegible]	-39.4	[illegible]	[illegible]	19.0
300	31	9,166	-47.2		29	20.5
250	31	10,352	-54.1		[illegible]	[illegible]
200	31	[illegible]	-57.7		[illegible]	24.1
175	31	12,613	-57.1		[illegible]	22.8
150	31	13,587	-58.0		29	21.5
125	31	14,731	-59.7		29	19.2
100	31	16,120	[illegible]		[illegible]	14.8
80	[illegible]	17,513	-61.5		29	[illegible]
70	[illegible]	18,346	-60.2		[illegible]	[illegible]
60	[illegible]	19,310	[illegible]		30	6.8
50	24	[illegible]	-59.0		31	6.2
40	[illegible]	21,857	-57.7		[illegible]	4.6
30	[illegible]	23,686	[illegible]		[illegible]	5.5
25	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
20	[illegible]	26,265	[illegible]		[illegible]	6.7
15	13	[illegible]	-56.1		[illegible]	[illegible]

OAKLAND, CA
1023 MB

Standard pressure (mb)	No. of observations	Geopotential height (meters)	Temperature (°C)	Dew Point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (m/s)
SFC	31	[illegible]	6.9	[illegible].9	29	[illegible]
1000	31	[illegible]	9.6	3.7	35	1.2
950	31	616	9.6	-.8	36	[illegible]
900	31	1,066	10.0	-5.3	36	[illegible]
850	31	1,540	9.[illegible]	-9.3	34	[illegible]
800	31	2,040	6.9	-10.5	33	[illegible]
750	31	2,567	3.8	-13.7	32	[illegible]
700	31	[illegible]	[illegible]	-17.0	31	[illegible]
650	31	3,713	-3.5	-20.9	31	7.4
600	31	4,342	-7.3	-24.1	31	8.7
550	31	5,014	-11.7	-27.1	31	9.7
500	31	5,737	-16.6	-31.6	30	[illegible]
450	31	6,521	-22.1	-37.6	30	[illegible]
400	31	7,375	-28.8	-43.2	30	[illegible]
350	30	8,318	-36.5	-47.7	30	[illegible]
300	30	9,365	-44.8		30	14.4
250	30	10,562	-53.3		30	[illegible]
200	[illegible]	11,975	-59.3		30	14.7
175	29	12,806	-61.8		30	[illegible]
150	[illegible]	13,762	-61.3		29	[illegible]
125	29	14,890	-63.1		29	[illegible]
100	[illegible]	16,256	-65.3		30	[illegible]
80	[illegible]	17,616	-64.3		30	[illegible]
70	[illegible]	18,438	-63.3		32	4.3
60	[illegible]	19,389	[illegible]		34	[illegible]
50	[illegible]	20,523	-59.9		02	[illegible]
40	[illegible]	21,921	-58.4		04	4.1
30	[illegible]	[illegible]	-55.7		05	[illegible]
25	[illegible]	[illegible]	-54.4		05	[illegible]
20	[illegible]	[illegible]	-53.3		04	[illegible]
15	[illegible]	28,198	-52.1		[illegible]	[illegible]
10	[illegible]	30,823	-50.7		35	[illegible]
7	[illegible]	33,167	-48.2			

OMAHA, NE
[illegible] MB

Standard pressure (mb)	No. of observations	Geopotential height (meters)	Temperature (°C)	Dew Point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (m/s)
SFC	31	403	-3.9	[illegible]	[illegible]	[illegible]
950	31	[illegible]	-3.5	[illegible]	[illegible]	1.3
900	31	997	-1.5	[illegible]	[illegible]	3.5
850	31	1,453	-1.5	[illegible]	[illegible]	5.2
800	31	1,936	-1.9	[illegible]	[illegible]	7.3
750	31	2,448	-3.5	[illegible]	[illegible]	[illegible]
700	31	2,990	-6.5	[illegible]	[illegible]	[illegible]
650	31	3,566	-9.9	[illegible]	[illegible]	11.9
600	31	4,179	-13.5	-25.6	[illegible]	13.7
550	31	4,836	-17.4	-30.2	[illegible]	14.4
500	31	5,544	-22.0	[illegible]	[illegible]	15.7
450	31	6,311	-27.0	-39.7	[illegible]	[illegible]
400	31	7,150	-33.0	-44.8	[illegible]	18.8
350	30	8,081	-39.7	-50.0	[illegible]	[illegible]
300	[illegible]	9,115	-47.0		[illegible]	[illegible]
250	[illegible]	10,304	-53.8		[illegible]	[illegible]
200	30	11,725	-56.3		28	[illegible]
175	[illegible]	12,573	-56.7		[illegible]	[illegible]
150	[illegible]	13,549	-57.4		[illegible]	[illegible]
125	[illegible]	14,698	-56.9		[illegible]	[illegible]
100	[illegible]	[illegible]	-60.5		[illegible]	16.5
80	29	17,483	-60.6		[illegible]	[illegible]
70	[illegible]	18,316	-60.1		[illegible]	8.4
60	[illegible]	19,279	-59.7		[illegible]	8.3
50	28	[illegible]	-58.7		[illegible]	6.5
40	27	21,827	-58.0		[illegible]	[illegible]
30	27	23,642	-57.2		[illegible]	5.6
25	23	24,800	-56.7		[illegible]	6.6
20	18	26,210	-56.0		[illegible]	[illegible]
15	14	28,052	-56.2		[illegible]	[illegible]

PAGO PAGO, AMERICAN SAMOA
[illegible] MB

Standard pressure (mb)	No. of observations	Geopotential height (meters)	Temperature (°C)	Dew Point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (m/s)
SFC	29	5	[illegible]	23.4	06	[illegible]
1000	29	93	26.6	22.1	06	[illegible]
950	[illegible]	546	23.2	19.8	05	[illegible]
900	29	1,016	19.8	16.7	04	3.9
850	[illegible]	1,507	16.7	12.4	04	[illegible]
800	[illegible]	2,023	13.9	[illegible]	[illegible]	[illegible]
750	29	2,566	11.5	4.9	05	[illegible]
700	29	3,141	8.5	1.5	05	2.2
650	[illegible]	3,751	5.3	-1.3	08	[illegible]
600	29	4,401	1.7	-4.8	10	[illegible]
550	[illegible]	5,099	[illegible]	-9.0	10	[illegible]
500	[illegible]	5,851	-6.2	-14.7	14	[illegible]
450	[illegible]	[illegible]	-11.1	-21.2	15	[illegible]
400	[illegible]	[illegible]	-16.7	-28.4	17	[illegible]
350	29	[illegible]	-23.8	-36.3	17	[illegible]
300	[illegible]	9,660	-32.4	-44.9	[illegible]	[illegible]
250	[illegible]	10,918	-42.7		18	[illegible]
200	[illegible]	12,385	-54.7		19	[illegible]
175	[illegible]	13,227	-61.2		20	9.2
150	[illegible]	14,167	-68.4		20	10.4
125	[illegible]	15,245	-74.2		20	8.4
100	29	16,531	-78.1		16	5.4
80	[illegible]	17,817	-74.0		11	5.1
70	29	18,602	-70.8		09	5.9
60	[illegible]	19,526	-67.1		09	7.4
50	[illegible]	[illegible]	-61.9		[illegible]	[illegible]
40	[illegible]	22,029	-59.0		08	6.8
30	[illegible]	23,853	-54.5		08	5.9
25	[illegible]	25,029	-51.5		[illegible]	[illegible]
20	[illegible]	26,491	-48.0		08	[illegible]
15	[illegible]	28,406	-44.7		[illegible]	[illegible]
10	7	31,105	-39.1			

PEORIA, IL
996 MB

Standard pressure (mb)	No. of observations	Geopotential height (meters)	Temperature (°C)	Dew Point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (m/s)
SFC	31	200	-2.6	-4.7	29	[illegible]
1000	[illegible]	222	-6.1	-9.0	36	2.0
950	31	576	-3.0	-5.6	27	2.8
900	31	1,004	-2.6	-8.8	28	5.1
850	31	1,458	-2.9	-12.1	28	7.4
800	31	1,938	-3.4	-15.4	28	9.6
750	31	2,447	-5.2	-18.1	28	10.9
700	31	2,986	-7.9	-19.3	28	12.0
650	31	3,559	-10.8	-22.8	28	13.3
600	31	4,170	-14.5	-26.1	28	15.5
550	31	4,824	-18.7	-29.7	28	16.8
500	31	5,528	-23.3	-34.8	28	18.6
450	31	6,291	-28.6	-40.0	28	20.0
400	30	7,125	-34.4	-45.7	28	23.8
350	30	8,049	-41.2	-49.7	28	[illegible]
300	29	9,077	-48.2		28	27.5
250	28	10,254	-53.6		28	27.0
200	28	11,680	-56.0		27	26.9
175	[illegible]	12,532	-56.0		28	24.8
150	[illegible]	13,510	-57.2		28	21.9
125	[illegible]	14,660	-58.7		28	19.2
100	26	16,050	[illegible]		28	15.6
80	25	17,442	-61.1		28	11.9
70	24	18,272	-60.7		28	10.4
60	22	19,234	-60.4		29	9.6
50	22	20,371	-59.9		29	6.6
40	21	21,770	-59.0		29	4.5
30	21	23,580	-58.0		30	6.5
25	18	24,732	-57.7		30	6.1
20	15	26,151	-56.5		29	10.5
15	13	27,960	-56.9		29	13.3

PITTSBURGH, PA
[illegible] MB

Standard pressure (mb)	No. of observations	Geopotential height (meters)	Temperature (°C)	Dew Point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (m/s)
SFC	31	359	[illegible]	-5.4	[illegible]	[illegible]
950	31	583	[illegible]	[illegible]	[illegible]	[illegible]
900	31	1,015	[illegible]	[illegible]	[illegible]	[illegible]
850	31	1,468	[illegible]	[illegible]	[illegible]	[illegible]
800	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
750	31	2,452	[illegible]	-15.3	[illegible]	[illegible]
700	31	2,990	[illegible]	-17.0	[illegible]	[illegible]
650	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
600	31	4,172	[illegible]	[illegible]	[illegible]	[illegible]
550	31	4,827	[illegible]	-28.9	[illegible]	[illegible]
500	31	5,534	[illegible]	-33.4	[illegible]	[illegible]
450	31	6,299	[illegible]	-37.8	[illegible]	26.1
400	31	7,135	[illegible]	[illegible]	[illegible]	28.2
350	31	8,061	-40.4	[illegible]	[illegible]	29.7
300	31	9,093	-47.1		[illegible]	31.9
250	31	10,285	-52.7		[illegible]	35.3
200	31	11,715	[illegible]		[illegible]	33.3
175	31	12,560	[illegible]		[illegible]	[illegible]
150	31	13,547	[illegible]		[illegible]	28.7
125	31	14,700	[illegible]		[illegible]	25.7
100	[illegible]	16,102	[illegible]		[illegible]	20.7
80	[illegible]	17,498	[illegible]		[illegible]	[illegible]
70	[illegible]	18,333	[illegible]		[illegible]	[illegible]
60	[illegible]	19,298	[illegible]		[illegible]	[illegible]
50	[illegible]	20,439	[illegible]		[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
30	[illegible]	23,655	[illegible]		[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
15	[illegible]	28,051	[illegible]			

PONAPE, CAROLINE IS.
1004 MB

Standard pressure (mb)	No. of observations	Geopotential height (meters)	Temperature (°C)	Dew Point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (m/s)
SFC	31	[illegible]	27.2	[illegible]	[illegible]	[illegible]
1000	31	[illegible]	26.5	[illegible]	[illegible]	[illegible]
950	31	[illegible]	23.1	[illegible]	[illegible]	[illegible]
900	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
850	31	[illegible]	[illegible]	[illegible]	[illegible]	10.0
800	31	2,006	15.7	[illegible]	[illegible]	8.7
750	31	2,553	[illegible]	5.8	[illegible]	7.4
700	31	3,130	9.5	4.9	[illegible]	7.1
650	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
600	31	4,395	2.6	[illegible]	[illegible]	8.9
550	31	5,095	[illegible]	[illegible]	[illegible]	[illegible]
500	31	5,851	[illegible]	[illegible]	[illegible]	8.1
450	31	6,673	-9.5	[illegible]	[illegible]	7.4
400	31	7,574	-15.1	[illegible]	[illegible]	7.1
350	31	8,574	[illegible]	[illegible]	[illegible]	[illegible]
300	31	9,688	[illegible]	[illegible]	[illegible]	[illegible]
250	31	10,960	[illegible]	[illegible]	[illegible]	[illegible]
200	31	12,441	-52.9		[illegible]	2.1
175	31	13,289	-59.8		[illegible]	2.4
150	31	14,235	-67.5		[illegible]	1.8
125	31	15,313	-75.3		[illegible]	3.8
100	31	16,580	-82.6		[illegible]	[illegible]
80	31	17,828	-78.8		[illegible]	7.1
70	31	18,603	-71.8		[illegible]	2.6
60	31	19,524	-66.8		[illegible]	8.7
50	31	20,641	-61.6		[illegible]	[illegible]
40	31	22,036	-58.2		[illegible]	11.6
30	[illegible]	23,866	-54.1		[illegible]	[illegible]
25	[illegible]	25,042	-51.6		[illegible]	8.7
20	[illegible]	26,501	-49.0		[illegible]	[illegible]
15	[illegible]	28,411	-46.0		24	[illegible]
10	[illegible]	31,120	-41.9			

PORTLAND, ME
1018 MB

Standard pressure (mb)	No. of observations	Geopotential height (meters)	Temperature (°C)	Dew Point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (m/s)
SFC	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1000	31	164	-5.3	[illegible]	[illegible]	[illegible]
950	31	562	[illegible]	[illegible]	[illegible]	[illegible]
900	31	988	-5.4	[illegible]	[illegible]	[illegible]
850	31	1,436	[illegible]	-13.6	[illegible]	[illegible]
800	31	1,910	[illegible]	-15.1	[illegible]	[illegible]
750	31	2,413	[illegible]	-18.6	[illegible]	[illegible]
700	31	2,945	-11.1	-21.5	[illegible]	[illegible]
650	31	3,512	-13.4	-24.1	[illegible]	[illegible]
600	31	4,117	-16.7	[illegible]	[illegible]	[illegible]
550	31	4,767	-20.1	-30.4	[illegible]	22.5
500	31	5,467	-24.8	-34.5	[illegible]	25.3
450	31	6,226	-30.0	-38.4	[illegible]	28.6
400	31	7,056	[illegible]	-44.6	[illegible]	31.9
350	31	7,976	-41.7	-46.7	[illegible]	31.3
300	31	9,002	-48.7		[illegible]	31.7
250	31	10,188	-53.7		[illegible]	31.4
200	31	11,618	-54.8		[illegible]	28.8
175	31	12,472	-55.4		[illegible]	[illegible]
150	31	13,454	-55.7		[illegible]	25.2
125	[illegible]	[illegible]	-56.6		[illegible]	23.2
100	[illegible]	16,023	-57.6		[illegible]	20.3
80	[illegible]	17,423	-58.8		[illegible]	16.8
70	[illegible]	18,262	-58.7		[illegible]	[illegible]
60	[illegible]	19,231	-58.6		[illegible]	[illegible]
50	26	20,374	-58.7		[illegible]	12.3
40	25	21,779	-59.0		[illegible]	11.2
30	[illegible]	23,587	-58.1		[illegible]	13.7
25	[illegible]	24,745	-58.1		[illegible]	15.1
20	[illegible]	26,152	-58.1		[illegible]	15.7
15	[illegible]	[illegible]	-57.6		[illegible]	23.2
10	[illegible]	30,535	-55.2			

QUILLAYUTE, WA
[illegible] MB

Standard pressure (mb)	No. of observations	Geopotential height (meters)	Temperature (°C)	Dew Point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (m/s)
SFC	31	58	[illegible]	[illegible]	[illegible]	1.2
1000	[illegible]	[illegible]	[illegible]	2.5	[illegible]	2.4
950	[illegible]	577	[illegible]	[illegible]	[illegible]	5.8
900	[illegible]	1,015	[illegible]	-2.5	[illegible]	7.4
850	[illegible]	1,475	[illegible]	-5.7	[illegible]	8.3
800	[illegible]	1,958	[illegible]	-9.9	[illegible]	9.4
750	[illegible]	2,470	[illegible]	-12.1	[illegible]	11.3
700	31	3,011	[illegible]	-16.1	[illegible]	13.2
650	[illegible]	3,585	-10.3	[illegible]	[illegible]	15.3
600	[illegible]	4,198	-13.8	-22.3	[illegible]	16.9
550	[illegible]	4,855	-17.5	-25.4	[illegible]	[illegible]
500	[illegible]	5,563	[illegible]	-29.2	[illegible]	19.8
450	[illegible]	6,342	[illegible]	-33.9	[illegible]	21.6
400	[illegible]	7,181	[illegible]	-39.7	[illegible]	23.3
350	[illegible]	[illegible]	[illegible]	-42.8	[illegible]	25.5
300	[illegible]	9,139	[illegible]		[illegible]	26.6
250	[illegible]	10,374	[illegible]		[illegible]	26.9
200	[illegible]	11,738	[illegible]		[illegible]	26.6
175	[illegible]	12,579	-57.7		[illegible]	25.0
150	[illegible]	13,547	-57.2		[illegible]	22.4
125	[illegible]	14,697	-58.1		[illegible]	19.6
100	[illegible]	16,100	-58.9		[illegible]	17.2
80	[illegible]	17,494	[illegible]		[illegible]	11.5
70	[illegible]	18,344	-57.3		[illegible]	8.5
60	[illegible]	19,319	[illegible]		[illegible]	9.1
50	[illegible]	20,466	-56.5		[illegible]	10.1
40	[illegible]	21,891	-56.0		[illegible]	8.1
30	[illegible]	23,745	-54.9			
25	[illegible]	24,929	[illegible]			
20	[illegible]	[illegible]	[illegible]			

RAPID CITY, SD
904 MB

Standard pressure (mb)	No. of observations	Geopotential height (meters)	Temperature (°C)	Dew Point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (m/s)
SFC	31	966	-3.3	-7.3	33	2.4
900	[illegible]	1,030	[illegible]	-8.2	32	2.8
850	31	1,461	.3	-9.0	[illegible]	[illegible]
800	31	1,946	[illegible]	-10.2	[illegible]	[illegible]
750	31	2,459	[illegible]	-11.7	[illegible]	[illegible]
700	31	3,000	[illegible]	-15.4	[illegible]	[illegible]
650	31	3,575	-10.1	-18.0	[illegible]	[illegible]
600	31	4,188	-13.6	-22.3	[illegible]	[illegible]
550	31	4,845	-17.8	-27.6	[illegible]	[illegible]
500	31	5,551	[illegible]	-32.5	[illegible]	18.8
450	31	6,316	[illegible]	-36.7	[illegible]	18.8
400	31	7,151	[illegible]	-42.5	[illegible]	19.6
350	31	8,074	[illegible]	-47.3	[illegible]	[illegible]
300	31	9,102	[illegible]		[illegible]	[illegible]
250	31	[illegible]	[illegible]		[illegible]	[illegible]
200	[illegible]	11,697	[illegible]		[illegible]	[illegible]
175	[illegible]	12,544	[illegible]		[illegible]	[illegible]
150	[illegible]	13,521	-57.3		[illegible]	[illegible]
125	[illegible]	14,670	-59.0		[illegible]	[illegible]
100	31	16,067	-60.1		[illegible]	[illegible]
80	[illegible]	17,460	-60.1		[illegible]	[illegible]
70	[illegible]	18,293	-59.8		[illegible]	[illegible]
60	[illegible]	19,257	-59.5		[illegible]	[illegible]
50	[illegible]	20,401	[illegible]		[illegible]	[illegible]
40	[illegible]	21,805	-57.7		[illegible]	[illegible]
30	[illegible]	23,624	-57.4		[illegible]	[illegible]
25	[illegible]	24,784	-57.1		[illegible]	[illegible]
20	[illegible]	26,204	[illegible]		[illegible]	[illegible]
15	[illegible]	28,032	-57.5			

ST CLOUD, MN
[illegible] MB

Standard pressure (mb)	No. of observations	Geopotential height (meters)	Temperature (°C)	Dew Point (°C)	Resultant Wind Direction (tens of deg)	Resultant Wind Speed (m/s)
SFC	31	316	[illegible]	[illegible]	[illegible]	[illegible]
950	31	572	[illegible]	-11.4	[illegible]	[illegible]
900	31	992	[illegible]	-13.7	[illegible]	3.4
850	31	1,438	[illegible]	-16.7	[illegible]	5.6
800	31	1,912	[illegible]	-18.8	[illegible]	6.8
750	31	[illegible]	[illegible]	-20.7	[illegible]	8.8
700	31	[illegible]	[illegible]	-22.1	[illegible]	11.3
650	[illegible]	3,511	[illegible]	-25.4	[illegible]	13.6
600	[illegible]	4,115	[illegible]	-28.1	[illegible]	15.1
550	[illegible]	4,762	[illegible]	-31.6	[illegible]	16.2
500	31	5,459	[illegible]	[illegible]	[illegible]	[illegible]
450	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
400	31	7,041	[illegible]	[illegible]	[illegible]	20.8
350	31	7,958	[illegible]	[illegible]	[illegible]	[illegible]
300	31	[illegible]	[illegible]		[illegible]	24.9
250	31	10,155	[illegible]		[illegible]	26.2
200	[illegible]	11,579	[illegible]		[illegible]	25.7
175	[illegible]	12,433	[illegible]		[illegible]	[illegible]
150	[illegible]	13,418	[illegible]		[illegible]	[illegible]
125	[illegible]	14,579	[illegible]		[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
80	31	17,402	[illegible]		[illegible]	[illegible]
70	31	[illegible]	[illegible]		[illegible]	12.9
60	[illegible]	[illegible]	[illegible]		[illegible]	11.7
50	[illegible]	20,383	[illegible]		[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]		[illegible]	10.1
30	[illegible]	23,589	[illegible]		[illegible]	8.6
25	[illegible]	24,743	[illegible]		[illegible]	10.4
20	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]

RAWINSONDE DATA

Average monthly values

DECEMBER 1975

*** ST PAUL ISLAND, AK** 1001 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	30	10	-1.5	-5.1	07	2.0
1000	15	150	-3.8	-8.0	09	1.9
950	30	423	-4.5	-6.4	09	2.4
900	30	846	-7.4	-10.5	12	2.2
850	30	1,290	-9.9	-15.2	15	1.7
800	30	1,756	-11.8	-19.8	18	1.9
750	30	2,248	-14.5	-23.7	20	2.0
700	30	2,768	-17.4	-26.3	22	2.1
650	30	3,320	-20.1	-29.9	25	2.8
600	30	3,910	-23.6	-33.2	25	3.4
550	30	4,540	-27.8	-36.4	25	4.3
500	30	5,219	-32.5	-40.4	26	7.1
450	30	5,954	-37.3	-42.7	26	8.1
400	30	6,758	-43.0	-45.1	26	8.8
350	30	7,651	-48.2		24	9.7
300	30	8,653	-53.0		24	10.3
250	30	9,823	-54.7		24	9.3
200	30	11,259	-52.1		24	10.4
175	30	12,126	-50.9		24	11.7
150	30	13,131	-50.4		24	12.4
125	29	14,319	-50.0		24	14.0
100	29	15,781	-49.7		24	14.0
80	29	17,241	-49.6		24	15.1
70	29	18,116	-49.5		24	14.9
60	28	19,127	-50.1		24	16.6
50	27	20,322	-50.0		25	17.9
40	27	21,783	-49.4		25	19.8
30	24	23,665	-49.7		26	21.7
25	23	24,867	-49.6		26	23.4
20	20	26,329	-49.7		26	24.6
15	19	28,216	-50.0		26	27.4
10	9	30,888	-50.3			

SALEM, IL 999 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	174	.4	-2.4	29	.6
1000	15	205	-1.8	-5.8	35	.8
950	31	580	.5	-3.0	27	4.3
900	31	1,014	.7	-5.7	27	6.7
850	31	1,473	-.2	-7.9	28	7.8
800	31	1,958	-1.5	-9.9	28	9.2
750	31	2,470	-3.9	-13.6	28	10.4
700	31	3,012	-6.2	-17.5	28	11.1
650	31	3,589	-9.0	-19.9	28	13.3
600	31	4,205	-12.3	-23.0	28	15.4
550	31	4,865	-16.4	-27.0	27	16.7
500	31	5,575	-21.1	-32.0	28	18.8
450	31	6,345	-26.1	-38.0	27	21.3
400	31	7,187	-32.2	-43.3	27	24.4
350	31	8,119	-39.3	-47.5	27	27.3
300	31	9,155	-47.0		27	29.9
250	31	10,345	-52.9		27	32.6
200	31	11,770	-56.4		27	32.9
175	31	12,618	-56.7		27	29.5
150	31	13,594	-57.3		28	25.3
125	31	14,741	-59.7		27	21.2
100	31	16,126	-62.0		27	17.3
80	30	17,504	-61.7		28	12.1
70	30	18,332	-61.5		28	9.9
60	30	19,288	-61.1		28	8.1
50	28	20,422	-59.9		29	6.0
40	28	21,820	-58.8		30	4.4
30	27	23,632	-57.7		30	5.5
25	25	24,786	-57.3		29	5.8
20	23	26,208	-55.5		28	9.6
15	18	28,054	-53.6		28	13.3
10	6	30,628	-53.9			

SALEM, OR 1015 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	61	4.9	3.2	18	2.5
1000	30	189	5.7	3.0	19	3.3
950	31	603	5.8	2.2	21	5.8
900	31	1,045	4.4	-.9	23	7.5
850	31	1,509	2.4	-4.2	24	9.0
800	31	1,998	.6	-8.5	26	9.8
750	31	2,514	-1.3	-12.0	27	10.9
700	31	3,061	-4.5	-15.7	27	11.8
650	31	3,641	-7.9	-18.6	28	12.7
600	31	4,260	-11.6	-22.7	28	14.2
550	31	4,921	-16.1	-25.3	28	16.0
500	31	5,632	-21.2	-30.2	28	16.8
450	31	6,401	-26.4	-35.4	28	17.8
400	31	7,242	-32.5	-41.2	28	19.3
350	31	8,174	-39.0	-45.2	29	22.0
300	31	9,212	-46.2		29	22.8
250	31	10,402	-54.1		29	24.5
200	31	11,816	-58.6		29	20.6
175	31	12,655	-58.6		29	20.3
150	31	13,625	-58.5		29	19.7
125	31	14,768	-60.1		29	16.4
100	31	16,156	-61.4		29	13.4
80	29	17,545	-60.6		29	9.1
70	29	18,380	-59.6		30	7.6
60	29	19,346	-58.9		31	5.7
50	29	20,492	-57.7		32	6.0
40	29	21,903	-56.6		33	5.2
30	28	23,737	-55.6		34	5.5
25	26	24,901	-54.8		35	7.4
20	24	26,332	-54.1		35	7.9
15	21	28,172	-54.5		34	10.7
10	9	30,840	-52.9			

SALT LAKE CITY, UT 877 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	1,288	-1.4	-4.7	16	2.2
1000						
950						
900						
850	31	1,536	.2	-5.7	17	2.7
800	31	2,022	-.3	-8.1	22	2.0
750	31	2,536	-2.8	-10.0	28	4.4
700	31	3,080	-5.8	-12.1	29	6.6
650	31	3,658	-8.6	-17.0	30	9.2
600	31	4,275	-11.9	-21.3	30	10.0
550	31	4,936	-15.9	-27.4	31	11.2
500	31	5,648	-20.5	-32.9	30	12.9
450	31	6,420	-25.9	-37.6	30	13.9
400	31	7,262	-32.2	-43.4	30	15.3
350	31	8,194	-39.2	-47.2	31	16.6
300	31	9,229	-47.1		31	18.3
250	31	10,417	-54.4		30	18.8
200	31	11,829	-58.9		30	18.4
175	31	12,667	-59.3		30	18.5
150	31	13,633	-59.6		29	16.1
125	31	14,768	-61.9		30	14.6
100	31	16,145	-62.8		30	11.7
80	31	17,517	-63.2		30	9.0
70	31	18,340	-62.1		30	6.6
60	31	19,297	-60.5		31	5.1
50	31	20,435	-59.7		33	4.2
40	29	21,832	-58.2		33	4.1
30	29	23,651	-56.6		01	4.1
25	28	24,807	-56.0		35	5.8
20	27	26,232	-54.7		35	6.1
15	26	28,069	-54.5		33	7.8
10	6	30,705	-54.1			

SAN DIEGO, CA 1004 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	124	8.4	4.6	06	.7
1000	26	167	11.2	3.1	05	.9
950	31	589	13.1	-2.2	08	.4
900	31	1,042	14.9	-5.5	03	1.2
850	31	1,519	9.9	-6.5	02	1.8
800	31	2,020	6.4	-10.2	36	2.7
750	31	2,549	5.5	-14.5	33	3.6
700	31	3,110	2.7	-17.8	33	5.1
650	31	3,706	-.6	-20.6	33	6.0
600	31	4,340	-5.0	-24.0	33	6.1
550	31	5,017	-9.6	-27.6	32	6.9
500	31	5,745	-15.0	-32.2	31	7.7
450	31	6,533	-21.0	-36.7	31	8.8
400	31	7,394	-27.9	-42.1	30	10.2
350	30	8,339	-35.4	-47.6	30	11.0
300	30	9,390	-43.9		30	12.4
250	30	10,590	-52.7		29	12.8
200	30	12,005	-60.3		29	10.9
175	30	12,833	-62.2		28	11.6
150	30	13,785	-62.4		28	12.0
125	30	14,907	-64.5		28	10.3
100	30	16,267	-65.9		28	8.9
80	30	17,622	-66.0		28	6.4
70	29	18,433	-65.0		28	5.7
60	29	19,375	-64.0		29	3.2
50	29	20,498	-61.9		35	1.8
40	29	21,890	-58.6		05	3.5
30	29	23,708	-55.9		05	3.5
25	29	24,874	-54.1		05	3.5
20	28	26,310	-52.7		04	2.9
15	25	28,172	-50.7		34	3.0
10	17	30,825	-47.9		31	5.9

SAN JUAN, P. R. 1015 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	6	22.6	18.6	08	3.8
1000	31	32	22.8	17.8	08	5.2
950	31	578	19.7	16.1	08	7.3
900	31	1,042	16.1	13.6	08	6.8
850	31	1,526	12.6	10.2	07	6.6
800	31	2,033	10.0	4.3	07	5.8
750	31	2,569	8.8	-2.2	07	4.7
700	31	3,138	6.6	-8.0	06	3.0
650	31	3,743	3.6	-11.4	05	1.6
600	31	4,389	.0	-16.4	36	2.1
550	31	5,081	-3.9	-20.6	34	3.1
500	31	5,826	-8.7	-24.7	32	4.4
450	31	6,635	-13.6	-29.2	31	6.4
400	31	7,521	-19.7	-35.2	31	8.8
350	31	8,502	-26.7	-40.9	29	11.9
300	31	9,593	-35.0	-48.7	29	17.8
250	31	10,840	-44.4		29	23.5
200	30	12,300	-55.9		29	26.4
175	30	13,138	-61.4		29	25.8
150	30	14,083	-66.3		29	22.0
125	30	15,175	-70.9		30	15.9
100	30	16,482	-75.5		30	7.6
80	30	17,766	-76.9		32	2.8
70	30	18,537	-74.7		34	1.9
60	30	19,446	-69.7		35	1.4
50	29	20,549	-64.2		33	3.9
40	27	21,931	-59.2		34	4.0
30	27	23,758	-53.6		35	2.3
25	25	24,941	-51.1		35	1.9
20	24	26,403	-48.6		06	1.5
15	20	28,317	-45.2		13	1.4
10	16	31,043	-42.3		12	3.8
7	7	33,490	-38.3			

*** SAULT STE MARIE, MI** 992 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	221	-8.2	-11.3	05	.9
1000						
950	31	558	-8.4	-11.1	25	.8
900	31	977	-9.6	-12.4	26	4.2
850	31	1,417	-11.1	-15.7	27	6.5
800	31	1,882	-12.0	-21.0	28	8.6
750	31	2,375	-13.1	-22.7	29	9.7
700	31	2,898	-15.4	-25.3	28	11.1
650	31	3,456	-17.3	-27.1	28	12.8
600	31	4,053	-20.3	-31.2	28	14.7
550	31	4,692	-24.2	-34.9	28	16.6
500	31	5,382	-28.6	-38.9	28	18.9
450	31	6,129	-33.5	-42.4	28	20.9
400	30	6,943	-38.8	-46.8	28	23.5
350	30	7,851	-44.3		28	24.6
300	30	8,869	-49.8		27	27.0
250	30	10,052	-53.1		27	27.3
200	30	11,490	-53.0		28	26.1
175	30	12,352	-52.8		28	23.7
150	30	13,346	-53.0		28	24.0
125	30	14,518	-54.5		28	22.0
100	30	15,944	-55.7		28	18.1
80	30	17,363	-56.5		27	16.8
70	29	18,209	-57.0		27	14.9
60	29	19,184	-57.6		28	14.8
50	29	20,333	-58.1		28	14.6
40	26	21,737	-58.6		28	14.3
30	24	23,547	-58.8		29	15.0
25	23	24,695	-59.0		29	16.7
20	20	26,090	-58.7		29	18.9
15	19	27,900	-58.8		28	22.2
10	9	30,434	-58.1			

SPOKANE, WA 935 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	720	-1.6	-3.4	20	1.9
1000						
950						
900	31	1,023	.0	-2.7	22	5.3
850	31	1,481	-.8	-5.1	24	8.0
800	31	1,964	-2.4	-8.8	26	9.1
750	31	2,475	-4.9	-13.8	27	9.9
700	31	3,014	-7.7	-17.8	27	11.6
650	31	3,588	-10.5	-21.2	28	13.6
600	31	4,201	-13.7	-23.6	28	15.5
550	31	4,857	-17.7	-26.8	28	17.1
500	31	5,564	-22.4	-31.6	28	18.7
450	30	6,338	-27.7	-36.0	29	20.9
400	30	7,175	-33.5	-41.0	29	23.5
350	30	8,101	-40.4	-43.4	29	26.5
300	30	9,133	-47.5		29	29.4
250	30	10,316	-55.3		29	31.6
200	30	11,727	-57.9		29	31.1
175	30	12,573	-56.4		29	27.6
150	30	13,553	-55.8		29	23.3
125	30	14,709	-58.0		29	19.8
100	27	16,117	-59.8		29	15.8
80	25	17,513	-58.9		29	12.5
70	25	18,352	-58.3		30	9.5
60	25	19,322	-58.1		30	8.0
50	23	20,473	-57.0		30	7.3
40	21	21,889	-56.5		31	7.4
30	19	23,719	-55.7		31	7.9
25	16	24,882	-55.5		31	9.6
20	14	26,322	-55.4		32	8.6
15	11	28,191	-54.6		33	11.7
10	6	30,740	-58.4			

TAMPA BAY, FL 1020 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	8	11.1	9.4	06	1.3
1000	31	176	14.6	9.4	09	3.2
950	31	610	13.3	6.5	12	2.6
900	31	1,063	11.0	2.5	18	2.1
850	31	1,539	9.4	-1.5	23	2.3
800	31	2,040	7.9	-6.8	25	3.2
750	31	2,570	5.4	-9.3	25	4.8
700	31	3,132	3.1	-13.8	26	6.7
650	31	3,729	.0	-17.2	26	8.4
600	31	4,365	-3.8	-20.9	26	10.4
550	31	5,047	-8.2	-24.8	26	12.1
500	31	5,780	-13.3	-29.5	26	14.4
450	30	6,573	-19.0	-34.0	27	16.8
400	30	7,439	-25.6	-39.7	27	19.9
350	30	8,396	-32.6	-44.7	27	22.7
300	30	9,462	-40.5	-51.8	27	26.5
250	30	10,680	-49.4		27	29.9
200	30	12,114	-57.7		26	30.5
175	30	12,950	-61.1		26	30.4
150	30	13,902	-63.4		26	28.6
125	30	15,015	-66.3		27	24.5
100	29	16,353	-70.0		27	18.6
80	29	17,673	-72.1		26	12.5
70	28	18,463	-70.5		26	8.7
60	28	19,384	-67.3		27	4.9
50	27	20,493	-63.6		29	2.5
40	27	21,878	-59.2		03	2.8
30	26	23,698	-55.3		36	1.0
25	24	24,868	-52.7		31	2.0
20	21	26,317	-50.0		28	4.7
15	19	28,209	-46.8		27	9.5
10	14	30,911	-43.4		26	14.9

TOPEKA, KS 986 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	268	-1.0	-3.3	13	.5
1000						
950	31	577	.2	-3.9	24	3.1
900	31	1,012	1.0	-6.3	27	5.7
850	31	1,472	1.2	-9.3	27	7.1
800	31	1,959	-.1	-11.6	28	8.2
750	31	2,474	-2.0	-15.6	28	9.0
700	31	3,019	-4.6	-18.0	28	11.0
650	31	3,599	-8.1	-20.1	29	12.9
600	31	4,210	-11.5	-23.2	29	14.7
550	31	4,878	-15.6	-27.0	29	16.2
500	31	5,591	-20.1	-32.4	29	17.2
450	31	6,364	-25.6	-37.9	28	19.2
400	31	7,207	-31.8	-43.3	28	21.1
350	31	8,140	-38.6	-47.5	28	22.9
300	31	9,178	-46.5		29	24.9
250	31	10,368	-53.7		29	26.5
200	30	11,793	-57.0		29	23.2
175	30	12,637	-57.6		29	22.6
150	30	13,609	-58.2		29	21.9
125	30	14,752	-60.2		29	18.7
100	28	16,138	-62.2		29	14.4
80	27	17,517	-61.9		29	9.9
70	27	18,345	-61.0		28	7.4
60	26	19,300	-60.4		28	6.6
50	24	20,438	-59.5		31	2.7
40	23	21,834	-59.0		32	2.7
30	22	23,650	-56.9		33	3.6
25	20	24,805	-56.3		33	4.7
20	15	26,228	-55.4		31	5.8
15	13	28,075	-54.2		29	10.6
10	5	30,692	-52.0			

TRUK, CAROLINE IS. + 1010 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	2	28.1	24.1	06	3.2
1000	31	89	27.0	23.6	06	4.0
950	31	542	23.6	21.4	08	6.5
900	31	1,014	20.6	17.8	08	8.0
850	31	1,507	17.5	14.2	09	7.2
800	31	2,025	15.0	11.7	09	6.6
750	31	2,570	12.8	5.7	09	7.3
700	31	3,148	9.5	2.2	09	7.7
650	31	3,760	6.4	-2.1	09	7.9
600	31	4,413	2.8	-5.0	09	8.0
550	31	5,113	-.9	-9.8	10	7.9
500	31	5,869	-5.0	-13.2	10	8.1
450	31	6,690	-9.7	-20.2	09	7.6
400	31	7,591	-15.1	-26.2	09	6.9
350	31	8,590	-21.9	-33.3	08	5.0
300	31	9,703	-30.4	-42.4	08	1.9
250	31	10,972	-40.8	-51.5	20	.5
200	31	12,450	-53.3		29	1.3
175	31	13,297	-60.1		35	1.3
150	31	14,242	-67.6		36	1.8
125	31	15,319	-75.5		06	3.5
100	31	16,584	-83.1		09	10.2
80	31	17,831	-79.3		09	6.7
70	31	18,603	-71.6		28	1.7
60	31	19,523	-67.1		27	7.4
50	31	20,640	-61.7		28	10.6
40	29	22,034	-58.1		28	11.4
30	28	23,865	-54.3		27	9.0
25	28	25,041	-51.7		26	8.6
20	28	26,497	-49.3		26	7.8
15	25	28,386	-47.7		26	2.7
10	17	31,090	-42.8			
7						
5						

*** TUCSON, AZ** 927 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	789	6.6	-1.7	15	1.9
1000						
950						
900	31	1,036	11.0	-4.2	13	3.3
850	31	1,512	9.7	-6.5	15	2.4
800	31	2,013	7.0	-8.6	19	2.1
750	31	2,540	4.1	-12.9	22	2.5
700	31	3,098	1.3	-16.5	25	3.4
650	31	3,691	-2.0	-19.5	26	4.0
600	31	4,322	-6.2	-24.8	27	5.3
550	31	4,997	-10.8	-28.3	27	6.4
500	31	5,722	-16.1	-33.3	28	7.4
450	30	6,510	-22.0	-37.5	29	8.4
400	30	7,366	-28.1	-42.6	28	9.6
350	30	8,314	-35.1	-47.2	28	11.8
300	30	9,367	-43.6		27	14.2
250	30	10,569	-52.5		28	16.6
200	30	11,988	-58.9		27	18.6
175	30	12,822	-60.8		27	17.2
150	29	13,782	-62.0		27	15.3
125	29	14,905	-63.8		27	13.2
100	29	16,265	-66.1		27	11.3
80	29	17,615	-66.6		28	8.8
70	28	18,422	-65.8		28	7.0
60	28	19,360	-64.9		28	5.1
50	26	20,478	-62.2		31	2.2
40	26	21,866	-59.7		01	1.5
30	24	23,680	-55.8		02	1.5
25	23	24,846	-54.2		32	.9
20	23	26,284	-52.6		28	2.1
15	17	28,138	-51.1		29	4.3
10	9	30,775	-47.4			

*** VANDENBERG AFB, CA** 1009 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	100	7.9	2.4	02	1.0
1000	30	174	11.1	1.4	02	2.0
950	31	600	12.5	-2.0	01	3.4
900	31	1,053	11.8	-5.7	36	3.7
850	31	1,530	10.2	-7.9	36	4.3
800	31	2,032	7.6	-10.2	35	4.1
750	31	2,561	5.0	-13.3	34	5.0
700	31	3,120	1.7	-16.8	33	5.3
650	31	3,713	-1.5	-19.4	33	6.2
600	31	4,346	-5.6	-22.7	32	6.3
550	31	5,022	-10.2	-26.9	32	6.3
500	31	5,749	-15.5	-31.6	31	7.5
450	31	6,535	-21.7	-35.6	31	8.3
400	31	7,391	-28.5	-42.4	31	8.7
350	31	8,336	-35.8	-47.9	31	9.5
300	31	9,386	-44.2		30	9.6
250	31	10,585	-52.8		30	10.4
200	31	12,000	-60.2		30	10.5
175	31	12,828	-62.3		30	9.5
150	31	13,781	-62.2		29	9.2
125	31	14,905	-63.7		29	8.4
100	31	16,268	-65.4		30	7.0
80	31	17,625	-65.7		30	5.4
70	31	18,438	-64.7		31	4.2
60	31	19,384	-63.1		33	3.0
50	31	20,514	-60.6		01	2.5
40	31	21,911	-58.3		04	3.2
30	31	23,733	-55.6		05	4.5
25	31	24,899	-54.1		05	4.6
20	30	26,335	-52.2		05	4.6
15	29	28,204	-50.9		02	3.0
10	28	30,857	-48.5		32	6.6
7	23	33,222	-45.5		30	10.7
5	13	35,494	-42.9			

VICTORIA, TX 1017 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	33	8.4	6.4	35	.8
1000	31	168	11.5	6.8	18	.3
950	31	597	10.8	3.8	20	3.6
900	31	1,048	9.6	.8	22	3.8
850	31	1,522	8.7	-3.7	24	4.1
800	31	2,022	7.0	-6.0	25	4.8
750	31	2,551	4.8	-11.1	26	6.0
700	31	3,111	2.4	-13.8	27	7.9
650	31	3,706	-.9	-16.2	27	9.5
600	31	4,340	-4.7	-19.1	27	10.7
550	31	5,019	-9.1	-23.4	27	12.5
500	31	5,750	-14.1	-27.2	27	14.0
450	31	6,541	-19.8	-32.1	27	15.7
400	31	7,404	-26.3	-37.7	26	18.3
350	31	8,357	-33.7	-45.1	26	20.7
300	31	9,417	-42.1	-50.7	26	24.4
250	31	10,627	-51.0		27	27.7
200	31	12,051	-58.9		26	29.2
175	31	12,883	-61.9		26	27.1
150	31	13,831	-64.1		26	25.3
125	31	14,946	-65.7		26	21.5
100	28	16,299	-68.1		26	16.9
80	26	17,633	-69.5		27	11.4
70	26	18,431	-68.8		26	7.0
60	23	19,354	-66.3		26	5.4
50	23	20,467	-62.6		25	2.8
40	23	21,852	-59.6		25	1.2
30	20	23,664	-55.9		01	1.0
25	19	24,837	-53.4		29	1.6
20	18	26,285	-51.3		31	3.5
15	16	28,162	-48.6		27	7.6
10	7	30,888	-42.9			

*** WAKE IS., PACIFIC AREA** 1014 MB

Standard pressure surface mb	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C +	Resultant Wind Direction tens of deg	Resultant Wind Speed m p s
SFC	31	5	25.4	21.4	09	4.3
1000	31	130	24.9	20.7	09	5.6
950	31	579	21.2	18.7	09	7.2
900	31	1,047	17.9	14.5	10	7.0
850	31	1,534	15.1	8.5	10	6.3
800	31	2,047	13.8	2.9	10	5.5
750	31	2,590	12.2	-3.7	10	4.8
700	31	3,165	9.1	-6.9	12	3.7
650	31	3,776	6.0	-11.6	12	3.2
600	31	4,427	2.3	-14.0	11	2.2
550	31	5,125	-1.7	-18.7	16	.8
500	31	5,877	-6.3	-23.5	25	1.5
450	31	6,693	-11.6	-27.6	23	2.2
400	31	7,585	-17.6	-33.6	23	2.6
350	31	8,573	-24.9	-39.9	26	3.4
300	31	9,672	-33.3	-47.8	28	4.3
250	31	10,927	-43.3		29	6.3
200	31	12,391	-54.6		29	8.7
175	31	13,234	-60.9		29	8.3
150	30	14,182	-67.4		29	6.9
125	29	15,266	-74.6		31	6.1
100	28	16,542	-80.7		32	4.0
80	26	17,796	-81.5		07	1.3
70	25	18,554	-77.7		09	2.5
60	25	19,449	-72.2		08	2.5
50	25	20,541	-65.9		12	3.0
40	23	21,921	-59.4		18	.6
30	22	23,743	-54.3		27	1.3
25	22	24,917	-52.3		34	1.1
20	22	26,374	-48.5		03	1.5
15	17	28,259	-47.6		02	.9
10	14	30,940	-43.6		05	2.4

RAWINSONDE DATA

Average monthly values

WAL[illegible]OPS IS[illegible]AND, [illegible] NASA — [illegible] MB

Standard pressure surface (mb)	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed
SFC	31	[illegible]	[illegible]	[illegible]	31	[illegible]
1000	[illegible]	171	5.4	[illegible]	[illegible]	[illegible]
950	[illegible]	[illegible]	3.5	[illegible]	[illegible]	[illegible]
900	31	[illegible]	.4	-5.6	[illegible]	[illegible]
850	[illegible]	[illegible]	1.2	[illegible]	27	7.3
800	[illegible]	1,975	.0	[illegible]	26	[illegible]
750	[illegible]	[illegible]	[illegible]	[illegible]	27	13.3
700	31	3,037	-4.7	[illegible]	[illegible]	15.2
650	[illegible]	[illegible]	-7.3	[illegible]	[illegible]	[illegible]
600	[illegible]	[illegible]	-10.8	[illegible]	27	[illegible]
550	[illegible]	[illegible]	-15.0	[illegible]	[illegible]	[illegible]
500	[illegible]	[illegible]	-19.8	[illegible]	26	[illegible]
450	31	[illegible]	-25.4	[illegible]	[illegible]	[illegible]
400	[illegible]	7,231	[illegible]	[illegible]	[illegible]	[illegible]
350	[illegible]	8,164	-39.0	[illegible]	[illegible]	[illegible]
300	[illegible]	9,202	-46.1		[illegible]	[illegible]
250	[illegible]	10,397	-52.8		[illegible]	[illegible]
200	[illegible]	11,820	-56.9		27	[illegible]
175	[illegible]	[illegible]	-58.0		27	28.8
150	[illegible]	[illegible]	-58.0		27	[illegible]
125	[illegible]	[illegible]	-59.8		27	[illegible]
100	[illegible]	[illegible]	-62.1		27	[illegible]
80	[illegible]	[illegible]	-62.7		[illegible]	[illegible]
70	[illegible]	[illegible]	-62.0		[illegible]	[illegible]
60	[illegible]	19,323	-60.9		27	[illegible]
50	[illegible]	20,457	-59.6		27	[illegible]
40	[illegible]	21,858	-58.1		27	[illegible]
30	[illegible]	23,672	-56.8		27	[illegible]
25	[illegible]	24,831	-55.7		27	[illegible]
20	[illegible]	[illegible]	-54.7		27	[illegible]
15	[illegible]	28,120	-52.9		27	[illegible]
10	[illegible]	30,745	-48.8			

WASHINGT[illegible] INT. AP — [illegible]

Standard pressure surface (mb)	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed
SFC	31	[illegible]	[illegible]	-4.0	[illegible]	[illegible]
1000	[illegible]	181	[illegible]	-4.5	[illegible]	[illegible]
950	[illegible]	586	.7	-5.2	[illegible]	[illegible]
900	[illegible]	1,019	-.6	-6.6	[illegible]	[illegible]
850	[illegible]	[illegible]	-1.0	-8.6	[illegible]	[illegible]
800	[illegible]	1,960	-1.7	[illegible]	[illegible]	[illegible]
750	[illegible]	2,472	-3.7	[illegible]	[illegible]	[illegible]
700	[illegible]	3,015	-6.1	[illegible]	[illegible]	[illegible]
650	[illegible]	[illegible]	-8.6	[illegible]	[illegible]	[illegible]
600	[illegible]	4,209	-12.2	[illegible]	[illegible]	19.1
550	[illegible]	[illegible]	-16.3	[illegible]	[illegible]	20.7
500	[illegible]	5,580	-20.8	[illegible]	[illegible]	[illegible]
450	[illegible]	[illegible]	-26.3	[illegible]	[illegible]	[illegible]
400	[illegible]	[illegible]	-32.5	-42.9	[illegible]	[illegible]
350	[illegible]	8,117	-39.6	-44.8	[illegible]	29.5
300	[illegible]	9,151	-46.9		[illegible]	31.1
250	[illegible]	10,343	-52.9		[illegible]	[illegible]
200	[illegible]	11,770	[illegible]		[illegible]	[illegible]
175	[illegible]	12,617	-56.8		[illegible]	[illegible]
150	[illegible]	13,592	[illegible]		[illegible]	28.4
125	[illegible]	14,739	-59.4		[illegible]	25.9
100	[illegible]	[illegible]	-61.2		[illegible]	21.0
80	[illegible]	17,509	-61.4		[illegible]	16.9
70	28	18,338	-61.2		[illegible]	13.1
60	[illegible]	19,294	-60.8		[illegible]	10.9
50	26	20,430	-59.6		[illegible]	8.4
40	26	21,831	-58.7		[illegible]	7.6
30	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
25	24	24,798	-56.5		[illegible]	[illegible]
20	23	26,217	-55.7		[illegible]	[illegible]
15	[illegible]	[illegible]	-54.2		[illegible]	[illegible]
10	[illegible]	30,681	-50.3			

[illegible] — [illegible] MB

Standard pressure surface (mb)	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed
SFC	31	44	[illegible]	[illegible]	[illegible]	[illegible]
1000	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
950	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
900	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
850	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
800	[illegible]	2,022	[illegible]	[illegible]	[illegible]	[illegible]
750	[illegible]	2,547	[illegible]	[illegible]	[illegible]	8.8
700	[illegible]	3,103	[illegible]	[illegible]	[illegible]	[illegible]
650	[illegible]	[illegible]	-2.3	[illegible]	[illegible]	[illegible]
600	[illegible]	4,326	-5.9	[illegible]	[illegible]	[illegible]
550	[illegible]	5,002	-10.2	[illegible]	[illegible]	[illegible]
500	[illegible]	5,730	-15.2	[illegible]	[illegible]	[illegible]
450	[illegible]	6,517	-20.8	[illegible]	[illegible]	[illegible]
400	[illegible]	[illegible]	-27.1	[illegible]	[illegible]	[illegible]
350	[illegible]	[illegible]	-34.4	[illegible]	[illegible]	[illegible]
300	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
250	[illegible]	10,596	[illegible]		[illegible]	[illegible]
200	[illegible]	12,026	[illegible]		[illegible]	33.9
175	[illegible]	12,864	[illegible]		[illegible]	33.0
150	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
100	[illegible]	16,300	[illegible]		[illegible]	[illegible]
80	[illegible]	17,641	[illegible]		[illegible]	[illegible]
70	[illegible]	18,444	[illegible]		[illegible]	[illegible]
60	[illegible]	19,377	[illegible]		[illegible]	[illegible]
50	[illegible]	20,500	[illegible]		[illegible]	[illegible]
40	[illegible]	21,896	-58.5		[illegible]	[illegible]
30	[illegible]	23,719	[illegible]		[illegible]	[illegible]
25	[illegible]	24,888	[illegible]		[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
15	[illegible]	28,219	[illegible]		[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]			

[illegible] — [illegible] MB

Standard pressure surface (mb)	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed
SFC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
850	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
800	[illegible]	2,026	[illegible]	-6.9	[illegible]	[illegible]
750	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
700	[illegible]	[illegible]	[illegible]	-12.3	[illegible]	[illegible]
650	[illegible]	3,676	[illegible]	-16.2	[illegible]	[illegible]
600	[illegible]	4,298	-10.1	-19.7	[illegible]	[illegible]
550	[illegible]	4,964	-14.1	[illegible]	[illegible]	[illegible]
500	[illegible]	5,681	-18.7	-28.7	[illegible]	[illegible]
450	[illegible]	6,458	-24.4	-33.8	[illegible]	[illegible]
400	[illegible]	7,305	-31.0	[illegible]	[illegible]	[illegible]
350	[illegible]	8,242	-38.0	-43.6	[illegible]	[illegible]
300	[illegible]	9,281	-46.0		[illegible]	17.9
250	[illegible]	10,474	-53.7		[illegible]	[illegible]
200	[illegible]	11,888	-59.1		[illegible]	[illegible]
175	[illegible]	12,724	[illegible]		[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
125	[illegible]	14,827	-60.9		[illegible]	[illegible]
100	[illegible]	16,205	-63.1		[illegible]	[illegible]
80	[illegible]	17,579	[illegible]		[illegible]	[illegible]
70	[illegible]	18,407	-61.5		[illegible]	[illegible]
60	[illegible]	19,366	-60.0		[illegible]	[illegible]
50	[illegible]	20,509	-58.5		[illegible]	[illegible]
40	[illegible]	21,919	-57.4		[illegible]	[illegible]
30	[illegible]	[illegible]	-55.4		[illegible]	[illegible]
25	[illegible]	24,915	-54.5		[illegible]	[illegible]
20	[illegible]	26,348	-54.1		[illegible]	[illegible]
15	16	28,207	[illegible]		[illegible]	8.4

[illegible] — [illegible] MB

Standard pressure surface (mb)	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed
SFC	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
850	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
800	[illegible]	2,025	[illegible]	[illegible]	[illegible]	[illegible]
750	[illegible]	[illegible]	[illegible]	-11.7	[illegible]	[illegible]
700	[illegible]	[illegible]	[illegible]	-15.2	[illegible]	[illegible]
650	[illegible]	[illegible]	[illegible]	-20.1	[illegible]	[illegible]
600	[illegible]	4,310	[illegible]	[illegible]	[illegible]	[illegible]
550	[illegible]	4,979	[illegible]	[illegible]	[illegible]	[illegible]
500	[illegible]	[illegible]	[illegible]	[illegible]	30	7.9
450	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
400	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
350	[illegible]	8,262	[illegible]	[illegible]	[illegible]	14.6
300	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
250	[illegible]	10,504	[illegible]		[illegible]	[illegible]
200	[illegible]	11,931	[illegible]		28	15.7
175	[illegible]	12,766	[illegible]		[illegible]	[illegible]
150	[illegible]	13,726	[illegible]		29	[illegible]
125	[illegible]	14,858	[illegible]		[illegible]	10.6
100	[illegible]	16,221	[illegible]		[illegible]	[illegible]
80	[illegible]	17,578	[illegible]		28	7.1
70	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
30	[illegible]	23,678	[illegible]		[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
15	[illegible]	28,134	[illegible]		[illegible]	[illegible]

YAK[illegible]TAT, AK — [illegible]002 MB

Standard pressure surface (mb)	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed
SFC	31	12	-4.1	-7.5	10	2.8
1000	[illegible]	[illegible]	-1.9	-9.4	10	2.8
950	31	[illegible]	-2.9	-9.1	12	5.4
900	31	864	-5.3	-10.3	14	4.9
850	31	1,311	-8.0	-11.8	17	4.5
800	31	1,780	-10.8	-14.9	[illegible]	4.5
750	31	2,273	-14.1	-19.6	[illegible]	4.3
700	31	[illegible]	[illegible]	-24.3	21	5.4
650	31	3,343	-21.4	-27.5	21	6.4
600	31	[illegible]	-25.2	-31.6	22	7.4
550	31	4,556	-29.3	-36.6	24	[illegible]
500	31	5,231	-33.5	-39.1	25	10.7
450	31	5,964	-38.1	-38.9	24	12.7
400	31	6,767	-42.9	-40.9	24	14.6
350	31	7,661	-47.3		25	15.8
300	31	8,669	-51.1		25	17.5
250	31	9,852	-51.7		26	19.4
200	31	11,305	-49.9		26	17.4
175	31	12,178	-50.4		26	[illegible]
150	31	13,181	-51.4		26	18.2
125	31	[illegible]	-52.0		26	18.3
100	31	15,809	-52.1		27	18.3
80	31	17,252	-52.7		27	18.3
70	31	18,112	-53.6		27	[illegible]
60	31	19,103	-54.1		28	[illegible]
50	31	20,272	-54.2		28	21.3
40	30	[illegible]	-55.2		28	[illegible]
30	27	23,548	-54.9		28	25.4
25	[illegible]	24,706	-56.0		28	26.9
20	[illegible]	26,118	-57.4		29	29.1
15	[illegible]	27,928	-58.8		29	[illegible]
10	[illegible]	30,470	-61.3			

YAP, CAROLINE IS. — 1008 MB

Standard pressure surface (mb)	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed
SFC	31	14	27.7	24.2	[illegible]	4.2
1000	31	81	26.7	23.6	[illegible]	5.4
950	31	534	23.5	21.3	[illegible]	[illegible]
900	31	1,006	20.6	17.6	09	[illegible]
850	31	1,499	17.6	13.3	10	[illegible]
800	31	2,017	15.4	[illegible]	[illegible]	8.3
750	31	2,563	12.8	3.8	10	[illegible]
700	31	[illegible]	9.7	.9	10	[illegible]
650	31	3,753	6.6	-3.7	10	8.4
600	31	4,406	2.8	-6.2	[illegible]	9.2
550	31	5,106	-1.1	[illegible]	09	9.7
500	31	5,860	-5.5	-15.7	09	[illegible]
450	31	6,680	-9.9	-22.5	09	[illegible]
400	31	[illegible]	-15.4	-28.3	09	7.3
350	31	8,577	-22.5	-35.3	09	[illegible]
300	31	9,687	-30.8	[illegible]	[illegible]	5.5
250	31	10,954	-41.1	-51.0	09	[illegible]
200	31	12,430	-53.6		08	[illegible]
175	31	13,275	-60.6		07	2.3
150	31	14,217	-68.5		06	3.4
125	31	15,289	-76.5		07	[illegible]
100	31	16,548	-83.7		[illegible]	12.3
80	31	17,796	-78.5		10	[illegible]
70	31	18,569	-72.3		[illegible]	.9
60	31	19,491	-66.6		[illegible]	[illegible]
50	31	20,606	-62.1		28	[illegible]
40	31	22,002	[illegible]		27	[illegible]
30	[illegible]	[illegible]	[illegible]		26	6.5
25	[illegible]	25,007	-51.3		[illegible]	[illegible]
20	[illegible]	26,463	-48.6		25	[illegible]
15	[illegible]	28,374	-45.7		16	.9
10	[illegible]	31,099	-40.9			

Y[illegible]CCA F[illegible]AT, [illegible] — [illegible] MB

Standard pressure surface (mb)	No. of observations	Dynamic height meters	Temperature °C	Dew Point °C	Resultant Wind Direction tens of deg	Resultant Wind Speed
SFC	31	[illegible]	[illegible]	-8.1	[illegible]	[illegible]
850	31	[illegible]	5.9	[illegible]	[illegible]	[illegible]
800	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
750	31	2,553	[illegible]	[illegible]	35	1.8
700	31	3,107	[illegible]	[illegible]	33	2.5
650	31	3,696	[illegible]	[illegible]	32	[illegible]
600	31	4,322	[illegible]	[illegible]	[illegible]	4.4
550	31	4,991	-12.8	[illegible]	32	5.9
500	31	5,712	-17.6	[illegible]	[illegible]	8.6
450	31	6,492	-23.2	[illegible]	32	9.9
400	31	7,343	-29.9	[illegible]	31	11.3
350	31	8,284	-36.9	[illegible]	31	12.8
300	31	[illegible]	-45.0		31	14.9
250	31	10,525	-53.1		31	15.1
200	31	11,943	-58.9		30	14.6
175	31	12,776	-61.1		[illegible]	14.2
150	[illegible]	13,736	-60.8		[illegible]	11.5
125	[illegible]	14,866	-62.3		30	10.6
100	[illegible]	16,235	-64.7		[illegible]	8.4
80	[illegible]	17,597	[illegible]		30	6.3
70	[illegible]	18,415	[illegible]		31	4.3
60	[illegible]	19,363	[illegible]		31	3.5
50	[illegible]	[illegible]	[illegible]		36	[illegible]
40	[illegible]	21,894	[illegible]		03	2.8
30	[illegible]	23,713	-55.9		04	[illegible]
25	[illegible]	24,876	-54.9		03	[illegible]
20	[illegible]	26,308	-53.5		02	3.5
15	[illegible]	28,181	[illegible]			

SOLAR RADIATION INTENSITIES

Tabulated in langleys per minute on a surface normal to the direction of the sun.

DECEMBER 1975

Sun's zenith distance

ALBUQUERQUE, NM

Date	A.M. 78.7°	A.M. 75.7°	A.M. 70.7°	A.M. 60.0°	*	P.M. 60.0°	P.M. 70.7°	P.M. 75.7°	P.M. 78.7°
Air mass	1.19	3.35	2.51	1.67	*	1.67	2.51	3.35	1.19
1-----	----	----	----	----	----	(1.20)	(.85)	----	(.62)
2-----	.99	1.09	1.22	1.39	1.41	1.39	1.21	1.10	.99
3-----	.99	----	1.19	1.38	----	1.37	----	----	.97
4-----	.93	1.03	1.18	1.32	1.35	1.34	1.18	1.03	.89
5-----	.98	1.09	1.17	1.34	1.38	1.35	1.18	1.06	.97
6-----	.87	.98	1.13	1.29	1.31	1.29	1.12	.98	.84
7-----	.93	1.10	1.21	----	----	----	----	1.06	.95
9-----	1.00	1.09	1.21	1.34	1.33	1.32	1.17	1.03	.91
10----	1.00	1.10	1.17	1.35	1.33	1.35	1.19	1.05	.95
11----	.95	----	1.20	----	----	----	1.18	1.04	----
12----	.93	1.02	1.15	1.31	1.33	1.32	----	----	----
13----	.98	1.00	----	1.28	----	----	----	----	.82
15----	1.02	1.12	1.22	1.37	1.40	1.40	1.22	1.08	1.01
16----	1.00	1.12	1.22	----	----	1.37	----	----	----
17----	1.01	1.14	1.22	1.36	1.39	1.37	1.23	1.12	1.00
18----	.98	1.08	1.22	1.40	1.37	1.34	1.16	1.01	.86
19----	.97	1.07	1.22	1.36	1.38	1.35	1.20	1.06	.98
22----	----	----	(1.04)	----	(1.28)	(1.29)	1.12	.97	.88
25----	.91	1.01	(1.13)	----	----	----	----	1.00	.93
26----	----	----	----	----	1.32	1.28	----	1.06	----
28----	.94	1.05	1.17	----	----	----	----	----	----
29----	.98	1.08	1.22	1.35	1.36	1.31	1.16	(1.07)	(.98)
30----	.98	1.08	1.22	1.36	1.39	1.36	1.23	1.13	1.02
Averages	.97	1.07	1.20	1.35	1.36	1.34	1.18	1.05	.94

MADISON, WI

Date	A.M. 78.7°	A.M. 75.7°	A.M. 70.7°	A.M. 60.0°	*	P.M. 60.0°	P.M. 70.7°	P.M. 75.7°	P.M. 78.7°
Air mass	4.69	3.75	2.81	1.88	*	1.88	2.81	3.75	4.69
4-----	I .62	I .72	I .86	----	I 1.00	----	----	----	----
6-----	S .95	S 1.05	S 1.17	----	S 1.26	----	S 1.19	----	----
17----	----	----	----	----	----	----	S 1.11	S .98	S .88
18----	S .92	S 1.00	S 1.17	----	----	----	S 1.18	----	----
30----	----	----	----	----	M 1.01	----	M 1.04	M .83	M .70
Averages	.83	.92	1.06	----	1.09	----	1.13	.91	.79

OMAHA, NE

Date	A.M. 78.7°	A.M. 75.7°	A.M. 70.7°	A.M. 60.0°	*	P.M. 60.0°	P.M. 70.7°	P.M. 75.7°	P.M. 78.7°
Air mass	4.78	3.82	2.87	1.91	*	1.91	2.87	3.82	4.78
2-----	.77	.91	----	----	----	----	----	----	----
3-----	----	----	HM .90	----	1.00	----	----	----	----
4-----	----	HM .91	HM1.02	----	1.22	----	----	----	----
6-----	.97	1.05	1.11	----	----	----	----	----	----
8-----	.75	.93	.99	----	----	----	----	----	----
9-----	----	----	----	----	----	----	.95	HM .80	HM .72
10----	----	.91	1.01	----	1.21	----	----	1.02	----
15----	.98	1.09	1.20	----	1.26	----	1.21	1.06	.92
18----	----	----	----	----	1.29	----	1.12	1.05	----
19----	.99	1.08	1.18	----	1.50	----	----	----	----
20----	----	----	----	----	----	----	----	----	.90
21----	.85	.96	1.10	----	----	----	----	----	----
30----	----	----	----	----	----	----	1.06	.97	.89
Averages	.89	.98	1.07	----	1.25	----	1.08	.98	.86

BLUE HILL OBSERVATORY, MA

Date	A.M. 78.7°	A.M. 75.7°	A.M. 70.7°	A.M. 60.0°	*	P.M. 60.0°	P.M. 70.7°	P.M. 75.7°	P.M. 78.7°
Air mass	4.89	3.92	2.94	1.96	*	1.96	2.94	3.92	4.89

NO DATA RECEIVED

MAUNA LOA OBSERVATORY, HA

Date	A.M. 78.7°	A.M. 75.7°	A.M. 70.7°	A.M. 60.0°	*	P.M. 60.0°	P.M. 70.7°	P.M. 75.7°	P.M. 78.7°
Air mass	3.36	2.69	2.01	1.34	*	1.34	2.01	2.69	3.36
1-----	1.22	1.30	1.41	1.49	----	----	----	----	----
2-----	1.17	1.26	----	----	----	----	----	----	----
6-----	1.13	1.22	1.33	----	----	----	----	----	----
7-----	----	1.24	1.34	----	----	----	----	----	----
8-----	.91	1.09	1.26	1.45	1.59	1.50	1.41	1.34	1.28
9-----	1.27	1.36	1.46	1.59	1.67	1.62	1.44	1.36	1.26
10----	1.30	1.38	1.48	1.60	1.69	1.59	1.47	1.37	1.29
11----	1.20	1.30	1.41	1.55	----	----	----	----	----
15----	----	----	----	----	1.56	----	----	----	----
16----	----	----	1.35	----	1.57	----	----	----	----
17----	1.20	1.29	1.40	1.52	1.60	1.51	1.39	1.29	1.22
18----	1.27	1.34	1.44	1.55	1.65	1.51	1.40	1.32	1.23
19----	1.26	1.34	1.43	1.53	1.61	1.51	1.38	1.28	1.20
20----	1.24	1.32	1.41	1.53	1.63	1.54	1.42	1.33	----
21----	1.32	1.39	1.48	1.58	1.66	----	----	1.35	1.26
22----	1.33	1.40	1.48	1.58	1.63	----	----	1.23	----
23----	1.31	1.38	1.47	1.58	----	----	----	----	----
24----	1.27	1.35	1.44	1.55	----	----	----	----	----
25----	1.24	1.33	1.43	1.54	1.64	1.55	1.43	1.32	1.25
26----	1.25	1.33	1.43	1.54	1.63	1.54	1.41	1.32	1.23
27----	1.24	1.31	1.41	1.53	----	----	1.39	1.30	1.22
28----	1.34	1.39	1.46	1.55	1.61	1.46	1.27	1.14	1.03
29----	1.32	1.38	1.44	1.54	1.60	----	----	----	----
Averages	1.24	1.32	1.42	1.54	1.62	1.53	1.40	1.30	1.22

TUCSON, AZ

Date	A.M. 78.7°	A.M. 75.7°	A.M. 70.7°	A.M. 60.0°	*	P.M. 60.0°	P.M. 70.7°	P.M. 75.7°	P.M. 78.7°
Air mass	4.64	3.71	2.78	1.86	*	1.86	2.78	3.71	4.6
1-----	1.00	1.10	1.20	1.37	1.44	1.39	1.23	1.10	1.0
2-----	1.02	1.12	1.25	1.39	1.43	1.36	1.24	1.05	.9
3-----	.97	1.09	1.20	1.36	1.41	1.37	1.20	1.01	.9
4-----	.96	1.06	1.18	1.31	1.39	1.31	1.18	1.07	.9
5-----	.96	1.06	1.22	1.37	1.42	1.34	1.22	1.09	.
6-----	1.03	1.11	1.23	1.38	1.43	1.37	1.21	1.09	.
7-----	1.01	1.12	1.24	1.38	1.43	1.36	1.22	1.09	.
8-----	1.02	1.12	1.26	1.32	1.43	1.37	1.22	1.07	.
9-----	1.02	1.12	1.24	1.39	1.41	1.39	1.19	1.06	.
10----	.99	1.11	1.20	1.37	1.36	1.30	1.15	1.05	.
11----	1.02	1.10	1.22	1.34	1.38	1.34	1.22	1.10	.
12----	.95	1.07	1.19	1.36	1.37	----	----	----	--
13----	----	----	----	1.34	----	1.34	1.17	1.06	.
14----	----	----	----	----	----	----	1.16	1.07	.
15----	1.07	1.17	1.29	1.43	1.46	----	----	----	--
16----	----	----	----	----	----	----	----	.95	--
17----	.92	.99	1.13	1.25	1.34	1.32	1.15	1.00	
18----	----	----	----	----	1.32	1.28	1.08	.94	
19----	.93	1.02	1.16	1.31	1.37	1.32	1.15	.99	
22----	----	----	----	----	----	1.23	----	----	-
24----	----	----	----	----	1.31	1.26	1.03	.94	
25----	.88	.99	1.13	1.31	1.34	1.31	1.07	.97	
26----	----	----	1.19	1.37	1.41	1.36	1.17	----	
27----	----	----	----	1.33	1.33	----	----	----	
28----	----	----	----	----	1.39	1.39	1.27	1.12	
29----	1.02	1.11	1.26	1.41	1.39	1.39	1.25	1.13	
30----	.96	1.07	1.21	1.36	1.40	1.37	1.23	1.10	
31----	.98	1.06	1.18	----	----	----	----	----	
Averages	.98	1.09	1.21	1.36	1.39	1.34	1.18	1.05	

SOLAR RADIATION TOTALS

Daily totals and monthly averages of solar radiation (direct and diffuse) received on a horizontal surface, tabulated in langleys.

Station	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Avg
ALBUQUERQUE NM	214	288	279	280	281	272	277	---	268	270	233	261	182	95	281	271	274	271	268	199	[illegible]	252	95	178	259	238	175	126	277	[illegible]	[illegible]	[illegible]
BISMARCK ND	153	85	151	103	147	144	69	93	99	57	59	37	114	133	147	132	173	105	[illegible]	53	164	169	156	144	42	62	89	127	141	99	27	11[illegible]
CARIBOU ME	26	117	[illegible]	148	130	34	139	167	84	13	71	167	147	21	32	85	---	28	136	148	159	52	102	147	114	38	53	135	136	92	55	95
EL CENTRO CA	320	315	316	297	274	306	315	315	312	285	280	226	292	317	319	322	305	301	297	153	275	271	294	304	302	305	212	294	310	298	78	284
EL PASO TX	333	328	316	331	337	318	325	317	31[illegible]	312	311*	318	286	323	326	316	304	286	304	268	7[illegible]	267	63	163	310	312	279	224	31[illegible]	323	313	287
ELY NV	188	252	248	246	159	209	294	226	285	166	233	63	119	257	248	248	252	259	[illegible]	254	236	[illegible]	172	[illegible]	276	156	146	246	234	[illegible]	175	2[illegible]
FLAMING GORGE UT	282	---	---	---	---	238	240	270	250	---	209	---	197	230	263	---	284	---	---	279	27[illegible]	2[illegible]1	2[illegible]	---	191	271	258	242	---	---	---	---
FRESNO CA	242	240	231	223	208	203	168	174	160	115	62	78	126	232	235	246	220	20[illegible]	[illegible]	205	23[illegible]	[illegible]	[illegible]	24	[illegible]	188	16[illegible]	18[illegible]	[illegible]	[illegible]	[illegible]	194
GENEVA NY	76	64	125	111	165	4	201	85	19	31	164	56	38	53	14	102	34	16	[illegible]	21	[illegible]	93	[illegible]	14[illegible]	[illegible]	44	28	152	141	18	[illegible]	[illegible]
JOHNSTON ISLAND PAC	387	436	451	442	423	4[illegible]7	453	371	402	234	422	197	362	382	397	409	[illegible]	457	[illegible]	365	---	462	425	462	465	418	457	465	[illegible]	[illegible]	449	[illegible]
LAS VEGAS NV	217	247	254	245	236	249	255	256	254	214	242	244	203	268	264	268	259	262	235	154	248	238	266	267	281	279	246	[illegible]	304	[illegible]	[illegible]	[illegible]
MADISON WI	70	136	80	167	59	184	78	52	60	65	51	73	16	89	34	89	172	175	54	77	154	[illegible]	58	16	[illegible]	[illegible]	126	59	[illegible]	[illegible]	[illegible]	[illegible]
MIAMI FL	334	---	331	370	353	288	362	257	304	361	271	225	334	---	313	343	343	328	342	251*	[illegible]*	[illegible]*	--	31	285	286	222	213	161	---	---	[illegible]
NASHVILLE TN	276	256	254	262	249	47	39	76	26	254	251	161	171	114	32	141	114	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	251	174	15	[illegible]	61	168	[illegible]	[illegible]	[illegible]	14[illegible]
OAK RIDGE TN	201	271	242	242	229	98	54	113	27	148	242	172	203	162	42	136	[illegible]	[illegible]	[illegible]	[illegible]	12[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	51	173	[illegible]	46	[illegible]	[illegible]
PAGE AZ	201	263	251	[illegible]	[illegible]	277	276	249	275	265	242	134	136	236	281	[illegible]	280	279	[illegible]	244	[illegible]	64	[illegible]	25[illegible]	[illegible]	[illegible]	[illegible]	247	[illegible]	[illegible]	[illegible]	[illegible]
PHOENIX AZ	[illegible]	277	288	[illegible]	279	274	280	271	278	276	268	212	246	288	[illegible]*	229	254	269	271	65	[illegible]	245	[illegible]	27[illegible]	273	263	194	277	[illegible]	[illegible]	111	[illegible]
SEATTLE TACOMA WA	[illegible]	[illegible]	15	141	156	50	27	88	35	77	83	63	61	24	28	79	131	147	66	[illegible]	124	[illegible]	[illegible]	[illegible]	16	[illegible]	51	[illegible]	14	[illegible]	154	[illegible]
STERLING VA	[illegible]	21[illegible]	[illegible]1	[illegible]7	[illegible]	15[illegible]	179	44	18	151	[illegible]5	95	57	57	96	179	106	194	[illegible]	190	71	177	[illegible]7	2[illegible]	107	[illegible]	[illegible]	14[illegible]	98	[illegible]	12	1[illegible]
SWAN ISLAND W I	[illegible]	36[illegible]	388	---	[illegible]	---	278	---	380	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	--
TALLAHASSEE FL	[illegible]1	-	331	326	[illegible]	264	234	[illegible]2	222	326	[illegible]	314	288	330	[illegible]	191	98	297	[illegible]	87	[illegible]	215	341	321	133	272	296	314	71	[illegible]	237	[illegible]

NET RADIATION

Net radiation in langleys per day (8 a.m. to 8 a.m.) at Salem, Illinois [illegible]

Date.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Avg.
Langleys. . .	-105	- 81	-123	- 81	-160	-115	- 83	- 67	- 85	- 50	- 29	- 51	- 24	- 4	- 29	4	10	- 12	- 12	- 16	- [illegible]	- 13	31	- 57	- 10	- 81	- 11	- [illegible]	- 21	50	12	- [illegible]

SOLAR ULTRA-VIOLET RADIATION DATA

Daily totals and monthly average (< 3900 Å) at Ames, Iowa

Date. . . .	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Avg.
Langleys. . .																																

NO DATA RECEIVED

TOTAL OZONE DATA

These provisional ozone data are obtained from measurements made with a Dobson ozone spectrophotometer, and are applicable approximately to local apparent noon. The data are presented in the code (s [illegible]) defined in the August 1962 WMO circular entitled 'PUBLICATION OF DATA FOR METEOROLOGICAL RESEARCH, WORLD OZONE DATA.

Units Milli-atmo-cms

Station	Day of month																															Mean O3
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	

NO DATA RECEIVED

STORM SUMMARY CORRECTIONS

DATE	TABLE	STATE	CORRECTION
MARCH 1975	STORM SUMMARY	OKLAHOMA	TORNADOES: Injuries - 2
MARCH 1975	STORM SUMMARY	VIRGINIA	TORNADOES: Number - 1; ALL OTHERS: [illegible] - [illegible] Injuries - 3; Property - ?; Crops - 0
APRIL 1975	STORM SUMMARY	OKLAHOMA	TORNADOES: Number - 1; Days - 1; Injuries - 3
MAY 1975	STORM SUMMARY	MARYLAND & DC	TORNADOES: Number - 1; Days - 1; Damage - 4; WINDSTORMS: Crops - 3; ALL OTHERS: Property - 3; Crops - 3
MAY 1975	STORM SUMMARY	WISCONSIN	WINDSTORMS: Injuries- 12; Property - 6; Crops -

REFERENCE NOTES

OBSERVED EXTREMES OF TEMPERATURE AND PRECIPITATION -- BY STATES: Dates in the table apply to the period 24 hours prior to time of observation. In some cases the actual occurrence is on the calendar date preceding that shown. (See individual Climatological Data for times of observations).

+	And also on an earlier date or dates.
D	Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch of water equivalent to every 10 inches of snowfall.

CLIMATOLOGICAL DATA - METRIC UNITS: Data from airport unless otherwise specified.

Precipitation data in column headed "Greatest in 24 hours" are computed on a 24-hour basis without regard to calendar day - data may include precipitation with a measurable amount from the last day of the previous month or the first day of the following month.

Wind directions under resultant direction are in tens of degrees.

Value entered in column "Fastest Mile" is the highest observed 1-minute wind speed when the direction is in tens of degrees. These stations are not equipped with a recording anemometer from which "Fastest Mile data can be evaluated.

B	Number of days maximum 21.1°C. or above for Alaskan Stations.
Y	Peak Gust.
+	And also on an earlier date or dates.
U	Indicates Urban site.
R	Indicates Rural site.
Ø	Station pressures apply to elevations shown in the "Elevations" table of the annual issue of this publication.

Conversion formulae to English Units are as follows:

1 foot = 0.3048 meters
°F. = $\frac{9}{5}$ x °C + 32
1 inch = 25.4 millimeters
1 mile per hour = 0.447 meters per second

HEATING DEGREE DAYS: Data from airport unless otherwise specified.

U	Indicates Urban site.
R	Indicates Rural site.

COOLING DEGREE DAYS: Data from airport unless otherwise specified.

U	Indicates Urban site.
R	Indicates Rural site.

STORM SUMMARY:

°	Includes crop damage.
C	Crop damage.
*	No occurrence of storms or unusual weather phenomena reported.
@	Includes heavy sleet storm.
#	Freezing drizzle and freezing rain, commonly known as glaze.
Ø	For breakdown of "All Others," and for detailed listing of other storms, see the Environmental Data Service, NOAA, monthly publication STORM DATA.
‡	No Storm Data Report received for this State.
·	Report Incomplete.
†	Storm damages are placed in categories varying from 1 to 9 as follows:

1	Less than $50
2	$50 to $500
3	$500 to $5,000
4	$5,000 to $50,000
5	$50,000 to $500,000
6	$500,000 to $5 Million
7	$5 Million to $50 Million
8	$50 Million to $500 Million
9	$500 Million to $5 Billion.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS:

1/	Flooding continued at the end of the month.
NA	Not available.

FLOOD STAGE DATA:

#	Highest Stage Observed
1/	Continued at end of month
____	Highest Stage of Record
E	Estimated
P	Provisional (Flood Stage)
U	Unknown

RAWINSONDE DATA (Average Monthly Values):

All observations scheduled at 1200, G.C.T. Pressures shown under station names are the average monthly station pressures for the month of record, corrected to the height of the floors of the instrument shelters used for rawinsonde purposes. "Number of observations" refers to those of dynamic height only. Although the number of temperature observations at any given pressure surface is usually the same as for height, it is possible for temperature to be missing for one or more pressure surfaces of some observations. Dew Point averages are limited to those observations with temperatures warmer than -40°C. Observations of wind speed and direction are sometimes lost due to limiting angles, i.e., elevation angles less than 6° above the horizon, or any obstruction above the horizon. The temperature and wind values are based on 15 or more observations at the surface or 5 observations at a standard pressure level for temperature and 10 for wind. Dew Point data are not published for standard pressure surfaces for which less than 5 observations are available. Dew Point data are computed and expressed on the basis of vapor pressure over water. Unless otherwise indicated, they are obtained from carbon hygristors. These average values for standard pressure surfaces were obtained by rawinsondes; dynamic height (geopotential) in units of .98 dynamic meter, temperature and dew point in degrees Celsius, and resultant winds in tens of degrees and meters per second.

*	Rawinsondes at this station were equipped with hypsometers to permit more accurate evaluations of pressure, and consequently height, at pressures lower than 50 mb. These rawinsondes were carried aloft by special high altitude balloons, in an effort to consistently reach higher altitudes.
+	Observations for these stations are scheduled at 0000 G.C.T.
†	Dew Point temperatures are based on a minimum of 5 observations. Therefore, due to the lesser number of Dew Point observations at the higher levels comparison with dry-bulb temperatures should be made with care. Dew Point temperatures replaced Relative Humidity January 1967.

REFERENCE NOTES

SOLAR RADIATION INTENSITIES: Langley is the unit used to denote one gram calorie per square centimeter. An explanation of the formula used in computing the air mass values for each station appears in the February 1957 issue, Vol. 8, No. 2, page 63, of this publication.

()	Clouds Present	DM	Moderate Dust	HM	Moderate Haze	KS	Slight Smoke
*	Values corresponding to true solar noon	DS	Slight Dust	HS	Slight Haze	M	Moderate Haze-indeterminable
BD	Blowing Dust	F	Fog	I	[illegible]		
BN	Blowing Sand	GF	Ground Fog	K	Smoke	N	Sand
D	Dust	H	Haze	KI	Intense Smoke	S	Slight Haze-indeterminable
DI	Intense Dust	HI	Intense Haze	KM	Moderate Smoke		

SOLAR RADIATION TOTALS: Langley is the unit used to denote one gram calorie per square centimeter.

* Values with an asterisk are interpolated.
Data are only for those stations equipped with Eppley Model II sensors.

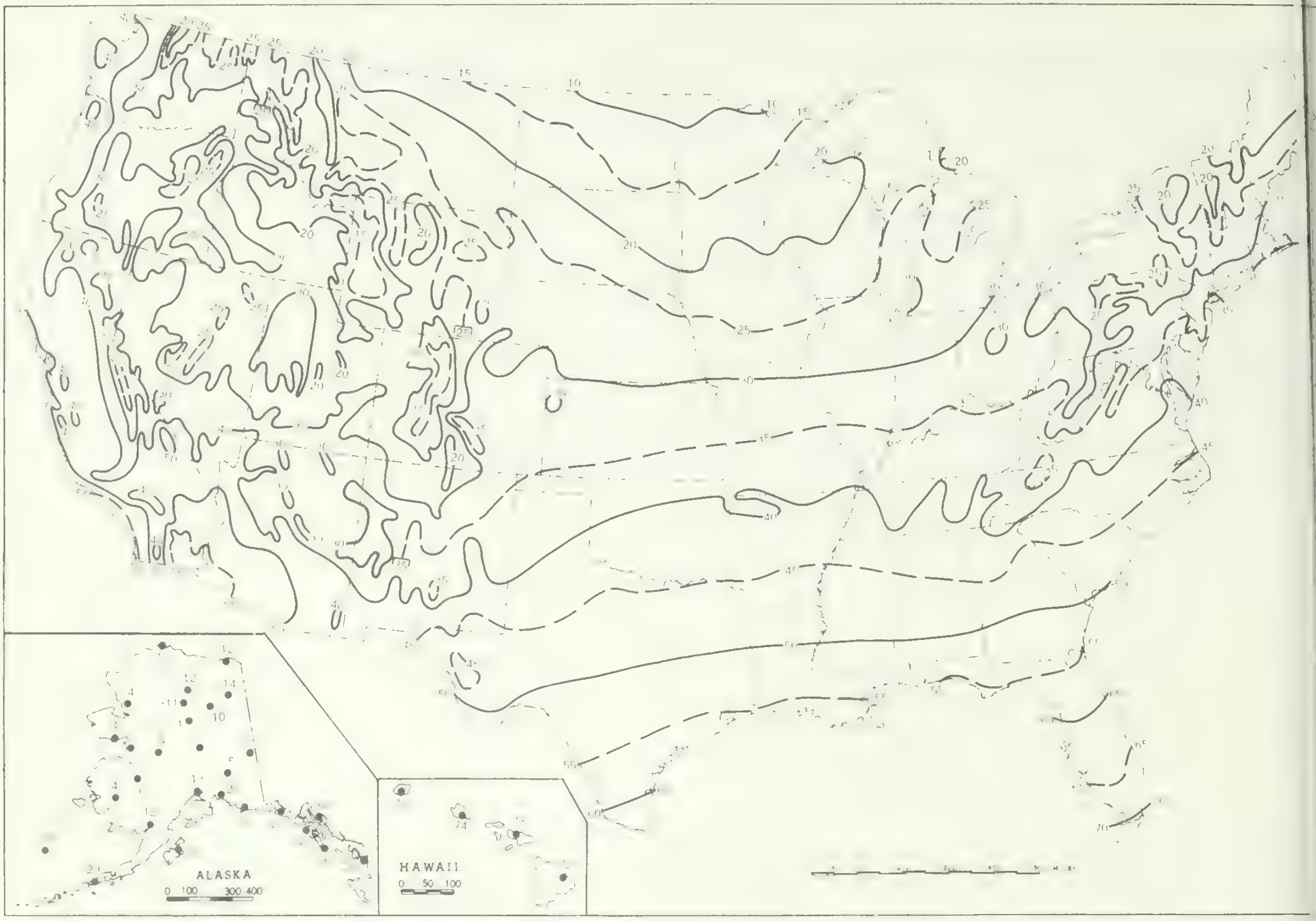
NET RADIATION: The measurement is made with a CSIRO FUNK net exchange radiometer over a plot of sod. The value represents the total incoming minus the total outgoing radiation of all wave lengths.

These data are of an experimental nature and are published as received from the Palmer Exp. Station. The instrument with which they were measured has not been checked by the NOAA, National Weather Service.

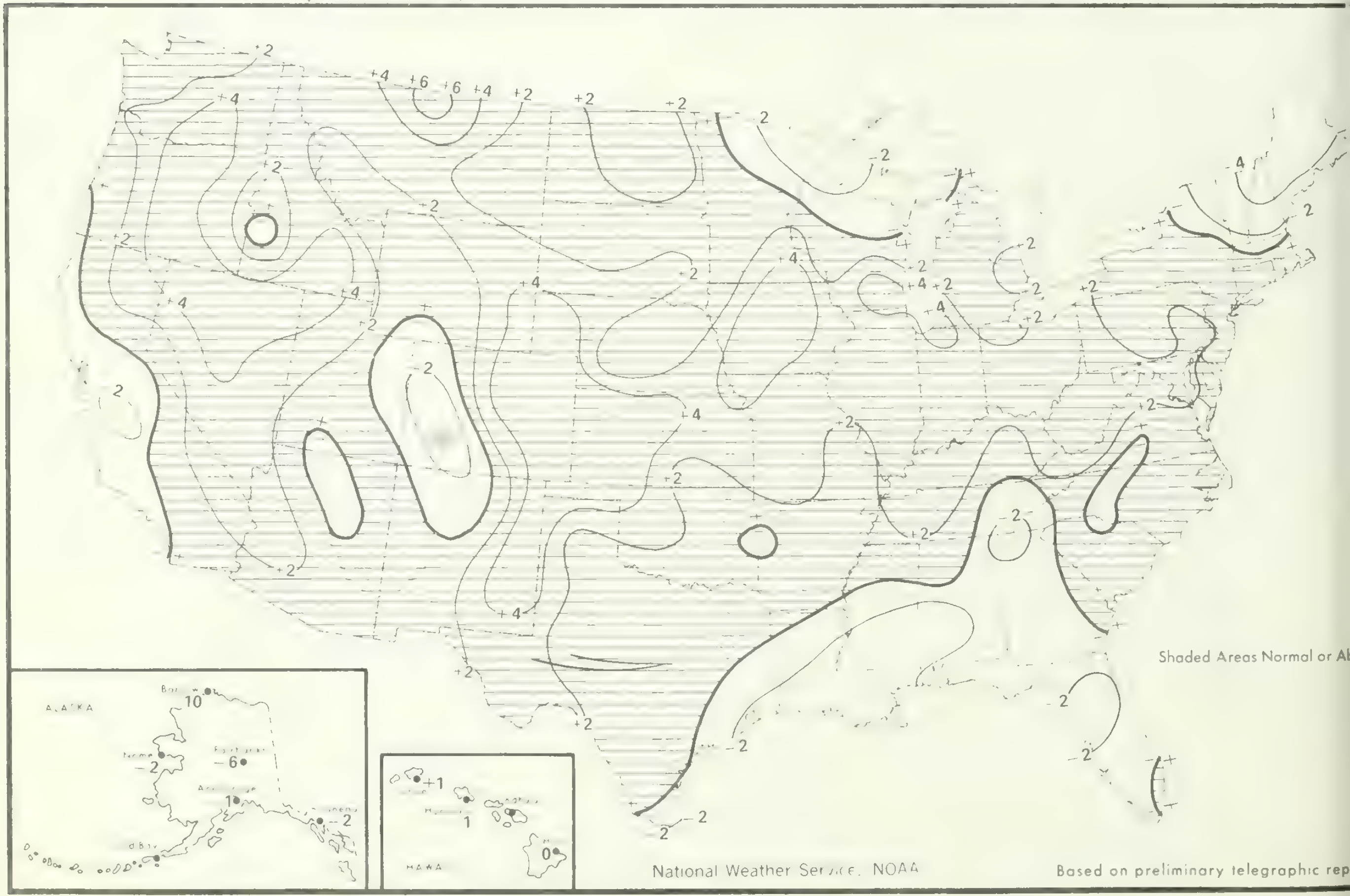
SOLAR ULTRA-VIOLET RADIATION DATA: These data are from an U-V Eppley total ultra violet sensor and Speedomax H (Leeds Northrup) Recorder. This instrument has not been checked by the NOAA, National Weather Service.

TOTAL OZONE DATA: The spectrophotometer measures the total amount of ozone in the atmosphere, i.e., the amount contained in a vertical column of air extending from ground level to the top of the atmosphere in the vicinity of the station. The amount of ozone in this column (coded $\Omega\ \Omega\ \Omega$) is expressed in terms of a thickness of a layer it would occupy at standard temperature and pressure, e.g., 350 milli-atmo-cm ozone implies an ozone layer 0.350 centimeter thick. The code λ_S designates the type of measurement made.

Chart 1. A. Normal Daily Average Temperature (°F. 1941-70), December.


10
15
20
25
30
35
40
45
50
55
60
65
70
ALASKA
0 100 300 400
HAWAII
0 50 100
74

B. Temperature Departure from 30 - Year Mean (°F 1941-70), December 1975

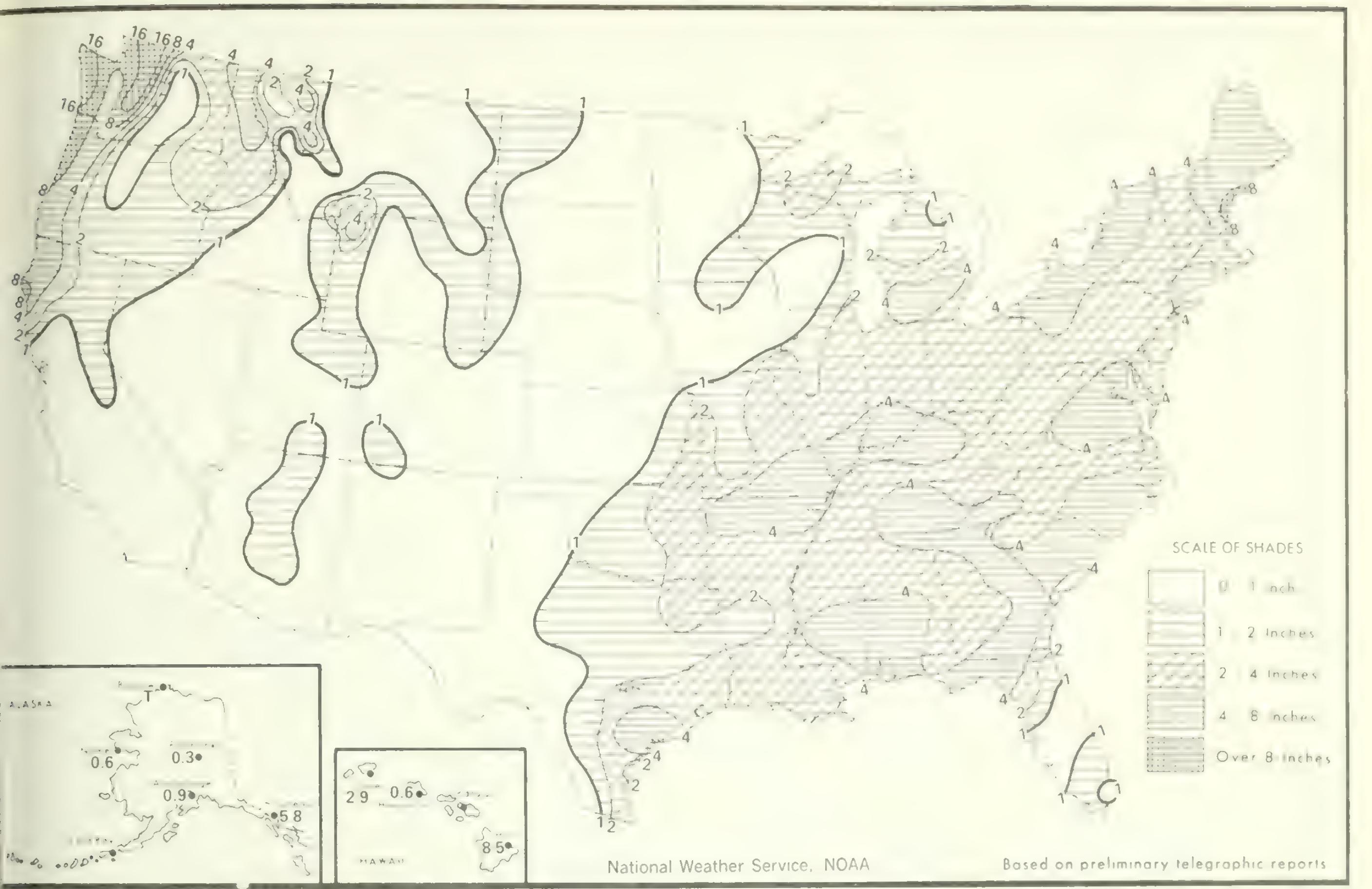

+4
+6
+6
+4
+2
+2
+2
-2
-2
-4
2
+4
+2
-2
+4
+2
+4
+2
+4
+2
+4
+2
-2
+4
+2
+2
-2
+2
-2
-2
-2
-2
ALASKA
Barrow
10
Nome
-2
Fairbanks
-6
Anchorage
1
-2
HAWAII
+1
1
0

Shaded Areas Normal or Ab

National Weather Service, NOAA

Based on preliminary telegraphic repo

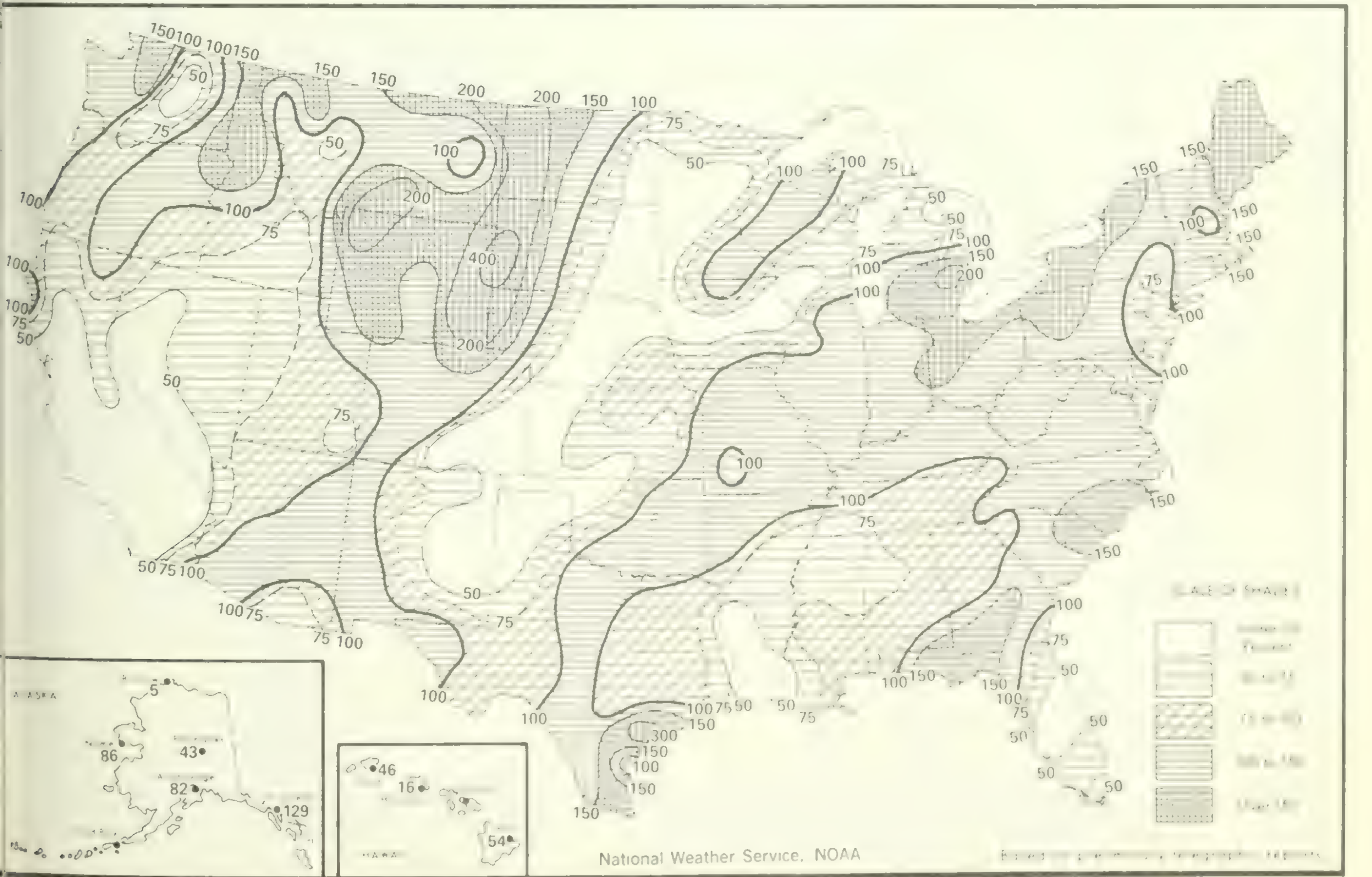
Chart II. A. Total Precipitation (Inches), December 1975


SCALE OF SHADES
0 - 1 Inch
1 - 2 Inches
2 - 4 Inches
4 - 8 Inches
Over 8 Inches
ALASKA
0.6
0.3
0.9
5.8
2.9
0.6
8.5
HAWAII
16
8
4
2
1

National Weather Service, NOAA

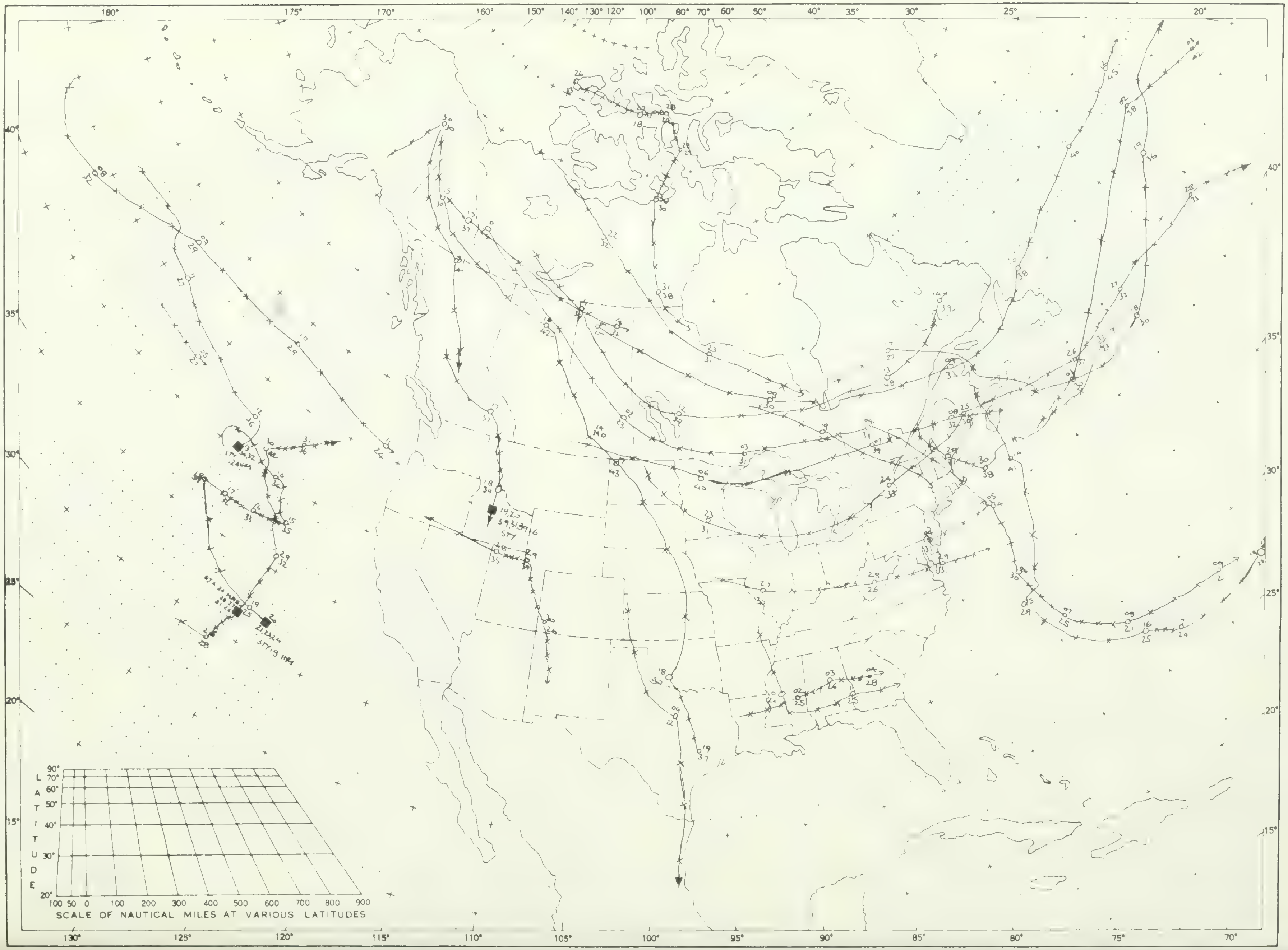
Based on preliminary telegraphic reports

B. Percentage of Normal Precipitation, December 1975

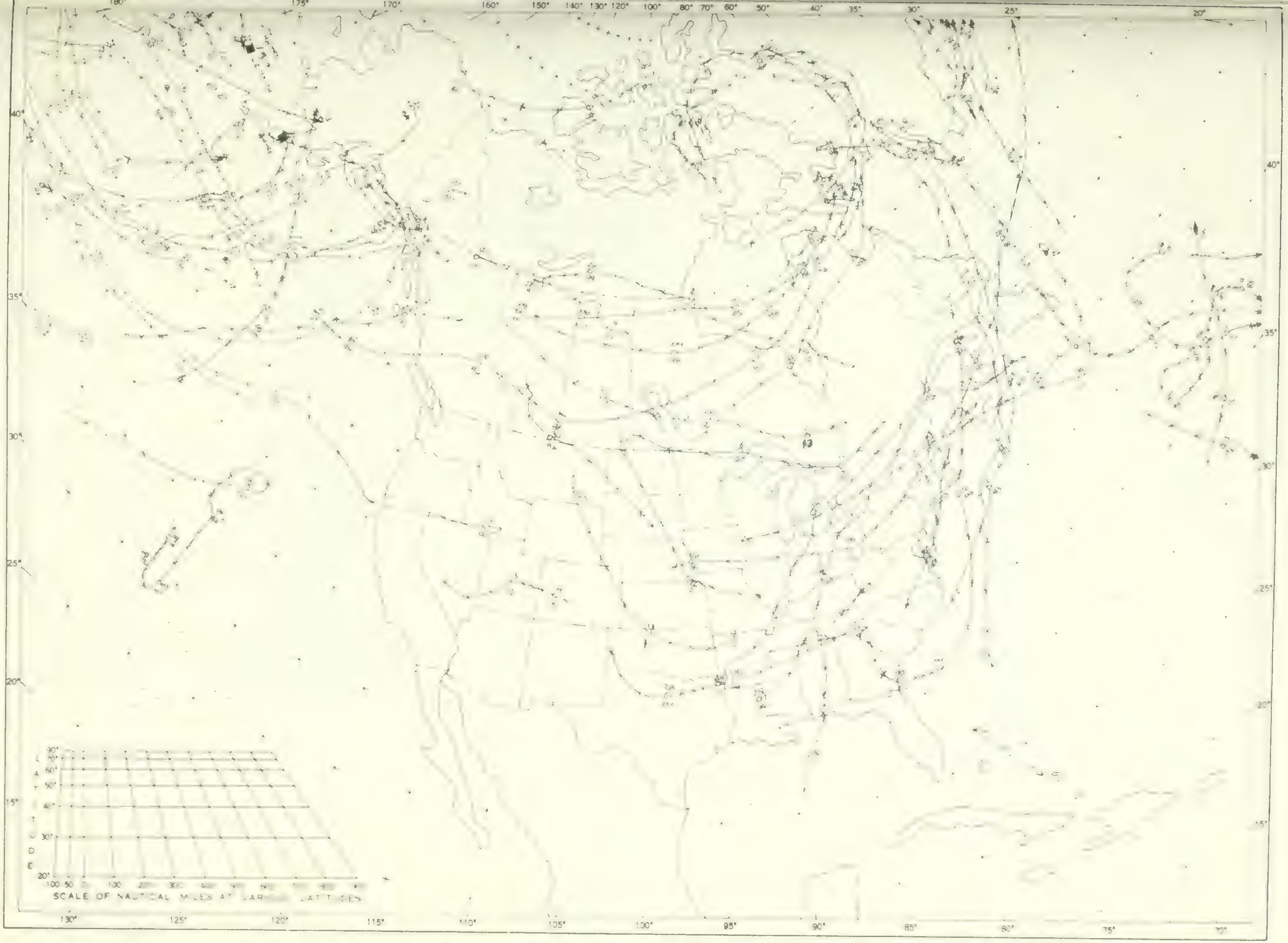

ALASKA
5
86
43
82
129
46
16
54
HAWAII
50
75
100
150
200
300
400

National Weather Service, NOAA

Chart III. Tracks of Centers of Anticyclones at Sea Level, December 1975


180°
175°
170°
160°
150°
140°
130°
120°
100°
80°
70°
60°
50°
40°
35°
30°
25°
20°
40°
35°
30°
25°
20°
15°
130°
125°
120°
115°
110°
105°
100°
95°
90°
85°
80°
75°
70°
LATITUDE
90°
70°
60°
50°
40°
30°
20°
100 50 0 100 200 300 400 500 600 700 800 900
SCALE OF NAUTICAL MILES AT VARIOUS LATITUDES

Circle indicates position of center at 7:00 a.m. E.S.T. Figure above circle indicates date, figure bel



180°
175°
170°
160°
150°
140°
130°
120°
100°
80°
70°
60°
50°
40°
35°
30°
25°
20°
40°
35°
30°
25°
20°
15°
130°
125°
120°
115°
110°
105°
100°
95°
90°
85°
80°
75°
70°
90°
70°
60°
50°
40°
30°
20°
LATITUDE
100 50 0 100 200 300 400 500 600 700 800 900
SCALE OF NAUTICAL MILES AT VARIOUS LATITUDES

Circle indicates position of center at 7:00 a.m. E.S.T. Figure above circle indicates date, figure below, pressure to nearest millibar. X's indicate intervening 6 hourly positions. Squares indicate position of stationary center for period shown. Dashed line in track indicates reformation at new position. Only those centers which could be identified for 24 hours or more are included.

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CLIMATOLOGICAL DATA

NATIONAL SUMMARY

DEPARTMENT OF COMMERCE
UNITED STATES OF AMERICA

"I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM INFORMATION RECEIVED AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801."

Thomas D. Potter
DIRECTOR
NATIONAL CLIMATIC CENTER

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL DATA SERVICE / NATIONAL CLIMATIC CENTER ASHEVILLE, N.C.

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Loss of Life and Property in the United States from Floods -- By Districts and Years, 1933-1973
Loss of Life and Property in the United States from Floods -- By Months and Years, 1925-1973
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SOLAR RADIATION DATA

Average Daily Values by Stations

CHARTS

I----Departure from Normal of Annual Average Temperature (°F) at Surface, 1975
II---Total Precipitation, 1975
III--Percentage of Normal Annual Precipitation, 1975

RAWINSONDE DATA (Average Annual Values) - tabulation discontinued. The tabulation RAWINSONDE DATA (Average Monthly Values) is carried in the monthly issue of the publication CLIMATOLOGICAL DATA NATIONAL SUMMARY.

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CLIMATOLOGICAL DATA

NATIONAL SUMMARY

YEAR 1975

GENERAL SUMMARY OF WEATHER CONDITIONS

Lewis A. Blodgett, Meteorological Advisor, NCC

For the third successive year, a warm January prevailed in the eastern part of the Country. The only significant area of below normal temperatures occurred in the southwestern mountain States. Precipitation was above normal over most of the Nation, with dry areas in California, the Desert Southwest, northern Montana, parts of the Great Plains, and southern Florida.

February continued warmer than normal east of the Mississippi, but cold weather returned to the West. Parts of Montana and Wyoming averaged more than 10° below normal for the month, with the coldest weather early in the month. Precipitation was mostly above normal in the eastern half of the Nation, with the exception of a dry strip along the Gulf Coast and Florida. The Pacific Northwest was also wet, although much of the Midwest and Mountain area was deficient in precipitation.

March was cold over most of the Nation, with the exception of a band along the southern coast extending westward through southern Texas, thence northwestward across the southern mountain area into Idaho. Most of the Nation, except the southern Plains, received above average precipitation.

The outstanding event during April occurred the first week when a storm, worthy of midwinter, intensified over the Great Lakes to cause heavy snow and damaging winds in the Northeast. Heavy rains caused record flooding the second week in parts of the South. Later in the month flooding occurred in the north central States. April was a cold month everywhere in the Nation except southern Florida.

Following record low temperatures early in May, the weather turned warmer, and the month averaged warmer than normal over the eastern United States. The West, except for California and Washington, continued to experience cooler than average temperatures during May. Precipitation was abundant in the South, along the Appalachians, and much of the Rockies. The month was dry in New England and the central and northern Plains, as well as California.

June temperatures averaged close to normal in most areas, being a bit cooler than average in the southern Plains, the Rockies, and Appalachians, and slightly warmer than normal elsewhere. Heavy rain fell in parts of the Gulf Coast area, as well as parts of the Midwest. The Southwest was almost totally dry.

July continued to be wet along the Gulf Coast, as well as having ample rain in the Atlantic Coast States and in the Northwest quadrant. The month opened with serious flooding in the Red River Valley of the North. However, parts of the Great Plains suffered from dry weather. The temperature trend was generally warmer than average across the northern half of the Nation, cooler in the South in late July, extending into early August, extreme heat baked the Northeast.

With August long-awaited moisture came to the dry areas of the Plains, but too late to prevent some crop damage. The month was wet in the Northwest and the Great Lakes area southward along the Mississippi Valley area. The Southwest continued dry. Temperatures during the month generally ranged above normal from the Plains eastward and in the Southwest.

The big event during September was Hurricane Eloise, which caused heavy rain and serious flooding in many Eastern areas during the last week of the month. Much of the area affected was the same that suffered disastrous flooding in June 1972 from Agnes. The month was cooler than normal over most of the Nation except the west. During the second week, record lows were widespread. Other than the East and Southwest, the month was quite dry. Record dryness prevailed in the Northwest.

October, in sharp contrast to the previous month, brought record precipitation to many areas in the Northwest. New England was wet, too, while the Great Lakes and Plains were dry. Although monthly averages were close to normal, record low temperatures occurred the first week in many areas, followed by record highs later in the month. The first major winter storm of the season swept into the intermountain region on the 7th.

November was marked by heavy precipitation in the Great Plains, some of it occurring as blizzards. Rainfall continued heavy along the Northwest Coast.

GENERAL SUMMARY OF WEATHER CONDITIONS

YEAR 1975

In general, the eastern half of the Nation was above normal in temperature, with record warmth the first week, while the West was colder than average. The month ended with most of the country considerably colder than normal.

December was warmer than normal over most of the country, except the lower Southeast. Rainfall was deficient in the Midwest and Florida. Heavy rain early in the month in the Pacific Northwest caused serious flooding.

MAXIMUM SHORT DURATION PRECIPITATION

MAXIMUM SHORT DURATION PRECIPITATION

Maximum precipitation in inches (5 to 180 minutes)

FORT SMITH, ARKANSAS

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.12	.16	.17	.19	.23	.27	.31	.37	.44	.49	.55	.57
DATE	30	30	30	30	30	30	31	31	31	31	31	31
TIME	2318	2323	2328	2333	2343	2358	0002	0022	0042	0102	0119	[illegible]
FEB	.42	.69	.70	.79	.83	.87	.92	.92	.92	.92	.97	.97
DATE	22	22	22	22	22	22	22	22	22	22	22	[illegible]
TIME	1031	1037	1040	1040	1050	1055	[illegible]	1125	1145	1205	1235	1305
MAR	.30	.48	.52	.53	.58	.65	.75	.93	1.00	1.09	1.10	1.11
DATE	12	12	12	12	27	27	27	[illegible]	1	27	27	27
TIME	0250	0255	0300	0305	1128	1137	1200	1231	1110	[illegible]	1315	1345
APR	.38	.50	[illegible]	.53	.55	.57	.66	.67	.68	.69	.70	.80
DATE	24	24	24	24	24	24	24	24	24	24	24	24
TIME	2019	2024	2029	2034	2044	2059	2114	2134	2154	2214	2244	2314
MAY	.38	.66	.92	1.06	1.41	1.46	1.62	1.67	1.70	1.77	1.81	1.81
DATE	06	06	06	06	06	06	06	06	06	06	06	06
TIME	1804	1809	1814	1819	1829	1844	1859	1919	1939	1959	2029	2059
JUN	.35	.51	.69	1.11	[illegible]	[illegible]	1.30	1.35	1.42	1.44	1.45	1.48
DATE	16	16	17	17	17	17	17	17	17	17	17	17
TIME	2353	2358	0003	0008	0018	0033	0048	[illegible]	[illegible]	0148	0218	0248
JUL	.33	.53	.71	.83	.94	1.04	1.10	1.10	[illegible]	1.12	1.13	1.13
DATE	22	22	22	22	22	22	22	22	22	22	22	22
TIME	2028	2030	2035	2040	2048	2103	2118	2138	2158	2218	2248	2318
AUG	.25	.47	.47	.50	.75	.87	.93	1.04	1.12	1.15	1.15	1.20
DATE	14	27	27	14	14	14	14	14	14	14	14	14
TIME	1016	1718	1715	1020	1030	[illegible]	[illegible]	1045	[illegible]	1115	1145	[illegible]
SEP	.14	.21	.22	.22	.25	.27	.28	.32	.38	.42	.43	.45
DATE	11	11	11	11	11	11	11	11	11	11	11	11
TIME	2150	2153	2155	2200	[illegible]	2225	2240	2300	2320	2340	2345	2345
OCT	.02	.03	.05	.08	.08	.11	.12	.14	.15	.18	.18	.19
DATE	01	01	01	01	01	01	01	01	01	01	01	01
TIME	0556	0600	0606	0607	0612	0615	0615	0615	0615	0615	0615	0615
NOV	.19	.27	.32	.34	.40	.43	.45	.48	.53	.59	[illegible]	.69
DATE	29	29	29	29	29	29	29	29	19	19	19	19
TIME	2230	2230	2235	2240	[illegible]	2305	[illegible]	2340	1746	1806	1836	1906
DEC	.14	.21	.27	.29	.31	.32	.34	.42	.49	.54	.60	.63
DATE	05	05	05	05	05	05	05	05	05	05	05	05
TIME	[illegible]	2203	2207	2209	[illegible]	2233	2248	2210	2220	2230	2221	2251
YEAR	.42	.69	.92	1.06	1.41	1.46	1.62	1.67	1.70	1.77	1.81	1.81
MONTH	02	02	05	05	05	05	05	05	05	05	05	05

LITTLE ROCK, ARKANSAS

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.16	.31	.35	.35	.35	.43	.52	.57	.62	.67	.79	.87
DATE	18	18	18	18	18	31	31	31	[illegible]	10	10	10
TIME	0640	0645	0650	[illegible]	[illegible]	[illegible]	1200	1220	1240	0640	0710	0740
FEB	.18	.27	.26	.29	.36	.38	.38	.45	.55	.59	.71	.88
DATE	13	13	16	16	16	16	16	01	[illegible]	01	01	01
TIME	0151	0200	1345	[illegible]	1400	[illegible]	1430	1305	[illegible]	1345	1415	1445
MAR	.45	.63	.70	.78	.84	.95	.95	.96	1.14	1.17	1.25	1.35
DATE	27	27	27	27	27	27	27	27	27	27	27	[illegible]
TIME	[illegible]	1905	1905	1905	1905	1905	1905	[illegible]	2003	2025	2050	[illegible]
APR	.20	.35	.40	.64	.73	.75	.80	.92	.93	.94	.97	1.00
DATE	25	25	25	25	25	25	25	25	25	25	25	25
TIME	0105	0110	0115	0120	[illegible]	0145	0130	0130	0145	0205	0240	0305
MAY	[illegible]	.39	[illegible]	.53	.54	[illegible]	.83	.88	.99	1.10	1.18	1.18
DATE	26	26	26	26	26	[illegible]	29	29	29	29	29	29
TIME	1332	1337	1347	1352	1402	0435	0455	0515	0535	0555	0625	0625
JUN	.17	.19	[illegible]	.22	.23	.28	.30	.34	.35	[illegible]	.40	.40
DATE	09	09	09	09	09	09	09	09	09	09	09	09
TIME	0308	0313	0318	0323	0335	0347	0400	[illegible]	[illegible]	0428	0428	0428
JUL	.25	.40	.45	[illegible]	.66	.72	.73	1.00	[illegible]	1.03	1.03	1.03
DATE	[illegible]	10	10	[illegible]	20	20	20		[illegible]	[illegible]	[illegible]	20
TIME	2235	2240	2245	2250	[illegible]	[illegible]	1820	1755	1815	1835	1905	1935
AUG	.76	[illegible]	.76	1.00	1.45	[illegible]	1.65	1.68	1.69	1.70	1.70	1.70
DATE	3	[illegible]	03	03	03	03	03	[illegible]	[illegible]	03	03	03
TIME	1515	1520	1525	[illegible]	[illegible]	1555	1610	1630	1650	1710	[illegible]	[illegible]
SEP	.10	[illegible]	.17	.20	.21	.21	.21	.25	.38	.40	[illegible]	.43
DATE	05	05	05	05	05	05	05	05	05	05	05	05
TIME	1240	1245	1240	1245	1255	[illegible]	1325	1340	1400	1420	1450	1530
OCT	.28	.58	.65	[illegible]	1.00	1.18	1.22	1.30	[illegible]	[illegible]	1.30	1.30
DATE	24	24	24	24	24	24	24	24	24	24	24	24
TIME	1935	1940	1945	1950	2000	2015	2030	2050	[illegible]	[illegible]	2116	2116
NOV	.25	.40	.43	.44	.48	.50	.50	.53	.54	.55	[illegible]	.71
DATE	19	19	19	19	19	19	19	19	20	30	30	30
TIME	[illegible]	2228	2233	2248	2303	[illegible]	[illegible]	2353	[illegible]	0345	0415	0445
DEC	.07	.09	.12	.13	[illegible]	.25	.27	.32	.37	.46	.46	.46
DATE	06	06	06	06	06	06	06	06	06	06	06	06
TIME	1405	1410	1415	1420	[illegible]	1423	1440	1500	1520	1540	1540	1540
YEAR	.45	[illegible]	.76	[illegible]	1.45	[illegible]	1.65	1.68	1.69	1.70	1.70	1.70
MONTH	03	03	08	08	08	08	08	08	08	08	08	08

BAKERSFIELD, CALIFORNIA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.01	.02	.03	.04	.05	.05	.06	.06	.06	.06	.06	.06
DATE	08	08	08	08	08	08	08	08	08	08	08	08
TIME	1431	1436	1441	1446	1446	1446	1446	1446	1446	1446	1446	1446
FEB	.02	.04	.06	.08	.12	.17	.20	.28	.32	.35	.37	.39
DATE	03	03	03	03	03	03	03	03	03	03	03	03
TIME	0530	0530	0530	0530	0531	0540	0555	[illegible]	0625	[illegible]	0630	0647
MAR	.05	.05	.06	.07	.08	.10	.11	.11	[illegible]	.11	.11	[illegible]
DATE	11	11	11	11	11	11	11	11	11	11	11	11
TIME	1205	1210	1215	0445	0445	0450	0510	0510	0510	0510	0510	0510
APR	.06	.08	.08	.09	.12	.18	.24	.29	.35	.38	.40	.46
DATE	06	06	06	17	17	17	17	17	17	17	17	17
TIME	1835	1840	1845	0250	0300	0315	0330	0350	0350	0410	0430	0445
MAY	T	T	T	T	T	T	T	T	T	T	T	T
DATE												
TIME												
JUN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
DATE												
TIME												
JUL	.00	.00	.00	.00	[illegible]	.00	.00	.00	.00	.00	.00	.00
DATE												
TIME												
AUG	.02	.04	.04	.05	.05	.05	.05	.05	.05	.05	.05	.05
DATE	18	18	18	18	18	18	18	18	18	18	18	18
TIME	1930	1935	1940	1945	1945	1945	1945	1945	1945	1945	1945	1945
SEP	T	T	T	T	T	T	T	T	T	T	T	T
DATE												
TIME												
OCT	.04	.05	.05	.06	[illegible]	.08	.11	.14	.16	.18	.21	.22
DATE	07	07	07	07	07	07	07	07	07	07	07	07
TIME	0102	0107	0112	[illegible]	[illegible]	0142	0157	0217	0237	0257	0327	[illegible]
NOV	.03	.05	.08	.09	.11	.12	.12	.12	.12	.12	.12	.12
DATE	28	28	29	28	28	28	28	28	28	28	28	28
TIME	1523	1528	1533	1538	1548	1600	1617	1620	1620	1620	1620	1620
DEC	.03	.03	.03	.03	.04	.04	.04	.04	.04	.05	.05	.05
DATE	12	12	12	12	10	10	10	10	10	12	12	12
TIME	1535	1535	1535	1540	1435	1450	1505	1520	1520	1540	1540	1540
YEAR	.06	.08	.08	.09	.12	.18	.24	.29	.35	.38	.40	.46
MONTH	04	04	11+	11+	04+	04	04	04	04	04	04	04

BISHOP, CALIFORNIA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	T	T	T	T	T	T	T	T	T	T	T	T
DATE												
TIME												
FEB	.02	.02	.03	.03	.04	.04	.04	.04	.07	.07	.08	.08
DATE	09	09	09	09	09	09	09	09	09	09	09	09
TIME	0007	0015	0015	0020	0145	0145	0145	0145	0140	0140	0140	0215
MAR	.02	.04	.04	.05	.07	.09	.11	.15	.18	.22	.26	.29
DATE	08	08	29	25	08	08	08	08	08	08	08	08
TIME	0430	0435	0535	0535	0600	0505	0555	0615	0555	0645	0640	0700
APR	.02	.03	.04	.04	.07	.09	.11	.13	.14	.16	.17	.18
DATE	11	11	11	11	11	11	11	11	11	11	11	11
TIME	0220	0200	0205	0210	0220	0220	0220	0220	0240	0300	0235	0335
MAY	T	T	T	T	T	T	T	T	T	T	T	T
DATE												
TIME												
JUN	.01	.02	.02	.03	.04	.04	.05	.05	.06	.06	.06	.06
DATE	19	19	19	19	19	19	19	19	19	19	19	19
TIME	1515	1520	1525	1530	1540	1555	1610	1630	1650	1710	1730	1730
JUL	T	T	T	T	T	T	T	T	T	T	T	T
DATE												
TIME												
AUG	[illegible]	[illegible]	.03	.03	.04	.04	.04	.04	.05	.05	.05	.05
DATE	20	20	20	20	20	20	20	20	20	20	20	20
TIME	1830	1837	1844	1844	1856	1856	1856	1856	1858	1858	1858	1915
SEP	* .21	* .22	* .22	.23	* .23	.23	.23	.27	.31	.33	.36	.41
DATE	18	18	18	18	18	18	18	08	08	08	08	08
TIME	1603	1608	1613	1618	1625	1640	1655	2150	2155	2215	2220	[illegible]
OCT	.02	.03	.04	.04	.05	.06	.06	.06	.06	.07	.07	.07
DATE	30	30	30	30	30	30	30	30	30	30	30	30
TIME	1645	1650	1655	1655	1700	1715	1715	1715	1715	1705	1715	[illegible]
NOV	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02
DATE	28	28	28	28	28	28	28	28	28	28	28	28
TIME	1605	1605	1605	1605	1605	1605	1605	1605	1605	1605	1605	1605
DEC	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
DATE												
TIME												
YEAR	* .21	* .22	* .22	.23	* .23	.23	.23	.27	.31	.33	.36	.41
MONTH	09	09	09	09	09	09	09	09	09	09	09	09

BLUE CANYON, CALIFORNIA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.04	.08	.12	[illegible]	.19	.29	.38	.47	.61	.69	.76	.86
DATE	07	07	07	07	07	07	07	07	07	07	07	07
TIME	2217	2217	2217	2217	2217	2217	2232	2315	2315	2315	2315	2315
FEB	.06	.10	.13	.15	.18	.21	.31	.37	.44	.50	.61	.78
DATE	09	09	09	09	09	09	13	13	13	13	13	13
TIME	2202	2202	2202	2202	[illegible]	1500	0622	0642	0702	0717	0717	0717
MAR	.06	.08	.10	.13	.18	.21	.31	.40	.51	.58	.71	.82
DATE	24	24	24	24	21	21	21	21	21	21	21	21
TIME	1815	1829	1830	1830	1500	1645	1900	1900	1900	1900	1900	1900
APR	.07	.09	.13	.18	.23	.28	.30	.45	.48	.52	.67	.71
DATE	24	24	24	24	24	24	24	24	24	24	24	24
TIME	1641	1646	1700	1708	1715	1645	1700	1440	1445	1455	1630	1445
MAY	.06	.08	.09	.11	.14	.17	.19	.21	.26	.32	.38	.45
DATE	03	03	03	03	03	03	03	03	03	03	03	03
TIME	1819	1824	1829	1834	1844	1859	[illegible]	1355	1355	1355	1355	1355
JUN	.03	.05	.06	.08	[illegible]	.13	.14	.14	.16	.16	.17	.22
DATE	24	24	24	24	24	24	24	24	24	24	24	24
TIME	1319	0610	0615	0615	0620	0635	0635	0635	0710	0710	0710	0710
JUL	.02	[illegible]	.03	.03	.04	.05	.05	.07	.09	.10	[illegible]	.14
DATE	15	15	15	15	15	15	15	15	15	15	15	15
TIME	1340	1345	1455	[illegible]	1632	1647	1657	1455	1515	[illegible]	1555	1635
AUG	.12	.18	.25	.27	[illegible]	.47	.62	.66	.69	.69	.69	.69
DATE	20	20	20	20	20	20	20	20	20	20	20	20
TIME	1630	1435	1640	1645	[illegible]	1710	[illegible]	[illegible]	[illegible]	[illegible]	1850	1850
SEP	T	T	T	T	T	T	.01	.01	.01	.02	.02	.02
DATE							10	10	10	10	10	10
TIME							[illegible]	0940	0940	0940	1010	[illegible]
OCT	.07	.10	.12	.13	.16	.23	.31	.38	.47	.53	.66	.74
DATE	06	06	06	10	10	10	26	26	26	26	26	26
TIME	1835	1835	1835	0630	0630	0630	0145	0145	0145	0145	0145	0145
NOV	.05	.07	.09	.11	.14	.17	.21	.24	.27	.34	.40	.46
DATE	10	15	15	15	15	16	16	16	16	16	16	16
TIME	0539	2248	2253	2258	2308	0106	0119	[illegible]	0119	0119	0119	0149
DEC	.04	.08	.08	.09	.12	.16	.20	.24	.29	.33	.36	.43
DATE	22	22	22	22	22	12	12	12	12	12	12	12
TIME	0110	0110	0115	0115	0115	0145	0145	0205	0225	0245	0310	0352
YEAR	.12	.18	.25	.27	.32	.47	.62	.66	.69	.69	.76	.86
MONTH	08	08	08	08	05	08	08	08	08	08+	01	01

EUREKA, CALIFORNIA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	.17	.18	.19	.19	.20	.25	.31	.37	[illegible]	.55	[illegible]
DATE	07	07	07	07	07	31	31	[illegible]	31	31	31	31
TIME	2129	[illegible]	[illegible]	2132	2132	0600	0611	[illegible]	0700	[illegible]	0734	0750
FEB	.07	.12	.14	.16	.21	.26	.32	.38	.41	.45	.55	.63
DATE	09	09	09	[illegible]	09	09	[illegible]	19	19	19	[illegible]	19
TIME	2141	2141	[illegible]	[illegible]	1544	1558	0911	0913	[illegible]	[illegible]	[illegible]	0912
MAR	.08	.13	.16	.19	.22	.27	.34	.43	.53	.64	.77	.91
DATE	[illegible]	21+	19	15	15	18	18	18	18	18	18	18
TIME	0538	2223	2228	2233	2243	0138	0150	0210	0231	0259	0250	0311
APR	.05	.08	.09	.10	.14	.21	.27	.30	.32	.34	.34	.34
DATE	25+	24	24	24	24	24	24	24	24	24	24	24
TIME	1008	2224	2228	0935	0908	0925	0938	0952	0954	1014	1044	1114
MAY	.08	.12	.15	.17	[illegible]	.22	.26	.28	.30	[illegible]	.36	.37
DATE	03	03	03	03	03	03	03	03	03	03	03	03
TIME	0130	0132	0136	0137	0143	0158	0208	0215	0235	0256	0229	0259
JUN	.08	.12	.16	.19	.26	.31	.39	.44	.47	.47	.50	.50
DATE	23	23	23	23	23	23	23	23	23	23	23	23
TIME	0731	0734	0738	0744	0748	0801	0820	1836	0850	[illegible]	0852	0922
JUL	[illegible]	.01	.02	.02	.03	.03	.04	.05	.05	.05	.06	.06
DATE	28	28	28	28	28	28	28	28	28	28	29	28
TIME	2124	2128	2134	2138	2148	2203	2218	2238	2238	2238	2235	2240
AUG	M	M	M	M	M	M	M	M	M	M	M	M
DATE												
TIME												
SEP	.01	[illegible]	.01	.01	.01	.01	.01	.01	.01	[illegible]	.01	.01
DATE	15	15	15	15	15	15	15	15	15	15	15	15
TIME	1536	1536	1536	1536	1536	1536	1536	1536	1536	1536	1536	1536
OCT	M	M	M	M	M	.25	.32	.43	.54	.62	.74	.84
DATE						25	25	25	25	25	25	25
TIME						1536	1556	1637	1636	1647	1659	1742
NOV	.05	.09	.13	.15	.20	.29	.38	.48	.59	.68	.81	.94
DATE	14	14	14	14	14	14	14	14	14	15	14	15
TIME	2128	2224	2227	2232	2312	2257	2312	2332	2352	[illegible]	2349	1218
DEC	.06	.10	.14	[illegible]	.22	.31	.41	.52	.60	.70	.83	.96
DATE	04	04	04	04	04	04	04	04	04	04	04	04
TIME	1554	1554	1554	[illegible]	1600	[illegible]	0843	0853	0913	0927	0957	1024
YEAR	.11	[illegible]	.18	.19	.26	.31	.41	.52	.60	.70	.83	.96
MONTH	01	01	01	06+	06	12+	12	12	12	[illegible]	12	12

FRESNO, CALIFORNIA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	.13	.13	.15	[illegible]	.20	.21	.21	.21	.21	.22
DATE	08	08	08	06	06	08	08	08	08	08	08	08
TIME	1148	1150	1156	1200	1146	1153	1208	1220	1220	[illegible]	1220	1408
FEB	.03	[illegible]	.06	.08	.09	.11	.13	.15	.17	.19	[illegible]	[illegible]
DATE	[illegible]	10+	09	08	08	08	08	08	08	08	08	08
TIME	[illegible]	0450	2010	2015	2025	[illegible]	2055	2054	2053	2100	[illegible]	2108
MAR	.09	[illegible]	.17	.20	.24	.28	.31	.34	.37	.39	.42	.42
DATE	13	13	13	13	13	13	13	13	13	13	13	13
TIME	1506	1511	1516	[illegible]	1526	1526	1537	1557	1531	1550	1620	1649
APR	.05	.07	.08	.09	.10	[illegible]	.10	.10	.11	.12	.13	.15
DATE	05	05	05	05	05	05	05	05	05	05	05	05
TIME	1201	1204	1209	[illegible]	1208	1212	1212	1212	0317	0337	0346	[illegible]
MAY	T	T	T	T	T	T	T	T	T	T	T	T
DATE												
TIME												
JUN	.00	.00	.00	[illegible]	.00	.00	.00	.00	.00	[illegible]	.00	.00
DATE												
TIME												
JUL	T	T	T	T	T	T	T	T	T	T	T	T
DATE												
TIME												
AUG	.01	.02	.02	.02	.03	[illegible]	.05	.05	.05	.05	.05	.05
DATE	18	18	19	18	18	18	18	18	18	18	18	18
TIME	1540	1545	1550	1555	1605	1620	[illegible]	1645	1645	1645	1645	1645
SEP	[illegible]	.08	.10	.11	.12	.14	.14	.16	.19	.20	.21	.22
DATE	10	10	10	10	10	10	10	10	10	10	10	10
TIME	0746	0750	0754	0754	[illegible]	0818	0818	[illegible]	0912	0924	0943	0943
OCT	.03	.05	.06	.08	.12	.17	.23	.26	.28	.31	.36	.39
DATE	30	30	30	30	30	30	30	30	30	30	30	30
TIME	1149	1154	[illegible]	[illegible]	0730	0745	0800	0820	[illegible]	1340	1356	1424
NOV	[illegible]	.02	.03	.03	.03	.04	.04	.04	.04	.04	.05	.06
DATE	28	28	28	28	28	28	28	28	28	28	28	28
TIME	0543	0544	0549	0554	[illegible]	0614	0614	0614	0614	[illegible]	0058	0106
DEC	[illegible]	.01	.02	.02	.03	.03	.04	.05	.05	.05	.05	.06
DATE	12	12	12	12	12	12	12	12	12	12	12	12
TIME	[illegible]	[illegible]	[illegible]	[illegible]	0420	0443	0450	[illegible]	0530	0550	0620	[illegible]
YEAR	[illegible]	[illegible]	[illegible]	[illegible]	.24	.28	.31	.34	.37	.39	.42	.42
MONTH	01	03	03	[illegible]	03	03	03	03	[illegible]	03	03	03

LOS ANGELES, CALIFORNIA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	T	T	T	T	T	T	T	T	T	T	T	T
DATE												
TIME												
FEB	.14	.20	.29	.36	.54	[illegible]	.62	.64	.65	.66	.68	.68
DATE	03	03	03	03	03	03	03	03	03	03	03	03
TIME	0035	[illegible]	0415	0420	0430	0440	0455	0515	0535	0555	0625	0625
MAR	.08	.14	.20	.24	.34	.43	.53	.54	.60	[illegible]	.70	.74
DATE	08	08	08	08	08	08	08	08	08	08	08	08
TIME	0110	0110	0115	0120	0120	0120	0125	[illegible]	0125	[illegible]	[illegible]	0130
APR	.04	.07	.08	.08	.09	.09	.09	.11	.13	.14	.16	.17
DATE	14	14	14	14	05	05	05	08	08	08	08	08
TIME	[illegible]	0036	0041	0044	1435	1435	1435	2235	2255	2315	2315	[illegible]
MAY	[illegible]	[illegible]	.03	.04	.04	.04	.04	.04	.04	.04	.04	.04
DATE	20	20	20	20	20	20	20	20	20	20	20	20
TIME	0245	0250	0255	0305	0305	0305	0305	[illegible]	0305	[illegible]	0305	0305
JUN	T	T	T	T	T	T	T	T	T	T	T	T
DATE												
TIME												
JUL	T	T	T	T	T	T	T	T	T	T	T	T
DATE												
TIME												
AUG	T	T	T	T	T	T	T	T	T	T	T	T
DATE												
TIME												
SEP	T	T	T	T	T	T	T	T	T	T	T	T
DATE												
TIME												
OCT	.02	.03	.03	.03	.04	.05	[illegible]	.07	.08	.10	[illegible]	.12
DATE	11	11	11	11	11	11	11	11	11	11	[illegible]	11
TIME	0415	0415	0415	0415	0415	0415	0415	0415	0415	0415	0545	0545
NOV	T	T	T	T	T	T	T	T	T	T	T	T
DATE												
TIME												
DEC	.03	.04	.04	.05	.05	.05	.05	.06	[illegible]	[illegible]	.07	.07
DATE	12	12	12	12	12	12	12	12	12	12	12	12
TIME	1045	1053	1053	1053	1053	1053	1105	1138	1200	1215	1235	1305
YEAR	.14	.20	.29	.36	.54	[illegible]	.62	.64	.65	.66	.70	.74
MONTH	02	02	02	02	02	02	02	02	[illegible]	[illegible]	03	03

MOUNT SHASTA, CALIFORNIA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.04	.05	.05	.07	.09	.14	.18	.23	.28	.33	.39	.44
DATE	31	31	31	31	31	31	31	31	31	31	31	31
TIME	1115	[illegible]	1115	[illegible]	1130	1145	1300	1300	1300	1300	1300	1300
FEB	.05	.08	.10	.12	.18	.25	.33	.42	.51	.60	.70	.79
DATE	12	12	12	12	12	12	12	12	12	12	[illegible]	12
TIME	1115	1115	1115	1120	1115	1115	1115	1100	1140	1200	[illegible]	1200
MAR	.03	.05	.07	.08	.12	.17	.22	.27	.32	.38	.43	.45
DATE	01	01	01	01	08	07	07	07	07	07	07	07
TIME	1545	1545	1545	1545	0605	[illegible]	1030	1030	1100	1100	1130	1200
APR	.03	.04	.05	.06	.07	.08	.09	.11	.13	.15	.17	.20
DATE	24	24	24	24	24	24	24	24	24	24	24	24
TIME	1250	1255	1300	[illegible]	0900	0900	0900	0900	0900	0900	0930	1000
MAY	.01	.01	.01	[illegible]	.01	[illegible]	.02	.02	.03	.03	.04	.05
DATE	13	13	13	13	13	13	13	13	13	13	13	13
TIME	0450	0450	0450	0450	0450	0450	0450	0450	0450	0450	0450	0450
JUN	.02	.03	.04	.05	.06	.08	.08	.10	.12	.14	.18	.20
DATE	24	24	24	24	24	24	24	24	24	24	24	24
TIME	0030	0030	0030	0030	0030	[illegible]	0100	0125	0145	0205	0235	0305
JUL	.02	[illegible]	.04	.04	.05	.05	.05	.06	.07	.07	.08	.08
DATE	15	15	15	15	15	15	15	15	15	15	15	15
TIME	0520	0525	0530	0535	0545	0545	0600	0600	0600	0600	0600	0600
AUG	.04	.05	.05	.06	.07	.10	.10	.10	[illegible]	.10	[illegible]	[illegible]
DATE	27	27	27	27	27	27	27	27	17	17	17	17
TIME	2040	2045	[illegible]	[illegible]	2105	2120	2135	2155	1540	1600	[illegible]	[illegible]
SEP	T	T	T	T	T	T	T	T	T	T	T	T
DATE												
TIME												
OCT	.04	.05	.08	.10	.14	.18	.25	.29	.32	.34	.37	.43
DATE	29	29	29	29	29	29	29	29	29	29	29	09
TIME	1815	1815	1815	[illegible]	1830	1830	1840	1900	1900	1900	1710	1645
NOV	[illegible]	[illegible]	[illegible]	.10	[illegible]	.21	.24	.29	.32	.36	.41	.45
DATE	15	15	15	15	15	15	15	15	15	15	15	15
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0145	0200	0220	[illegible]	[illegible]	[illegible]	0220
DEC	.04	.05	.05	[illegible]	.06	[illegible]	.09	.11	.14	.16	.19	.21
DATE	30	30	30	30	30	30	21	21	21	21	[illegible]	21
TIME	1800	1805	1810	1815	1815	1805	2200	2200	[illegible]	2200	2230	[illegible]
YEAR	.05	[illegible]	[illegible]	.12	.18	.25	.33	.42	.51	[illegible]	[illegible]	.79
MONTH	[illegible]	02	[illegible]	02	02	02	02	02	02		[illegible]	

MAXIMUM SHORT DURATION PRECIPITATION

MAXIMUM SHORT DURATION PRECIPITATION

Maximum precipitation in inches (5 to 180 minutes)

COLORADO SPRINGS, COLORADO

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	T	T	[illegible]	.01	.02	.02	.03	.03	.03	.03	.03	.03
DATE			30	30	30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	30	[illegible]
TIME			[illegible]	[illegible]	[illegible]	2015	2030	2050	[illegible]	[illegible]	2150	2210
FEB	[illegible]	[illegible]	[illegible]	.02	.03	.04	.05	[illegible]	.06	.07	.08	.08
DATE		14	14	14	14	14	14	[illegible]	15	15	15	15
TIME		[illegible]	[illegible]	[illegible]	2250	2305	2320	[illegible]	[illegible]	0020	0050	0120
MAR	[illegible]	[illegible]	.03	.04	.05	.07	.08	.08	.09	.10	.10	[illegible]
DATE	[illegible]	11	[illegible]	[illegible]	11	11	11	11	[illegible]	11	11	[illegible]
TIME	[illegible]	[illegible]	1447	1452	[illegible]	1517	1532	1552	1612	1620	[illegible]	1720
APR	[illegible]	[illegible]	.03	[illegible]	.06	.08	.10	.11	.12	.12	.13	.14
DATE	19	18	18	19	18	18	18	18	18	18	18	18
TIME	[illegible]	[illegible]	[illegible]	[illegible]	0250	[illegible]	0300	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MAY	[illegible]	[illegible]	[illegible]	.09	[illegible]	.19	.20	.20	.20	[illegible]	.20	.22
DATE	[illegible]	[illegible]	[illegible]	[illegible]	22	22	22	[illegible]	[illegible]	[illegible]	22	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1831	[illegible]	1843	[illegible]	1843	[illegible]	[illegible]	1843
JUN	[illegible]	[illegible]	[illegible]	[illegible]	.23	[illegible]	[illegible]	.35	.42	.45	.51	.59
DATE	[illegible]	8	[illegible]	08	[illegible]	08	09	9	[illegible]	09	09	09
TIME	[illegible]	[illegible]	1445	[illegible]	[illegible]	1512	[illegible]	1655	[illegible]	1720	1755	1825
JUL	[illegible]	[illegible]	.38	[illegible]	[illegible]	.70*	[illegible]	[illegible]	[illegible]	[illegible]	.95*	[illegible]
DATE	31	[illegible]	23	[illegible]	23	23	[illegible]	23	[illegible]	[illegible]	23	23
TIME	[illegible]	1317	1324	1329	1339	1354	1400	1400	1400	[illegible]	[illegible]	1423
AUG	[illegible]	[illegible]	.55	.59*	[illegible]	[illegible]	.70	[illegible]	.82	.83	.83	.83
DATE	[illegible]	01	[illegible]	[illegible]	[illegible]	01	01	01	01	[illegible]	01	[illegible]
TIME	[illegible]	[illegible]	1255	1255	[illegible]	1315	1330	1350	[illegible]	1428	1500	1530
SEP	[illegible]	[illegible]	[illegible]	.05	.05	[illegible]	[illegible]	[illegible]	.05	.05	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11	11
TIME	1135	1140	[illegible]	1150	[illegible]	1215	1230	[illegible]	1310	[illegible]	1400	[illegible]
OCT	[illegible]	[illegible]	[illegible]	.04	.06	.08	.10	.12	.13	.15	[illegible]	.19
DATE	[illegible]	23	23	[illegible]	[illegible]	23	23	[illegible]	23	23	[illegible]	23
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1212	[illegible]	1210	[illegible]	[illegible]	[illegible]	1330	1408
NOV	[illegible]	.05	.06	[illegible]	.08	.11	[illegible]	.16	[illegible]	.21	.23	.24
DATE	[illegible]	[illegible]	09	09	[illegible]	09	09	9	09	09	[illegible]	09
TIME	0718	[illegible]	[illegible]	[illegible]	0718	[illegible]	0756	0815	[illegible]	[illegible]	[illegible]	[illegible]
DEC	T	T	T	T	.01	[illegible]	.01	.01	.01	[illegible]	[illegible]	.01
DATE					[illegible]	31	31	31	31	31	[illegible]	31
TIME					[illegible]	[illegible]	1730	1730	[illegible]	[illegible]	[illegible]	[illegible]
YEAR	[illegible]	[illegible]	.55	.59*	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.95
MONTH	09	08	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

DENVER, COLORADO

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	.02	.02	.03	.04	.05	[illegible]	[illegible]	[illegible]	[illegible]	.11
DATE	21	[illegible]	[illegible]	[illegible]	[illegible]	21	21	21	21	21	[illegible]	21
TIME	0313	[illegible]	0313	[illegible]	0315	0230	0245	0305	0325	0345	[illegible]	0445
FEB	[illegible]	[illegible]	.02	[illegible]	.03	.04	.06	[illegible]	.07	.07	[illegible]	.07
DATE	[illegible]	[illegible]	[illegible]	15	[illegible]	05	15	15	15	15	15	[illegible]
TIME	[illegible]	2250	[illegible]	2150	2200	2210	[illegible]	2245	2305	2355	2355	2355
MAR	.03	.04	[illegible]	.05	.07	[illegible]	[illegible]	[illegible]	.16	.18	.20	.22
DATE	26	26	[illegible]	[illegible]	[illegible]	31	26	[illegible]	26	[illegible]	[illegible]	31
TIME	1822	[illegible]	0645	[illegible]	1840	1840	1833	1855	1915	1932	2002	2040
APR	M	M	M	M	M	M	M	M	M	M	M	M
DATE												
TIME												
MAY	.10	[illegible]	.17	.17	[illegible]	[illegible]	.18	.20	.23	.25	.28	.33
DATE	[illegible]	[illegible]	17	[illegible]	[illegible]	[illegible]	22	[illegible]	29	29	29	29
TIME	1405	1410	[illegible]	1415	[illegible]	1415	2030	[illegible]	0345	0400	0345	0500
JUN	.15	[illegible]	.35	.37	.41	.41	[illegible]	.41	[illegible]	[illegible]	[illegible]	.43
DATE	23	23	23	23	[illegible]	23	23	23	23	[illegible]	23	07
TIME	[illegible]	1432	[illegible]	[illegible]	1453	1453	1453	1453	1453	1453	1453	2326
JUL	[illegible]	[illegible]	.27	.32	.45	.57	[illegible]	.74	.75	.75	.77	.78
DATE	[illegible]	30	07	[illegible]	[illegible]	[illegible]	08	08	[illegible]	09	[illegible]	08
TIME	1335	[illegible]	[illegible]	[illegible]	[illegible]	0005	0020	0040	0105	[illegible]	[illegible]	0200
AUG	.12	[illegible]	[illegible]	[illegible]	.25	[illegible]	[illegible]	[illegible]	[illegible]	.56	.65	[illegible]
DATE	[illegible]	21	[illegible]	[illegible]	21	21	13	13	[illegible]	13	13	[illegible]
TIME	1929	[illegible]	[illegible]	1932	[illegible]	1945	0100	[illegible]	0140	[illegible]	[illegible]	0300
SEP	[illegible]	[illegible]	.05	[illegible]	.06	[illegible]	.07	.08	.08	.08	.08	.08
DATE	10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10	10	10	[illegible]	10
TIME	[illegible]	1541	1545	1550	[illegible]	[illegible]	1635	1640	1640	1640	1640	[illegible]
OCT	.01	.01	.02	.02	.03	.04	.05	.06	.06	.07	[illegible]	[illegible]
DATE	23	23	23	23	23	23	23	23	23	23	23	23
TIME	[illegible]	1045	[illegible]	1531	1045	[illegible]	1135	1145	1145	[illegible]	1235	1300
NOV	[illegible]	.05	[illegible]	[illegible]	[illegible]	.14	.18	.22	.27	.33	.40	.48
DATE	08	[illegible]	08	08	[illegible]	[illegible]	[illegible]	08	[illegible]	08	[illegible]	08
TIME	[illegible]	[illegible]	2327	[illegible]	[illegible]	2345	2355	2355	2355	2355	[illegible]	[illegible]
DEC	.01	[illegible]	[illegible]	.03	[illegible]	.05	.06	.07	[illegible]	.09	.11	.11
DATE	31	31	[illegible]	31	[illegible]	31	31	[illegible]	31	[illegible]	[illegible]	31
TIME	0755	0844	[illegible]	0901	0916	0745	[illegible]	0800	[illegible]	0900	[illegible]	[illegible]
YEAR	.18	.28	.35	[illegible]	.45	.57	.67	.74	.75	[illegible]	[illegible]	[illegible]
MONTH	07	06	[illegible]	[illegible]	[illegible]	07	[illegible]	[illegible]	07	[illegible]	[illegible]	[illegible]

GRAND JUNCTION, COLORADO

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.02	.03	.03	.04	.05	.06	.06	.06	.06	.08	.08	.08
DATE	8	8	08	08	08	08	08	8	08	08	08	08
TIME	1800	[illegible]	1805	1815	1815	1815	1815	1815	[illegible]	1935	1935	1935
FEB	.02	[illegible]	.03	.03	.04	.06	.08	.10	.12	.13	.14	.17
DATE	14	14	14	14	14	14	14	14	14	14	14	14
TIME	0740	0745	0746	0750	0755	[illegible]	0840	0855	0905	0920	0915	0915
MAR	.04	.06	.07	.08	.12	.18	.23	.28	.35	.36	.42	.45
DATE	09	09	09	09	09	26	26	26	26	09	09	09
TIME	[illegible]	0139	0145	0147	[illegible]	[illegible]	2217	2235	2247	0145	0210	0217
APR	.04	.07	.10	.12	.16	.19	.21	.24	.27	.31	.34	.38
DATE	17	17	17	17	17	17	17	17	17	18	18	18
TIME	1900	2345	2345	2345	2345	2345	2345	2345	2345	0015	0015	0030
MAY	.11	.11	.11	.11	.13	.17	.19	.21	.23	.23	.23	.24
DATE	05	05	05	05	28	28	28	28	28	28	28	28
TIME	1740	1740	1740	1740	0315	0330	0345	0405	0425	0445	0515	0545
JUN	.03	.04	.05	.06	.06	.10	.13	.13	.13	.13	.13	.13
DATE	18	18	07	07	07	07	07	07	07	07	07	07
TIME	0535	0540	2040	2045	2040	2100	2100	2100	[illegible]	2100	[illegible]	2100
JUL	.30	.33	.34	.35	.35	.35	.35	.35	.35	.39	[illegible]	.41
DATE	16	16	[illegible]	16	16	16	16	16	16	16	16	16
TIME	1230	1230	1235	1240	1250	1305	1320	[illegible]	1335	[illegible]	0940	[illegible]
AUG	.03	.03	.03	.03	.03	.03	.05	.05	.06	.06	.06	.06
DATE	14	14	14	14	[illegible]	14	14	14	14	14	14	14
TIME	[illegible]	1855	1855	[illegible]	1900	1913	1850	[illegible]	1913	1913	1913	1913
SEP	.04	[illegible]	[illegible]	[illegible]	.08	.09	.09	.09	.09	.09	[illegible]	.09
DATE	10	[illegible]	10	10	10	10	[illegible]	[illegible]	10	10	[illegible]	10
TIME	1037	1037	1043	1046	1059	1110	[illegible]	1120	1148	1148	1148	1148
OCT	.03	.04	.05	.06	[illegible]	.11	.14	.17	.20	.22	.25	.29
DATE	23	23	23	23	23	23	23	23	23	23	23	23
TIME	[illegible]	[illegible]	[illegible]	[illegible]	0055	[illegible]	0100	0100	0100	[illegible]	0100	0150
NOV	[illegible]	.03	.04	.04	[illegible]	.05	[illegible]	[illegible]	.09	.10	.11	.11
DATE	28	28	28	28	28	28	28	28	28	28	28	28
TIME	1215	[illegible]	1215	1215	1215	1215	[illegible]	1215	1215	1220	1230	1245
DEC	.02	.03	.03	[illegible]	.05	.07	.08	.08	.10	.10	.10	.12
DATE	14	14	14	14	14	14	14	14	14	14	14	31
TIME	0317	0323	[illegible]	0317	0320	0322	0337	0355	0415	0430	0505	0245
YEAR	.30	.33	.34	.35	.35	.35	.35	.35	.35	.39	.42	.45
MONTH	[illegible]	[illegible]	07	07	07	07	[illegible]	07	07+	07	03	03

PUEBLO, COLORADO

	5	10	15	20	30	45	60	80	100	120	150	180
JAN		T	T	T	[illegible]	.01	.01	.01	[illegible]	.02	[illegible]	.02
DATE					11+	11+	11+	[illegible]	11+	[illegible]	11+	[illegible]
TIME					[illegible]	[illegible]	1525	1525	1525	1525	1525	2357
FEB	T	T	[illegible]	.02	.03	.04	.05	.05	[illegible]	.06	[illegible]	.07
DATE			04	[illegible]	04	04	04	[illegible]	[illegible]	04	[illegible]	04
TIME			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0830	[illegible]	0830	[illegible]	2225
MAR	T	[illegible]	[illegible]	.01	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.03	.04
DATE		[illegible]	[illegible]	[illegible]	12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12	12
TIME		[illegible]	[illegible]	[illegible]	0100	[illegible]	0100	[illegible]	[illegible]	0100	0100	0100
APR	[illegible]	[illegible]	[illegible]	[illegible]	.07	.09	.13	.16	.19	[illegible]	.23	.23
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8	[illegible]	[illegible]	[illegible]	18
TIME	[illegible]	0025	[illegible]	0025	0025	0025	0025	0025	0025	0025	0025	1515
MAY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.12	.14	.16	[illegible]	.20	.21
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10	11	11	[illegible]	[illegible]	29	29
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0120	[illegible]	1000	1000	1300
JUN	[illegible]	[illegible]	.41	[illegible]	.41	[illegible]	.41	[illegible]	.41	[illegible]	.41	.41
DATE	[illegible]	8	[illegible]	[illegible]	[illegible]	08	[illegible]	[illegible]	[illegible]	08	08	[illegible]
TIME	1702	[illegible]	[illegible]	[illegible]	1728	[illegible]	1728	1728	1728	[illegible]	1728	1728
JUL	.12	[illegible]	.26	.28	.31	[illegible]	[illegible]	.35	.43	[illegible]	[illegible]	.57
DATE	[illegible]	23	23	[illegible]	[illegible]	23	[illegible]	[illegible]	[illegible]	09	[illegible]	09
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1502	1517	[illegible]	2157	[illegible]	[illegible]	2317
AUG	[illegible]	.58	.86	[illegible]	1.19	1.23	[illegible]	1.25	1.25	[illegible]	1.25	1.25
DATE	[illegible]	13	[illegible]	[illegible]	13	[illegible]	13	13	[illegible]	[illegible]	[illegible]	[illegible]
TIME	1910	1915	[illegible]	1914	[illegible]	1939	[illegible]	[illegible]	2034	[illegible]	2124	2154
SEP	[illegible]	.04	[illegible]	[illegible]	.04	.04	[illegible]	.04	.04	.04	[illegible]	.04
DATE	[illegible]	10	[illegible]	10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10	10
TIME	2117	[illegible]	[illegible]	2128	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
OCT	[illegible]	[illegible]	[illegible]	.07	[illegible]	.14	[illegible]	.19	[illegible]	[illegible]	.31	.36
DATE	[illegible]	31	31	31	31	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31
TIME	[illegible]	1317	[illegible]	1352	1352	1352	[illegible]	[illegible]	[illegible]	[illegible]	1530	1600
NOV	[illegible]	.03	[illegible]	[illegible]	.08	[illegible]	.12	.13	.15	.17	[illegible]	.19
DATE	[illegible]	[illegible]	09	[illegible]	09	[illegible]	09	[illegible]	[illegible]	[illegible]	09	09
TIME	[illegible]	[illegible]	[illegible]	0923	0933	0948	1003	1023	1043	[illegible]	1128	[illegible]
DEC		T	T	T	.01	.02	.02	.02	.02	[illegible]	[illegible]	.02
DATE					17	[illegible]	17	[illegible]	[illegible]	[illegible]	[illegible]	17
TIME					[illegible]	0500	0500	0500	[illegible]	0500	0500	[illegible]
YEAR	[illegible]	.58	[illegible]	[illegible]	[illegible]	1.23	1.24	1.25	1.25	1.25	[illegible]	1.25
MONTH	08	[illegible]	[illegible]	[illegible]	08	[illegible]	08	[illegible]	[illegible]	[illegible]	[illegible]	08

BRIDGEPORT, CONNECTICUT

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	.10	.12	.13	[illegible]	.17	.21	.25	.27	.30	.35
DATE	[illegible]	18	[illegible]	[illegible]	18	[illegible]	18	18	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	1513	[illegible]	1508	1543	1558	1538	[illegible]	[illegible]	0631	0701
FEB	.05	.06	.07	[illegible]	.10	.15	.20	.27	.32	.35	.39	.50
DATE	24	24	24	24	12	12	[illegible]	[illegible]	12	12	14	12
TIME	1125	1125	1125	1125	1050	[illegible]	1050	1050	1050	1050	[illegible]	1050
MAR	.03	.05	.06	[illegible]	[illegible]	.13	.18	.22	.27	.32	.35	.39
DATE	12	12	[illegible]	12	[illegible]	12	12	30	30	30	30	30
TIME	1645	1645	1700	1710	1710	1710	[illegible]	0455	0515	0535	0605	0635
APR	[illegible]	[illegible]	[illegible]	.11	[illegible]	.20	[illegible]	.33	.37	.45	.50	.52
DATE	03	[illegible]	[illegible]	[illegible]	03	03	[illegible]	[illegible]	03	03	03	03
TIME	[illegible]	0845	[illegible]	0850	[illegible]	[illegible]	0845	[illegible]	[illegible]	0900	1245	1245
MAY	.13	[illegible]	.26	.27	.31	.33	.38	.41	.43	.45	.47	.52
DATE	[illegible]	13	13	13	[illegible]	13	13	13	13	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	0403	[illegible]	0420	0437	[illegible]	0440	0450	0440	[illegible]
JUN	.05	.08	.10	.10	.13	.17	.22	.27	.33	.36	.43	.52
DATE	03	03	03	03	[illegible]	[illegible]	[illegible]	[illegible]	01	01	06	06
TIME	0447	0458	0453	[illegible]	[illegible]	[illegible]	0213	0231	0251	0311	[illegible]	0130
JUL	.36	[illegible]	.36	[illegible]	[illegible]	.40	.41	.58	[illegible]	.67	.76	.81
DATE	[illegible]	17	17	[illegible]	[illegible]	13	[illegible]	[illegible]	12	[illegible]	[illegible]	12
TIME	[illegible]	0800	0800	[illegible]	1530	1510	0255	[illegible]	0310	0310	0310	0310
AUG	.10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.30	.30	.30	.30	.30
DATE	04	04	04	[illegible]	[illegible]	[illegible]	04	30	30	30	[illegible]	30
TIME	0119	[illegible]	[illegible]	0119	0119	[illegible]	0119	0701	0701	0701	0701	[illegible]
SEP	.13	[illegible]	[illegible]	[illegible]	.27	.30	.34	.41	.46	[illegible]	.50	.51
DATE	26	12	12	26	26	[illegible]	[illegible]	[illegible]	21	21	21	12
TIME	1512	1625	1630	1515	1525	0700	1645	1318	[illegible]	1355	[illegible]	1843
OCT	.40	.55	[illegible]	.72	[illegible]	.80	.85	.90	.98	.98	1.05	1.07
DATE	18	18	18	18	[illegible]	18	18	18	18	18	18	18
TIME	0945	[illegible]	[illegible]	[illegible]	0959	0959	1025	1040	1108	1108	1108	1108
NOV	.19	.24	[illegible]	.30	[illegible]	[illegible]	.68	[illegible]	.76	.85	.93	.98
DATE	27	27	27	27	27	27	[illegible]	[illegible]	27	12	[illegible]	12
TIME	0610	[illegible]	[illegible]	[illegible]	0835	[illegible]	0850	[illegible]	0850	[illegible]	2315	2315
DEC	.08	[illegible]	[illegible]	.15	.18	[illegible]	.24	[illegible]	.28	.34	.40	.48
DATE	09	9	09	09	[illegible]	[illegible]	09	[illegible]	[illegible]	[illegible]	26	26
TIME	2147	[illegible]	[illegible]	[illegible]	2212	[illegible]	2242	[illegible]	1000	[illegible]	[illegible]	1110
YEAR	[illegible]	.55	.60	.72	.80	.80	.85	[illegible]	.98	.98	1.05	1.07
MONTH	[illegible]	10	10	[illegible]	10	[illegible]	10	10	10	[illegible]	10	[illegible]

HARTFORD, CONNECTICUT

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	[illegible]	.08	.12	.16	[illegible]	.24	.28	.32	.34	.37
DATE	7	7	18	18	18	18	18	18	18	18	18	18
TIME	1645	[illegible]	1630	1603	1615	1630	1645	1700	1645	1700	[illegible]	1700
FEB	.05	.07	.08	.09	.11	.15	.17	.18	.20	.20	.23	.25
DATE	24	24	24	24	24	17	17	17	24	24+	24	24
TIME	1229	1232	1236	1243	1252	2300	[illegible]	[illegible]	0217	0217	0217	0217
MAR	.05	.10	.14	.16	.26	.35	.44	.51	.55	.57	.60	.60
DATE	20	20	20	20	20	20	20	20	20	20	20	20
TIME	0114	0117	0117	0115	0143	[illegible]	0213	0229	0247	0313	0343	0413
APR	.09	.14	.19	.23	.32	.42	.53	.60	.78	.92	1.14	1.25
DATE	03	03	03	03	03	03	03	03	03	03	03	03
TIME	1132	1140	1155	1200	[illegible]	1212	1220	1235	1200	1217	1217	1215
MAY	.18	.34	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38
DATE	24	24	24	24	24	24	24	24	24	24	24	24
TIME	1455	1455	1458	1458	1458	1458	1455	1458	1458	1458	1458	1498
JUN	.20	.30	.30	.33	.34	.35	.37	.37	.40	.44	.50	.53
DATE	29	29	29	29	29	29	29	29	05	05	29	29
TIME	1502	1505	1507	1515	1525	1537	1553	1613	0700	0700	1725	1757
JUL	.35	.62	.75	.92	1.42	1.56	1.61	1.67	1.72	1.73	1.74	1.75
DATE	14	14	14	14	14	14	14	14	14	14	14	14
TIME	0435	0438	0444	0444	0444	0448	0504	0524	0544	0604	0634	0704
AUG	.16	.24	.31	.35	.40	[illegible]	.40	.40	.44	.50	.60	.67
DATE	03	03	03	03	03	03	03	03	06	06	30	30
TIME	1955	1956	1955	1958	1958	1954	1958	1958	2320	2330	[illegible]	0412
SEP	.20	.36	.48	.60	.75	1.02	1.20	1.27	1.30	1.36	1.38	1.44
DATE	26	26	26	26	26	26	26	26	26	26	26	26
TIME	1620	1625	1630	1635	1645	[illegible]	1715	1735	1755	1755	1725	1845
OCT	.07	.14	.16	.19	.25	.29	.30	.41	.45	.54	.60	.63
DATE	25	25	25	25	11	11	11	11	11	11	11	11
TIME	0835	0835	0835	0835	1650	1650	1650	1650	1720	1740	1810	1815
NOV	.07	.08	.11	.12	.18	.26	.36	.47	.52	.55	.72	.78
DATE	12	12	10	10	12	12	[illegible]	12	12	12	12	12
TIME	2100	2100	1908	1900	[illegible]	2140	2155	2220	2235	2252	2217	2230
DEC	.05	.10	[illegible]	[illegible]	.13	.15	.21	.24	.34	.40	.46	.57
DATE	10	10	10	10	10	26	26	26	26	26	26	26
TIME	0545	0545	0545	0545	0545	1215	1215	1215	1215	1215	1215	1215
YEAR	.35	.62	.75	.92	1.42	1.56	1.61	1.67	1.72	1.73	1.74	1.75
MONTH	07	07	07	07	07	07	07	07	07	07	07	07

WILMINGTON, DELAWARE

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	[illegible]	.10	[illegible]	[illegible]	[illegible]	.31	.37	.46	.52	.59
DATE	[illegible]	[illegible]	[illegible]	13	[illegible]	18	18	[illegible]	[illegible]	[illegible]	[illegible]	18
TIME	[illegible]	[illegible]	[illegible]	0315	0315	1445	1501	[illegible]	1516	1500	[illegible]	1517
FEB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.29	[illegible]	[illegible]	.55	.58	.63	.68
DATE	[illegible]	[illegible]	23	[illegible]	[illegible]	23	23	23	23	23	23	23
TIME	[illegible]	[illegible]	0845	0945	[illegible]	0900	0915	[illegible]	[illegible]	1015	1045	[illegible]
MAR	[illegible]	[illegible]	[illegible]	[illegible]	.26	.34	[illegible]	.46	.49	[illegible]	[illegible]	.63
DATE	[illegible]	[illegible]	[illegible]	[illegible]	19	19	[illegible]	19	[illegible]	[illegible]	[illegible]	19
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2003	2023	2046	[illegible]	1400
APR	[illegible]	[illegible]	.15	[illegible]	.22	[illegible]	.44	.51	[illegible]	.65	.77	.86
DATE	[illegible]	24	[illegible]	[illegible]	[illegible]	25	25	25	25	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1846	1915
MAY	.28	.37	.40	.42	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.59	[illegible]	.67
DATE	[illegible]	13	[illegible]	[illegible]	[illegible]	[illegible]	13	[illegible]	[illegible]	[illegible]	[illegible]	13
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0100	0100	0955	[illegible]	0100
JUN	[illegible]	.40	[illegible]	[illegible]	.72	[illegible]	.73	[illegible]	[illegible]	[illegible]	[illegible]	1.77
DATE	[illegible]	[illegible]	[illegible]	[illegible]	05	05	05	05	05	05	[illegible]	05
TIME	[illegible]	1920	[illegible]	[illegible]	[illegible]	[illegible]	2046	2140	2140	2140	[illegible]	2140
JUL	[illegible]	[illegible]	[illegible]	[illegible]	.75	.84	.93	1.02	[illegible]	[illegible]	[illegible]	1.40
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13	[illegible]	13	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	0145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0205	[illegible]	[illegible]
AUG	[illegible]	.32	.34	.37	.52	[illegible]	.70	[illegible]	.87	[illegible]	1.02	1.27
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0640	[illegible]	[illegible]	[illegible]	0635
SEP	[illegible]	[illegible]	[illegible]	[illegible]	1.12	1.19	1.22	1.25	1.25	1.25	[illegible]	1.25
DATE	[illegible]	12	[illegible]	12	[illegible]	[illegible]	12	12	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1645	[illegible]	1655	1655	1655	1655
OCT	.14	.28	.42	[illegible]	[illegible]	[illegible]	[illegible]	1.02	[illegible]	1.07	[illegible]	1.12
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	09	[illegible]	[illegible]
TIME	1335	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0405	0405	[illegible]	0405	[illegible]	[illegible]
NOV	[illegible]	[illegible]	[illegible]	.15	[illegible]	.18	.23	[illegible]	[illegible]	[illegible]	[illegible]	.50
DATE	08	[illegible]	[illegible]	[illegible]	08	08	08	[illegible]	[illegible]	17	[illegible]	[illegible]
TIME	[illegible]	[illegible]	0314	[illegible]	[illegible]	0332	[illegible]	2115	[illegible]	[illegible]	[illegible]	2115
DEC	[illegible]	[illegible]	[illegible]	[illegible]	.15	[illegible]	.25	.28	.32	[illegible]	[illegible]	.51
DATE	[illegible]	[illegible]	[illegible]	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31	[illegible]	31
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2343	2345	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
YEAR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.19	1.22	1.25	[illegible]	[illegible]	[illegible]	1.77
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	09	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

APALACHICOLA, FLORIDA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	[illegible]	.99	[illegible]	1.10	1.12	1.14	[illegible]	1.16	[illegible]	1.17
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11	11	11	11	11	[illegible]	11
TIME	[illegible]	0134	[illegible]	0138	[illegible]	0158	0212	0233	0253	0313	0343	[illegible]
FEB	.22	[illegible]	.46	[illegible]	[illegible]	1.05	1.13	[illegible]	1.48	[illegible]	1.49	1.49
DATE	17	17	17	17	17	17	[illegible]	17	[illegible]	17	17	17
TIME	[illegible]	1942	1921	[illegible]	[illegible]	1947	1952	2012	2032	[illegible]	[illegible]	2033
MAR	[illegible]	.24	.36	[illegible]	.43	[illegible]	.60	.65	.81	[illegible]	1.08	[illegible]
DATE	[illegible]	18	[illegible]	[illegible]	18	[illegible]	[illegible]	18	[illegible]	[illegible]	18	18
TIME	[illegible]	1604	[illegible]	1604	1605	1605	1636	1636	1719	1741	1751	1826
APR	[illegible]	[illegible]	[illegible]	[illegible]	1.03	1.23	1.36	1.46	1.50	1.53	1.56	1.56
DATE	[illegible]	14	14	14	[illegible]	14	[illegible]	[illegible]	[illegible]	[illegible]	14	[illegible]
TIME	2043	[illegible]	[illegible]	2049	2046	[illegible]	2103	2110	2120	[illegible]	[illegible]	[illegible]
MAY	.20	.36	.47	[illegible]	.51	.51	.51	[illegible]	.51	.51	[illegible]	.78
DATE	15	15	[illegible]	[illegible]	15	15	15	15	15	15	15	[illegible]
TIME	0729	[illegible]	[illegible]	[illegible]	0753	0743	0743	0743	0743	[illegible]	1518	[illegible]
JUN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.13	1.15	1.18	1.25	[illegible]	1.27
DATE	07	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	07	07	[illegible]	07	[illegible]	07
TIME	[illegible]	[illegible]	[illegible]	0953	[illegible]	1010	1025	1045	[illegible]	[illegible]	1128	1128
JUL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.87	1.16	1.44	[illegible]	[illegible]	[illegible]	2.87
DATE	[illegible]	[illegible]	[illegible]	30	30	[illegible]	30	[illegible]	30	30	30	30
TIME	1028	[illegible]	[illegible]	1043	1014	[illegible]	[illegible]	[illegible]	1427	1419	[illegible]	[illegible]
AUG	.27	.37	.47	.51	.73	.87	.93	.93	.93	.93	.93	.93
DATE	03	[illegible]	[illegible]	[illegible]	05	05	05	05	[illegible]	05	05	[illegible]
TIME	0742	0746	[illegible]	0755	[illegible]	[illegible]	0913	0913	0913	0913	[illegible]	0913
SEP	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.85	[illegible]	1.06	1.10	1.10	1.10	1.10
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	08
TIME	[illegible]	1258	1303	1307	1317	1313	[illegible]	[illegible]	[illegible]	1342	1342	1342
OCT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.83	.86	.87	[illegible]	[illegible]	1.26	[illegible]
DATE	[illegible]	17	[illegible]	[illegible]	[illegible]	01	[illegible]	[illegible]	[illegible]	[illegible]	01	01
TIME	[illegible]	[illegible]	1045	1050	1403	[illegible]	1105	1454	1514	1534	[illegible]	1534
NOV	[illegible]	[illegible]	[illegible]	.73	1.06	1.13	1.17	[illegible]	1.28	[illegible]	1.29	1.32
DATE	[illegible]	12	[illegible]	12	[illegible]	[illegible]	[illegible]	12	[illegible]	12	[illegible]	[illegible]
TIME	[illegible]	1837	[illegible]	[illegible]	1210	1210	[illegible]	1222	[illegible]	1230	[illegible]	1321
DEC	[illegible]	[illegible]	[illegible]	.56	[illegible]	[illegible]	[illegible]	1.06	[illegible]	[illegible]	1.29	1.32
DATE	[illegible]	30	[illegible]	[illegible]	[illegible]	30	[illegible]	30	30	[illegible]	[illegible]	30
TIME	1509	[illegible]	1511	[illegible]	1519	1515	1521	1545	[illegible]	1555	1549	[illegible]
YEAR	.40	[illegible]	[illegible]	.99	1.08	[illegible]	1.36	[illegible]	1.88	[illegible]	[illegible]	2.87
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	04	[illegible]	07	[illegible]	[illegible]	07

DAYTONA BEACH, FLORIDA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.10	.20	.25	.31	.40	.41	.41	.41	.41	.41	.41	.41
DATE	06	06	06	06	06	06	06	06	06	06	06	06
TIME	0212	0217	0217	0217	0225	0225	0230	0245	0310	0315	0315	0315
FEB	.18	.24	.31	.37	.44	.46	.54	.60	.68	.69	.70	.70
DATE	04	04	06	06	04	04	06	06	06	06	06	06
TIME	2345	2303	1734	1739	2310	2325	1745	1805	1830	1845	1855	1925
MAR	.22	.25	.29	.38	.52	.71	.73	.74	.75	.76	.76	.76
DATE	19	19	19	19	19	19	19	19	19	19	19	19
TIME	0155	0200	0220	0225	0225	0240	0255	0315	0335	0355	0403	0442
APR	* .76*	1.00	1.18	1.30	1.46	1.57	1.64	1.67	1.70	1.72	1.72	1.74
DATE	11	11	11	11	11	11	11	11	11	11	11	11
TIME	[illegible]	1032	1034	1034	1042	1055	1100	1120	1120	1120	1120	1120
MAY	.25	.45	.52	.58	.63	.64	.64	.64	.64	.64	.64	.64
DATE	31	31	31	31	31	31	31	31	31	31	31	31
TIME	1910	1915	1920	1925	1935	1950	2043	2043	2043	2043	2043	2043
JUN	.36	.68	.86	1.05	1.39	[illegible]	1.42	1.44	1.44	1.44	1.44	1.44
DATE	16	16	16	16	16	16	16	16	16	16	16	16
TIME	1532	1537	1543	1535	1545	1550	1607	1630	1630	1630	1630	1630
JUL	.35	.55	.60	.65	.71	.75	1.00	1.53	1.56	1.56	1.56	1.56
DATE	17	17	11	11	11	11	08	08	08	08	08	08
TIME	0801	[illegible]	1419	1424	1434	1449	1705	1725	1745	1755	1755	1755
AUG	.30	.44	.52	.60	.67	.70	.83	.84	.85	.96	.96	1.02
DATE	04	04	04	04	[illegible]	[illegible]	09	09	09	09	09	09
TIME	[illegible]	1456	[illegible]	1506	1516	1531	1310	1310	1310	1312	1325	1325
SEP	.35	.70	.95	1.15	1.46	1.80	2.17	2.35	2.42	2.47	2.50	2.55
DATE	13	13	13	13	13	13	13	13	13	13	13	13
TIME	2050	2055	[illegible]	[illegible]	2100	2056	2108	2128	2148	2208	2238	2308
OCT	.28	.40	[illegible]	.48	.48	.48	.48	.50	.50	[illegible]	.71	.90
DATE	02	02	02	[illegible]	02	02	02	24	24	[illegible]	24	24
TIME	1936	[illegible]	[illegible]	1948	1958	[illegible]	2002	2024	2044	0400	1947	2020
NOV	.22	.32	[illegible]	.43	.47	.47	.59	.67	.78	.82	.86	.86
DATE	13	13	13	13	[illegible]	13	13	13	[illegible]	[illegible]	13	13
TIME	0234	0238	0241	0246	[illegible]	0311	0326	0346	0406	0426	0456	0515
DEC	.09	[illegible]	.16	.19	.21	.21	.22	.22	.22	.24	.26	.26
DATE	26	[illegible]	26	26	26	26	26	26	26	[illegible]	[illegible]	26
TIME	0610	[illegible]	[illegible]	0625	0635	0650	0705	0725	0745	[illegible]	0835	0905
YEAR	* .76*	[illegible]	1.18	1.30	1.46	1.80	2.17	2.35	2.42	2.47	2.50	2.55
MONTH	04	04	04	04	[illegible]	09	09	09	09	09	09	09

MAXIMUM SHORT DURATION PRECIPITATION

FORT MYERS, FLORIDA

JAN	.12	.13	[illegible]	.15	.15	.15	.15	.16	[illegible]	[illegible]	[illegible]	[illegible]
DATE	13	13	13	[illegible]	13	13	13	13	[illegible]	[illegible]	13	13
TIME	[illegible]	[illegible]	0400	0402	0412	[illegible]	0440	0500	[illegible]	0540	[illegible]	[illegible]
FEB	[illegible]	[illegible]	[illegible]	.05	.06	.07	.09	.09	.09	.10	.11	.11
DATE	[illegible]	[illegible]	[illegible]	[illegible]	24	[illegible]	24	[illegible]	24	24	[illegible]	24
TIME	[illegible]	[illegible]	2110	2115	[illegible]	[illegible]	1925	1945	[illegible]	2025	2045	2045
MAR	.23	.30	.30	.50	.70	[illegible]	.93	1.09	1.19	1.20	1.20	1.20
DATE	[illegible]	05	05	05	05	[illegible]	05	05	[illegible]	05	05	05
TIME	[illegible]	[illegible]	0348	0340	0352	[illegible]	0408	0439	[illegible]	0500	0500	0500
APR	.23	[illegible]	.25	.25	.25	.25	.25	.27	[illegible]	.27	.27	.27
DATE	11	11	11	11	[illegible]	11	11	30	[illegible]	30	[illegible]	30
TIME	1835	[illegible]	1840	1835	1840	1835	1840	2300	2300	[illegible]	[illegible]	2300
MAY	.28	[illegible]	.45	.57	.72	.75	.78	.91	1.00	1.05	1.08	1.08
DATE	[illegible]	28	28	28	28	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10
TIME	[illegible]	[illegible]	1710	[illegible]	1725	1728	1352	1412	1432	1452	1515	[illegible]
JUN	[illegible]	1.59	[illegible]	1.85	2.95	3.50	[illegible]	3.70	[illegible]	3.71	[illegible]	3.74
DATE	[illegible]	[illegible]	30	[illegible]	[illegible]	[illegible]	30	[illegible]	[illegible]	[illegible]	30	30
TIME	[illegible]	1843	[illegible]	1850	1910	[illegible]	[illegible]	1940	1945	1945	2055	
JUL	.57	[illegible]	1.00	1.08	1.27	[illegible]	1.67	2.12	2.27	2.32	2.35	2.42
DATE	[illegible]	18	[illegible]	18	18	18	12	12	12	[illegible]	12	12
TIME	[illegible]	1607	[illegible]	1605	[illegible]	[illegible]	[illegible]	0055	0110	0130	0200	0130
AUG	[illegible]	[illegible]	.90	1.20	[illegible]	[illegible]	2.00	2.00	2.00	2.00	2.00	2.00
DATE	05	05	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	05	[illegible]	05	05	05
TIME	[illegible]	1704	[illegible]	1718	1718	1733	[illegible]	1740	1740	1740	[illegible]	1740
SEP	M	M	M	M	M	M	M	M	M	M	M	M
DATE												
TIME												
OCT	.57	[illegible]	.87	[illegible]	.90	[illegible]	.90	.90	[illegible]	.90	.90	.90
DATE	29	29	29	29	29	29	29	[illegible]	[illegible]	29	27	29
TIME	[illegible]	[illegible]	1710	[illegible]	1725	1725	1725	1725	[illegible]	1725	[illegible]	[illegible]
NOV	[illegible]	[illegible]	[illegible]	[illegible]	.15	.15	.15	[illegible]	[illegible]	[illegible]	.26	.26
DATE	04	04	04	04	04	04	[illegible]	[illegible]	[illegible]	[illegible]	04	04
TIME	[illegible]	[illegible]	[illegible]	1355	1405	1405	1405	1405	1405	[illegible]	1405	1405
DEC	.22	.29	.27	.28	.32	.33	.35	[illegible]	[illegible]	.37	.38	.38
DATE	[illegible]	[illegible]	[illegible]	31	31	31	[illegible]	31	[illegible]	[illegible]	31	[illegible]
TIME	[illegible]	1509	1510	1515	1510	1525	1542	1600	1603	1603	1713	1713
YEAR	.90	[illegible]	1.60	[illegible]	[illegible]	3.50	[illegible]	3.70	3.71	[illegible]	[illegible]	3.74
MONTH	[illegible]	[illegible]	06	06	[illegible]	[illegible]	06	[illegible]	[illegible]	[illegible]	06	06

MIAMI, FLORIDA

JAN	.25	.37	.43	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.47	[illegible]	[illegible]	.47
DATE	17	17	[illegible]	[illegible]	[illegible]	17	[illegible]	[illegible]	17	[illegible]	[illegible]	17
TIME	[illegible]	[illegible]	[illegible]	2328	2356	2357	2357	[illegible]	2357	2357	2351	2357
FEB	[illegible]	[illegible]	.30	.32	.40	.41	.55	.55	.55	[illegible]	.55	.55
DATE	20	[illegible]	24	[illegible]	24	[illegible]	24	[illegible]	24	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	2000	[illegible]	2015	2015	2016	[illegible]	[illegible]	2052	2056	2052
MAR	.41	[illegible]	.43	.43	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	15	15	15	[illegible]	15	15	[illegible]	15	[illegible]	15	15
TIME	[illegible]	[illegible]	[illegible]	1752	1802	[illegible]	[illegible]	1850	1912	[illegible]	2002	[illegible]
APR	.08	.15	.23	.25	[illegible]	.26	.26	.26	[illegible]	[illegible]	[illegible]	.26
DATE	[illegible]	22	[illegible]	22	22	[illegible]	[illegible]	22	[illegible]	22	[illegible]	22
TIME	[illegible]	[illegible]	1230	1235	1238	[illegible]	[illegible]	[illegible]	[illegible]	1238	1238	1238
MAY	.30	[illegible]	.60	.65	[illegible]	[illegible]	[illegible]	.82	.82	.82	[illegible]	.82
DATE	06	06	[illegible]	06	06	06	[illegible]	[illegible]	[illegible]	06	[illegible]	06
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1655	1710	[illegible]	[illegible]	1755	[illegible]	[illegible]	1915
JUN	.45	.60	.90	1.00	1.10	1.28	[illegible]	1.32	[illegible]	1.34	1.34	1.34
DATE	[illegible]	22	[illegible]	[illegible]	22	[illegible]	[illegible]	[illegible]	[illegible]	22	[illegible]	28
TIME	[illegible]	[illegible]	1235	1240	[illegible]	1455	1500	[illegible]	[illegible]	1345	1400	[illegible]
JUL	.45	.70	[illegible]	1.34	1.67	1.78	[illegible]	1.84	[illegible]	1.85	1.85	1.85
DATE	04	[illegible]	04	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	04	04
TIME	[illegible]	1430	1430	1435	1438	[illegible]	1508	[illegible]	[illegible]	[illegible]	1530	1600
AUG	.35	.55	.80	[illegible]	1.07	1.12	[illegible]	1.19	1.20	1.20	1.20	1.20
DATE	[illegible]	19	19	19	[illegible]	[illegible]	13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	1243	1215	1217	1217	[illegible]	1247	1307	[illegible]	1407
SEP	.60	[illegible]	[illegible]	.75	.88	.89	[illegible]	[illegible]	[illegible]	.99	[illegible]	1.03
DATE	24	24	[illegible]	24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	25	25
TIME	1303	[illegible]	1313	[illegible]	1328	1343	[illegible]	[illegible]	[illegible]	1458	1958	2028
OCT	.55	[illegible]	.78	.85	1.08	[illegible]	1.41	1.43	1.45	1.46	[illegible]	1.47
DATE	22	22	[illegible]	[illegible]	22	[illegible]	[illegible]	[illegible]	22	[illegible]	22	22
TIME	[illegible]	[illegible]	[illegible]	0935	0945	1000	1015	[illegible]	[illegible]	1115	1145	[illegible]
NOV	.25	.33	.48	[illegible]	.60	.75	.80	.91	[illegible]	1.00	1.12	1.13
DATE	[illegible]	19	19	19	[illegible]	19	[illegible]	19	19	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	1906	[illegible]	1931	1946	2006	[illegible]	[illegible]	[illegible]	2040
DEC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.10	[illegible]	.10	.10	.10	[illegible]	.13
DATE	[illegible]	[illegible]	[illegible]	07	[illegible]	07	[illegible]	07	[illegible]	07	[illegible]	08
TIME	1940	[illegible]	1943	1943	1943	1943	1943	[illegible]	[illegible]	1943	[illegible]	0545
YEAR	[illegible]	.73	[illegible]	[illegible]	1.67	1.78	[illegible]	[illegible]	[illegible]	1.85	[illegible]	[illegible]
MONTH	[illegible]	09	[illegible]	[illegible]	[illegible]	07	[illegible]	07	07	07	07	[illegible]

TALLAHASSEE, FLORIDA

JAN	[illegible]	[illegible]	[illegible]	1.35	[illegible]	1.77	2.11	2.45	[illegible]	2.54	[illegible]	2.58
DATE	[illegible]	12	[illegible]	12	12	[illegible]	12	[illegible]	[illegible]	12	12	[illegible]
TIME	1850	1852	[illegible]	[illegible]	[illegible]	[illegible]	1940	[illegible]	[illegible]	2020	[illegible]	2100
FEB	.15	.18	.19	.20	[illegible]	.37	.41	.53	.60	[illegible]	[illegible]	.86
DATE	[illegible]	23	23	23	23	23	12	[illegible]	[illegible]	12	[illegible]	12
TIME	[illegible]	[illegible]	[illegible]	2327	2338	[illegible]	0900	0920	[illegible]	0942	0945	1045
MAR	.80	1.19	[illegible]	[illegible]	1.70	1.90	2.05	[illegible]	2.85	[illegible]	[illegible]	3.32
DATE	[illegible]	18	[illegible]	18	18	18	18	18	18	18	[illegible]	[illegible]
TIME	[illegible]	1418	1418	[illegible]	1420	1422	1425	[illegible]	1530	1530	[illegible]	1625
APR	[illegible]	.59	[illegible]	[illegible]	.77	1.03	[illegible]	[illegible]	1.30	[illegible]	1.31	[illegible]
DATE	11	11	[illegible]	11	[illegible]	11	11	[illegible]	[illegible]	[illegible]	[illegible]	11
TIME	0135	0138	0143	0148	[illegible]	[illegible]	[illegible]	0248	0308	0328	[illegible]	0428
MAY	.46	[illegible]	.83	[illegible]	1.35	1.42	[illegible]	1.42	1.42	[illegible]	[illegible]	1.42
DATE	[illegible]	07	[illegible]	07	07	[illegible]	[illegible]	07	07	[illegible]	[illegible]	07
TIME	1303	[illegible]	1528	1533	[illegible]	1553	1613	1615	1615	[illegible]	1615	[illegible]
JUN	.62	[illegible]	[illegible]	[illegible]	1.74	[illegible]	2.10	2.14	[illegible]	2.15	[illegible]	2.15
DATE	21	13	13	13	13	[illegible]	13	[illegible]	[illegible]	13	[illegible]	13
TIME	[illegible]	[illegible]	1733	1738	1748	[illegible]	1818	[illegible]	1858	1908	1908	1908
JUL	[illegible]	.78	.85	1.06	1.24	[illegible]	[illegible]	1.95	[illegible]	[illegible]	2.42	2.62
DATE	[illegible]	[illegible]	[illegible]	[illegible]	07	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	30	30
TIME	[illegible]	[illegible]	1400	1507	[illegible]	[illegible]	[illegible]	1459	0945	1005	1035	1105
AUG	.58	[illegible]	.95	[illegible]	1.12	1.13	1.23	1.24	1.24	1.54	1.65	1.80
DATE	21	21	[illegible]	21	21	21	21	[illegible]	21	20	20	20
TIME	[illegible]	[illegible]	[illegible]	1701	1704	1704	[illegible]	[illegible]	1715	[illegible]	[illegible]	1730
SEP	.45	[illegible]	[illegible]	1.05	1.33	1.36	1.38	[illegible]	1.62	[illegible]	1.63	1.63
DATE	[illegible]	[illegible]	17	[illegible]	17	17	17	17	[illegible]	[illegible]	17	17
TIME	[illegible]	1012	[illegible]	1009	1018	1028	[illegible]	1014	[illegible]	[illegible]	[illegible]	1154
OCT	.35	[illegible]	[illegible]	.53	.62	.75	.90	[illegible]	1.20	1.39	1.55	1.67
DATE	[illegible]	[illegible]	[illegible]	17	[illegible]	17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0610	0620	[illegible]	[illegible]
NOV	.15	.20	.22	.25	.33	.38	[illegible]	.51	[illegible]	.67	.67	[illegible]
DATE	[illegible]	12	[illegible]	[illegible]	12	[illegible]	[illegible]	12	[illegible]	[illegible]	12	[illegible]
TIME	[illegible]	[illegible]	[illegible]	1833	1843	1858	1858	[illegible]	[illegible]	1912	[illegible]	[illegible]
DEC	.40	.53	[illegible]	[illegible]	.86	[illegible]	1.52	1.83	2.27	2.59	2.91	[illegible]
DATE	31	31	[illegible]	31	[illegible]	31	[illegible]	31	31	[illegible]	31	31
TIME	[illegible]	0318	[illegible]	0328	[illegible]	[illegible]	0315	[illegible]	0315	[illegible]	0328	0330
YEAR	[illegible]	1.15	[illegible]	1.65	1.76	[illegible]	2.11	2.45	2.85	3.14	3.23	3.32
MONTH	03	[illegible]	[illegible]	[illegible]	06	06	01	[illegible]	[illegible]	03	[illegible]	[illegible]

MAXIMUM SHORT DURATION PRECIPITATION

Maximum precipitation in inches (5 to 180 minutes)

ATHENS, GEORGIA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	[illegible]	[illegible]	.58	.5[illegible]	[illegible]	.70	[illegible]	.76	.76	.76
DATE	[illegible]	[illegible]	10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	2132	[illegible]	2132	[illegible]	[illegible]	2155	[illegible]	[illegible]	2220
FEB	[illegible]	[illegible]	.34	[illegible]	.48	.52	.55	.57	.57	[illegible]	[illegible]	.72
DATE	24	[illegible]	24	24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24	24	24
TIME	[illegible]	[illegible]	[illegible]	0122	2332	[illegible]	2347	[illegible]	[illegible]	0300	0332	0400
MAR	[illegible]	[illegible]	[illegible]	.85	.98	[illegible]	1.18	[illegible]	1.32	1.36	1.43	1.48
DATE	[illegible]	13	[illegible]	13	[illegible]	13	13	13	[illegible]	13	13	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	0820	0832	[illegible]	[illegible]	[illegible]	0946	1016	1016
APR	[illegible]	[illegible]	[illegible]	.37	[illegible]	[illegible]	.69	.72	[illegible]	[illegible]	.83	.83
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	02	[illegible]	[illegible]	02	[illegible]	02
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1715	1715	1722	[illegible]	1717	1725	1730	[illegible]
MAY	.36	[illegible]	[illegible]	.71	[illegible]	[illegible]	.78	[illegible]	1.34	1.36	1.51	1.58
DATE	[illegible]	[illegible]	07	[illegible]	[illegible]	[illegible]	07	[illegible]	07	07	07	07
TIME	[illegible]	[illegible]	[illegible]	0845	0858	1020	[illegible]	0950	1013	[illegible]	[illegible]	1131
JUN	.25	[illegible]	.29	[illegible]	[illegible]	.53	.63	.69	.75	.76	.76	.76
DATE	[illegible]	25	25	[illegible]	11	[illegible]	11	[illegible]	[illegible]	[illegible]	11	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1805	[illegible]	1830	[illegible]	1915	1930	1930	[illegible]
JUL	[illegible]	[illegible]	.92	[illegible]	1.08	1.35	1.55	1.60	1.61	1.62	1.63	1.63
DATE	24	24	24	24	24	24	24	24	24	24	24	24
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1845	1905	1930	1945	2015	[illegible]
AUG	[illegible]	[illegible]	[illegible]	.63	[illegible]	1.20	1.48	1.54	1.55	1.56	[illegible]	1.70
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	27	[illegible]	27	27	27	27	27
TIME	[illegible]	[illegible]	1432	1432	1830	[illegible]	1857	1915	1935	[illegible]	2028	2055
SEP	.35	[illegible]	.42	.67	[illegible]	.82	[illegible]	[illegible]	[illegible]	1.33	1.63	1.67
DATE	[illegible]	[illegible]	[illegible]	[illegible]	17	17	[illegible]	[illegible]	[illegible]	[illegible]	17	17
TIME	[illegible]	[illegible]	1350	[illegible]	[illegible]	1030	1045	[illegible]	1125	1200	[illegible]	1220
OCT	[illegible]	[illegible]	.31	.33	.37	[illegible]	.55	.64	.75	.95	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17	[illegible]	17	17	17	17	17
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1000	1115	1115
NOV	[illegible]	[illegible]	[illegible]	.32	.37	[illegible]	[illegible]	[illegible]	.68	.70	[illegible]	.73
DATE	09	[illegible]	[illegible]	09	07	[illegible]	[illegible]	[illegible]	[illegible]	07	07	07
TIME	[illegible]	[illegible]	0831	0836	[illegible]	1353	1358	1410	[illegible]	1414	[illegible]	1428
DEC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.20	[illegible]	[illegible]	[illegible]	.24
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17	17
TIME	[illegible]	[illegible]	1048	1050	[illegible]	1115	[illegible]	[illegible]	1040	1045	[illegible]	1205
YEAR	.52	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.55	1.60	1.61	1.62	1.67	1.70
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	07	07	07	[illegible]	07	07	[illegible]	[illegible]

COLUMBUS, GEORGIA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	.57	[illegible]	[illegible]	[illegible]	.97	1.18	1.19	[illegible]	1.24	[illegible]	1.24
DATE	[illegible]	10	[illegible]	[illegible]	[illegible]	10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10
TIME	[illegible]	[illegible]	[illegible]	1956	[illegible]	[illegible]	[illegible]	2052	[illegible]	2132	2132	[illegible]
FEB	[illegible]	.56	[illegible]	[illegible]	[illegible]	[illegible]	1.08	1.12	[illegible]	[illegible]	1.25	1.32
DATE	[illegible]	23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17	17
TIME	[illegible]	[illegible]	[illegible]	1448	1455	2141	2141	[illegible]	[illegible]	[illegible]	[illegible]	0200
MAR	[illegible]	.57	.63	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.77	1.78	1.79	1.79
DATE	[illegible]	[illegible]	[illegible]	13	[illegible]	[illegible]	[illegible]	13	[illegible]	13	13	13
TIME	[illegible]	[illegible]	[illegible]	2135	2130	2130	2145	2205	2205	2218	2240	[illegible]
APR	.18	[illegible]	[illegible]	[illegible]	.37	.50	[illegible]	[illegible]	.90	.99	1.19	1.46
DATE	[illegible]	[illegible]	29	[illegible]	[illegible]	15	15	15	15	15	15	15
TIME	[illegible]	1257	[illegible]	1307	1317	[illegible]	[illegible]	0440	0510	0530	0600	0630
MAY	[illegible]	[illegible]	[illegible]	.73	.86	.87	.88	.88	[illegible]	[illegible]	[illegible]	.89
DATE	[illegible]	12	12	12	12	12	12	12	16	16	16	16
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1425	[illegible]	1450	1450	1409	[illegible]	1409	1409
JUN	.65	[illegible]	[illegible]	1.65	1.80	1.87	1.88	1.88	[illegible]	1.88	1.88	1.88
DATE	[illegible]	[illegible]	29	[illegible]	[illegible]	29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	1455	[illegible]	[illegible]	1510	[illegible]	[illegible]	[illegible]	1532	[illegible]	1532	1532
JUL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.90	1.04	1.15	1.25	1.29	1.30
DATE	[illegible]	[illegible]	[illegible]	[illegible]	20	20	07	[illegible]	[illegible]	07	07	07
TIME	1945	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0600	0620	[illegible]	0700	[illegible]	[illegible]
AUG	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.72	[illegible]	.88	[illegible]	1.06	1.18
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	06	[illegible]	[illegible]	06	06	[illegible]
TIME	[illegible]	[illegible]	1718	[illegible]	[illegible]	[illegible]	1407	1427	[illegible]	[illegible]	[illegible]	1452
SEP	[illegible]	[illegible]	.49	[illegible]	.54	.54	[illegible]	.54	[illegible]	.54	[illegible]	.70
DATE	[illegible]	22	[illegible]	[illegible]	22	22	[illegible]	[illegible]	22	[illegible]	17	17
TIME	[illegible]	1717	1717	[illegible]	1732	[illegible]	1740	[illegible]	[illegible]	1740	[illegible]	1128
OCT	.23	[illegible]	[illegible]	.80	1.10	[illegible]	[illegible]	[illegible]	1.98	[illegible]	2.24	2.39
DATE	[illegible]	17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17	17	17
TIME	[illegible]	0732	[illegible]	0732	[illegible]	0735	0738	[illegible]	0738	0738	[illegible]	[illegible]
NOV	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.48	.50	.55	[illegible]	.61	.61
DATE	[illegible]	07	07	[illegible]	[illegible]	12	12	[illegible]	12	[illegible]	[illegible]	[illegible]
TIME	1524	[illegible]	[illegible]	1456	1506	1521	[illegible]	[illegible]	1616	1630	[illegible]	[illegible]
DEC	[illegible]	[illegible]	.35	[illegible]	[illegible]	[illegible]	.59	[illegible]	[illegible]	.75	[illegible]	.80
DATE	[illegible]	[illegible]	[illegible]	31	[illegible]	31	[illegible]	31	[illegible]	[illegible]	31	31
TIME	[illegible]	[illegible]	0815	0820	[illegible]	0826	[illegible]	[illegible]	[illegible]	0950	1020	1050
YEAR	.65	[illegible]	1.35	1.65	1.80	1.87	[illegible]	1.88	1.98	[illegible]	2.24	2.39
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10	[illegible]	10

SAVANNAH, GEORGIA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.17	.21	.22	[illegible]	.27	.33	.38	.40	.41	.47	[illegible]	.64
DATE	[illegible]	25	[illegible]	[illegible]	25	[illegible]	25	25	[illegible]	[illegible]	[illegible]	[illegible]
TIME	1318	[illegible]	[illegible]	[illegible]	1341	[illegible]	[illegible]	[illegible]	[illegible]	1720	1733	[illegible]
FEB	.13	[illegible]	[illegible]	[illegible]	[illegible]	.27	.34	[illegible]	.49	[illegible]	[illegible]	.61
DATE	[illegible]	[illegible]	22	[illegible]	24	24	24	[illegible]	24	24	24	24
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1028	[illegible]	[illegible]	1056	1049	1056
MAR	[illegible]	.24	[illegible]	[illegible]	[illegible]	.36	[illegible]	[illegible]	[illegible]	.69	[illegible]	.80
DATE	[illegible]	[illegible]	24	[illegible]	[illegible]	[illegible]	[illegible]	24	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1950	1950	1850	1950	[illegible]	1950	2008	0922
APR	.21	[illegible]	[illegible]	.59	[illegible]	[illegible]	[illegible]	[illegible]	.85	.99	1.20	1.30
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	29	29	14	14	14
TIME	[illegible]	1911	1913	[illegible]	[illegible]	1938	1955	2008	2020	1658	[illegible]	1658
MAY	[illegible]	[illegible]	.90	1.03	1.27	1.40	1.56	1.66	1.78	[illegible]	[illegible]	1.87
DATE	[illegible]	30	[illegible]	[illegible]	16	[illegible]	16	[illegible]	[illegible]	[illegible]	16	[illegible]
TIME	1600	[illegible]	[illegible]	[illegible]	1906	[illegible]	[illegible]	[illegible]	2015	[illegible]	2114	2130
JUN	[illegible]	[illegible]	.50	[illegible]	.72	[illegible]	[illegible]	.97	[illegible]	1.07	1.14	1.20
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19	19	[illegible]
TIME	2316	[illegible]	[illegible]	[illegible]	2334	[illegible]	0003	[illegible]	[illegible]	0104	0131	0203
JUL	.43	[illegible]	[illegible]	[illegible]	[illegible]	1.51	1.56	[illegible]	[illegible]	[illegible]	1.62	1.62
DATE	[illegible]	[illegible]	[illegible]	[illegible]	14	[illegible]	[illegible]	[illegible]	14	14	14	14
TIME	0236	[illegible]	[illegible]	0237	0244	0250	0304	0320	0320	[illegible]	0358	0358
AUG	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.61	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.69
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	28	10	10	[illegible]	28+	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1624	1424	1726	1727	[illegible]	[illegible]	[illegible]	1650
SEP	[illegible]	[illegible]	[illegible]	[illegible]	1.85	2.30	[illegible]	2.46	[illegible]	[illegible]	3.10	3.10
DATE	[illegible]	[illegible]	[illegible]	07	07	07	[illegible]	[illegible]	07	07	[illegible]	07
TIME	[illegible]	[illegible]	[illegible]	1654	[illegible]	1714	1717	1721	[illegible]	[illegible]	1721	1721
OCT	[illegible]	[illegible]	[illegible]	[illegible]	.63	[illegible]	.70	.71	.71	[illegible]	.74	.74
DATE	[illegible]	[illegible]	[illegible]	[illegible]	17	[illegible]	17	17	17	[illegible]	17	17
TIME	[illegible]	[illegible]	1520	[illegible]	1536	1547	1547	1609	[illegible]	[illegible]	1715	[illegible]
NOV	.18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.33	.33	.34	[illegible]	[illegible]	.34
DATE	[illegible]	[illegible]	[illegible]	07	07	07	07	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	0907	[illegible]	0907	0907	[illegible]	1744	[illegible]	[illegible]	1744
DEC	[illegible]	.21	.23	[illegible]	[illegible]	[illegible]	.60	.61	[illegible]	.61	.61	.61
DATE	[illegible]	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1925	[illegible]	1940	1940	1940	[illegible]	1940
YEAR	[illegible]	[illegible]	[illegible]	1.43	1.85	2.30	[illegible]	[illegible]	[illegible]	2.69	3.10	[illegible]
MONTH	[illegible]	07	[illegible]	[illegible]	[illegible]	[illegible]	09	[illegible]	[illegible]	09	09	[illegible]

ATLANTA, GEORGIA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.33	.50	.60	.70	.88	1.16	1.32	1.49	1.56	1.57	1.57	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10	[illegible]	10	10	10	10	10
TIME	1947	1950	1955	2000	2001	2016	2036	2046	2116	2116	[illegible]	[illegible]
FEB	[illegible]	.44	[illegible]	.55	.60	.71	.83	.84	.85	.86	.86	.86
DATE	18	18	18	18	18	18	18	18	18	18	18	18
TIME	0626	[illegible]	[illegible]	0627	[illegible]	0652	0707	0710	0710	0710	0710	0710
MAR	.38	.54	.64	.73	[illegible]	1.17	1.29	1.35	1.38	1.40	1.41	[illegible]
DATE	13	13	13	13	24	24	24	24	24	24	24	24
TIME	0639	[illegible]	0650	[illegible]	[illegible]	0930	0943	1001	[illegible]	1040	1110	1110
APR	[illegible]	.32	.45	[illegible]	.62	[illegible]	[illegible]	.99	1.05	1.13	1.19	1.23
DATE	[illegible]	[illegible]	[illegible]	02	[illegible]	02	02	02	02	02	02	[illegible]
TIME	1541	1548	[illegible]	1550	1552	1553	1553	[illegible]	1553	[illegible]	1553	1553
MAY	.21	[illegible]	.42	[illegible]	[illegible]	.58	.62	.64	.72	.75	[illegible]	.85
DATE	[illegible]	17	[illegible]	[illegible]	03	03	03	03	03	03	[illegible]	[illegible]
TIME	[illegible]	[illegible]	1831	1831	[illegible]	0858	0901	0921	0901	1003	1003	1003
JUN	.33	.55	.55	.64	.76	.82	.82	.82	.82	.82	.82	.84
DATE	[illegible]	[illegible]	[illegible]	10	[illegible]	10	10	10	10	10	10	11
TIME	1535	1537	1537	[illegible]	[illegible]	1851	1851	1851	1851	1851	1851	1825
JUL	[illegible]	.79	[illegible]	1.32	1.66	1.88	1.96	1.99	2.01	2.03	2.06	2.06
DATE	17	17	17	17	17	[illegible]	17	[illegible]	17	17	[illegible]	17
TIME	[illegible]	1804	1805	1810	1818	1833	1840	[illegible]	1840	1840	1850	1854
AUG	.39	.51	.52	.53	[illegible]	.72	.73	.73	.73	.73	.82	.97
DATE	27	27	27	27	27	27	27	27	27	27	[illegible]	06
TIME	1341	1342	1346	[illegible]	1346	1346	1346	1357	1402	1402	1046	1057
SEP	.22	[illegible]	.37	.38	.39	.47	.47	.56	.59	.88	.99	1.00
DATE	18	18	18	18	18	18	18	18	18	18	18	18
TIME	[illegible]	0627	0628	0629	0639	0654	0704	0658	0658	0629	0706	0736
OCT	.18	.27	.32	.37	.37	[illegible]	.56	.67	.84	.98	1.11	1.18
DATE	17	07	07	[illegible]	17	17	17	17	17	17	17	17
TIME	0855	2042	2042	2043	0855	0855	0855	[illegible]	0855	[illegible]	0855	0855
NOV	[illegible]	[illegible]	.42	[illegible]	.56	.68	.75	.79	.80	.88	.89	.92
DATE	07	07	07	12	12	12	12	12	12	12	12	12
TIME	[illegible]	0113	0115	[illegible]	0444	0500	0515	0510	0521	0512	0521	0618
DEC	[illegible]	[illegible]	.19	.21	.25	.33	.35	.40	.41	[illegible]	.49	.51
DATE	30	30	30	30	30	[illegible]	30	31	31	31	31	31
TIME	[illegible]	[illegible]	[illegible]	1938	[illegible]	1958	[illegible]	0052	0052	0111	0111	0111
YEAR	.41	.79	[illegible]	[illegible]	[illegible]	1.88	[illegible]	1.99	[illegible]	2.03	2.06	2.06
MONTH	07	[illegible]	[illegible]	07	07	07	07	[illegible]	07	07	07	07

MACON, GEORGIA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.24	.32	.36	[illegible]	.57	.65	.68	.80	.81	[illegible]	.89	[illegible]
DATE	[illegible]	[illegible]	[illegible]	12	[illegible]	12	[illegible]	[illegible]	[illegible]	12	[illegible]	12
TIME	0730	[illegible]	0734	1357	1403	1406	1411	0046	0052	1522	1552	1622
FEB	.34	[illegible]	.53	.67	[illegible]	.84	.89	.97	[illegible]	1.11	1.26	1.36
DATE	17	[illegible]	[illegible]	17	17	17	17	[illegible]	17	17	17	17
TIME	0247	0259	[illegible]	[illegible]	[illegible]	0312	0328	0347	[illegible]	0427	0458	0528
MAR	[illegible]	.61	[illegible]	[illegible]	.80	1.00	1.09	1.16	[illegible]	1.23	1.26	1.26
DATE	14	14	14	14	14	14	14	14	14	14	14	14
TIME	0000	[illegible]	[illegible]	0005	[illegible]	0005	0012	0032	0032	[illegible]	[illegible]	0035
APR	.14	[illegible]	[illegible]	.25	[illegible]	[illegible]	.39	.48	.55	.63	.78	.91
DATE	30	30	30	30	30	14	14	14	14	14	14	14
TIME	2319	2318	[illegible]	[illegible]	[illegible]	1748	1800	1806	1826	1901	1924	1946
MAY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.97	.97	.97	.97	[illegible]	.98	.98
DATE	[illegible]	[illegible]	[illegible]	30	[illegible]	30	30	[illegible]	16	16	16	16
TIME	[illegible]	[illegible]	1754	1759	[illegible]	[illegible]	1839	1859	[illegible]	1626	[illegible]	1726
JUN	.33	[illegible]	.72	[illegible]	[illegible]	[illegible]	.83	[illegible]	.88	.88	[illegible]	.89
DATE	12	12	12	[illegible]	[illegible]	12	[illegible]	12	[illegible]	12	12	12
TIME	1530	[illegible]	1535	[illegible]	1539	0410	0410	0430	1655	1655	[illegible]	1749
JUL	[illegible]	.37	[illegible]	.61	[illegible]	.71	[illegible]	[illegible]	.71	.71	[illegible]	[illegible]
DATE	08	[illegible]	[illegible]	26	[illegible]	26	[illegible]	[illegible]	[illegible]	[illegible]	26	06
TIME	[illegible]	[illegible]	[illegible]	1500	1515	1524	1524	1524	1524	1524	1645	[illegible]
AUG	.18	[illegible]	.25	.30	.37	[illegible]	.48	[illegible]	.49	.49	.49	.49
DATE	[illegible]	29	[illegible]	[illegible]	29	[illegible]	29	[illegible]	29	29	29	29
TIME	1643	[illegible]	1649	[illegible]	1656	1701	1705	1722	1722	1722	1722	1722
SEP	.45	[illegible]	1.13	[illegible]	[illegible]	1.71	1.86	1.92	[illegible]	1.94	1.97	1.97
DATE	[illegible]	20	[illegible]	[illegible]	20	[illegible]	20	[illegible]	20	20	20	[illegible]
TIME	1753	1755	1749	1800	[illegible]	1815	1827	1847	1907	1927	1957	2027
OCT	.15	.20	.32	.40	[illegible]	.71	.83	1.02	[illegible]	1.06	[illegible]	1.25
DATE	[illegible]	[illegible]	07	[illegible]	[illegible]	[illegible]	07	07	[illegible]	[illegible]	07	[illegible]
TIME	2118	2123	[illegible]	[illegible]	[illegible]	2142	2158	[illegible]	[illegible]	2218	2218	2205
NOV	[illegible]	.35	.45	.50	[illegible]	[illegible]	.74	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	12	12	[illegible]	12	12	[illegible]	12	12	[illegible]	12	12
TIME	1617	[illegible]	1618	[illegible]	[illegible]	1646	1701	1722	1742	1755	1755	1755
DEC	.09	[illegible]	.16	.19	[illegible]	.30	.41	.51	.53	[illegible]	.61	.66
DATE	01	30+	[illegible]	01+	01	[illegible]	01	[illegible]	[illegible]	30	30	30
TIME	[illegible]	[illegible]	0401	0402	0406	0412	[illegible]	[illegible]	[illegible]	[illegible]	0826	[illegible]
YEAR	[illegible]	.81	1.13	[illegible]	1.47	[illegible]	1.86	1.92	1.94	[illegible]	1.97	1.97
MONTH	03	09	[illegible]	[illegible]	09	[illegible]	[illegible]	[illegible]	[illegible]	09	[illegible]	[illegible]

BOISE, IDAHO

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.03	.04	[illegible]	.05	.07	[illegible]	[illegible]	.08	.08	[illegible]	.08	.08
DATE	08	08	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	08	[illegible]	08	[illegible]	10
TIME	[illegible]	[illegible]	[illegible]	2040	[illegible]	2040	2040	[illegible]	2040	2040	2040	0220
FEB	.12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.28	.28	[illegible]	.28	.28	.28
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13	13	13	13	[illegible]	13
TIME	[illegible]	2140	[illegible]	2145	2155	2210	2210	2210	2210	2210	2210	2210
MAR	[illegible]	[illegible]	[illegible]	.12	.15	[illegible]	[illegible]	[illegible]	.16	.16	.16	.16
DATE	01	[illegible]	[illegible]	01	[illegible]	01	01	01	[illegible]	[illegible]	[illegible]	01
TIME	2325	[illegible]	[illegible]	2340	2345	[illegible]	2350	2350	[illegible]	2350	2350	2350
APR	.03	[illegible]	.07	.07	.08	[illegible]	.12	.12	[illegible]	.13	.15	[illegible]
DATE	23	23	23	[illegible]	23	23	23	23	[illegible]	23	23	[illegible]
TIME	1330	1340	[illegible]	1345	1350	[illegible]	1410	1410	[illegible]	1015	1045	0850
MAY	.13	.13	[illegible]	[illegible]	.13	[illegible]	[illegible]	.14	.14	.18	[illegible]	.22
DATE	11	11	11	11	11	11	11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	1405	[illegible]	[illegible]	[illegible]	[illegible]	1405	1400	1400	[illegible]	[illegible]	1400
JUN	.12	[illegible]	[illegible]	.18	.19	[illegible]	[illegible]	[illegible]	.19	.19	[illegible]	.19
DATE	02	02	02	02	02	02	02	02	[illegible]	02	02	02
TIME	1330	[illegible]	1335	[illegible]	1350	1350	1350	1350	[illegible]	1350	1350	1350
JUL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.25	.30	[illegible]	[illegible]	.41
DATE	[illegible]	10	[illegible]	[illegible]	12	[illegible]	[illegible]	[illegible]	12	12	12	[illegible]
TIME	[illegible]	1839	[illegible]	1940	[illegible]	1930	[illegible]	2005	2025	2045	[illegible]	2140
AUG	[illegible]	.20	[illegible]	.24	.24	.24	.24	.24	[illegible]	.24	.25	.25
DATE	[illegible]	23	[illegible]	[illegible]	23	23	[illegible]	23	[illegible]	[illegible]	23	23
TIME	1505	[illegible]	1505	[illegible]	1510	1510	1510	1510	1510	1510	1510	1510
SEP	[illegible]	[illegible]	[illegible]	.01	[illegible]	.01	.01	[illegible]	.01	.01	[illegible]	.01
DATE	[illegible]	16	[illegible]	16	[illegible]	16	16	[illegible]	[illegible]	16	[illegible]	16
TIME	0125	[illegible]	0125	0125	0125	[illegible]	0125	[illegible]	0125	0125	[illegible]	0125
OCT	[illegible]	[illegible]	[illegible]	.07	.10	.14	.18	.23	[illegible]	[illegible]	[illegible]	.33
DATE	06	[illegible]	[illegible]	[illegible]	21	21	21	21	21	21	21	21
TIME	2347	[illegible]	[illegible]	0002	1901	[illegible]	[illegible]	1934	1946	[illegible]	[illegible]	[illegible]
NOV	.03	[illegible]	[illegible]	.08	.09	.09	.09	.09	[illegible]	[illegible]	.11	[illegible]
DATE	[illegible]	26	[illegible]	26	[illegible]	[illegible]	[illegible]	[illegible]	30	[illegible]	30	30
TIME	1415	[illegible]	1425	1430	[illegible]	1440	1440	1440	1840	[illegible]	1900	[illegible]
DEC	.02	.02	[illegible]	[illegible]	.04	.06	.06	.07	.08	.10	.12	.14
DATE	05	05	[illegible]	26	[illegible]	26	26	26	[illegible]	26	[illegible]	[illegible]
TIME	1345	[illegible]	[illegible]	[illegible]	[illegible]	1935	1945	1250	[illegible]	[illegible]	0545	[illegible]
YEAR	.14	[illegible]	[illegible]	.26	[illegible]	.28	.28	.28	[illegible]	[illegible]	.38	.41
MONTH	[illegible]	08	[illegible]	[illegible]	02	02	02	02	[illegible]	07	[illegible]	07

AUGUSTA, GEORGIA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.08	.10	.13	.18	.21	.23	.32	.32	.38	.47	.53	.60
DATE	11	11	11	11	11	11	11	11	11	11	11	12
TIME	0355	[illegible]	0230	0235	0245	0300	0315	0335	0355	0415	0445	1212
FEB	.14	.27	.26	.34	.45	.50	.53	.53	.53	.53	.54	.54
DATE	24	24	12	12	12	12	12	12	12	12	22	22
TIME	0340	0345	0517	0520	0524	0526	0545	0545	0545	0545	0520	0520
MAR	.15	.25	.30	.37	.55	.65	.85	1.07	1.12	1.15	1.20	1.24
DATE	24	24	24	24	24	24	24	24	24	24	24	24
TIME	1350	1337	1301	1347	1350	1350	1350	1410	1430	1445	1515	1545
APR	.32	.35	.36	.38	[illegible]	.63	.67	.95	1.10	1.13	1.17	1.25
DATE	03	03	03	03	03	03	03	03	03	03	03	03
TIME	0011	[illegible]	[illegible]	[illegible]	0014	0020	0041	0100	0139	0123	[illegible]	0242
MAY	.30	.45	.52	.54	.56	.59	.70	.77	.78	.82	.83	.83
DATE	26	26	26	26	26	26	01	01	01	26	26	26
TIME	1920	1928	1930	1935	1945	2000	1755	1815	1830	2115	2130	2130
JUN	[illegible]	.97	.98	1.06	1.37	1.47	1.48	1.48	1.49	1.49	1.49	1.49
DATE	21	21	21	21	21	21	21	21	21	21	21	21
TIME	[illegible]	0054	[illegible]	[illegible]	0113	[illegible]	0143	0203	0223	0243	0250	0250
JUL	.33	.41	.45	.56	.57	.58	.73	.80	.82	.84	.88	.89
DATE	10	10	10	10	10	10	25	25	25	25	25	25
TIME	2203	2203	2203	2207	2217	2230	0058	0110	0147	0147	0220	0245
AUG	[illegible]	.58	.65	.65	.78	.80	.90	1.25	1.42	1.63	1.67	1.68
DATE	10	10	10	10	10	10	10	10	10	10	10	10
TIME	1858	1858	1900	1905	[illegible]	[illegible]	1945	2005	2025	2045	2115	[illegible]
SEP	.76	1.02	1.35	[illegible]	1.97	2.11	2.85	3.92	[illegible]	4.22	4.30	4.30
DATE	20	20	20	20	20	20	20	20	20	20	20	20
TIME	1823	1828	1823	1829	1832	1928	1858	1925	1938	1958	2028	2058
OCT	.09	.16	.17	.19	.23	.24	.25	.26	.28	.29	.30	.31
DATE	17	17	17	17	17	17	17	17	17	17	17	17
TIME	0455	[illegible]	0455	0455	0455	0502	0515	0520	1230	1248	1315	1330
NOV	.35	[illegible]	[illegible]	.50	.53	.54	.58	.70	.73	.85	.95	.96
DATE	12	12	12	12	12	12	12	12	12	12	12	12
TIME	[illegible]	1800	1800	1805	1817	1832	1846	1905	1925	1948	2015	2046
DEC	.35	[illegible]	.50	.57	[illegible]	.64	.65	.65	.65	.65	.65	.65
DATE	31	31	31	31	31	31	31	31	31	31	31	31
TIME	1216	1221	[illegible]	1221	1223	[illegible]	[illegible]	1315	1333	1410	1415	1415
YEAR	.76	1.02	1.35	1.50	1.97	2.11	2.85	3.92	[illegible]	4.22	4.30	4.30
MONTH	09	09	09	09	09	09	09	09	09	09	09	09

ROME, GEORGIA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.30	[illegible]	.43	.45	.50	.60	.65	[illegible]	.78	.90	.95	.97
DATE	25	25	25	25	25	25	25	25	25	25	25	25
TIME	0535	0535	0540	0535	0530	0535	0535	0535	[illegible]	0615	0645	0720
FEB	.18	.27	.26	.27	.30	.31	.42	.48	.50	.65	.80	.80
DATE	12	12	12	12	12	12	12	12	12	12	12	12
TIME	0240	[illegible]	0250	0255	0308	0320	[illegible]	0155	0220	0246	0308	0330
MAR	.28	.55	[illegible]	.65	.70	1.20	1.25	1.35	1.46	1.60	1.72	1.85
DATE	29	13	13	13	13	13	13	13	13	13	13	13
TIME	1000	1810	1815	1820	1820	1835	1835	1850	1935	[illegible]	1930	2000
APR	.13	.20	.22	.24	[illegible]	.33	.43	.47	.53	.54	.54	.54
DATE	09	09	09	09	09	09	09	09	09	09	09	09
TIME	1435	1440	1445	[illegible]	[illegible]	1450	1450	1510	1530	1530	1530	1530
MAY	.62	.97	.99	1.21	1.43	1.45	1.47	1.47	1.50	1.50	1.51	1.51
DATE	29	29	29	29	29	29	29	29	29	29	29	29
TIME	1344	[illegible]	1345	[illegible]	[illegible]	[illegible]	1435	1450	1452	1515	1605	1515
JUN	.33	.39	.43	.43	.55	.58	.58	.60	[illegible]	.60	.72	.77
DATE	05	05	05	05	07	07	07	07	[illegible]	07	19	19
TIME	1547	1552	1555	1600	1700	[illegible]	1730	1745	1745	1745	2045	2110
JUL	.30	.35	.37	.39	[illegible]	.58	.59	.59	.59	.59	.59	.59
DATE	06	[illegible]	[illegible]	06	06	[illegible]	06	06	06	06	06	06
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1510	1525	1530	1530	1530	1530	1530	1530
AUG	.30	.47	.70	.75	.95	[illegible]	1.90	2.18	2.39	2.39	2.39	2.39
DATE	04	04	16	16	16	16	16	16	16	16	16	16
TIME	2000	[illegible]	1325	[illegible]	[illegible]	1353	1408	1430	1450	1445	1445	1445
SEP	▶ .75	▶1.45	▶1.48	1.70	▶1.85	2.00	2.20	2.46	2.50	2.60	2.60	2.60
DATE	23	23	23	23	23	23	23	23	23	23	23	23
TIME	1500	1500	1500	1500	1505	1507	1505	1505	1508	1515	1515	1515
OCT	.25	.30	.36	.37	.48	.56	.67	.75	.97	1.05	1.27	1.36
DATE	01	01	01	01	01	01	01	01	01	01	01	01
TIME	0500	0505	0512	0515	0525	0538	0545	0615	0630	0645	0625	0653
NOV	.31	.40	.43	[illegible]	.67	.73	.93	.93	1.00	1.03	1.09	1.17
DATE	07	30	30	30	30	30	30	30	30	30	07	30
TIME	0525	1755	1758	1800	1820	1815	1844	1900	1915	1900	0620	2045
DEC	.12	.13	.20	[illegible]	.20	.30	.40	.45	.45	.50	.60	.65
DATE	30	31	31	31	31	31	31	31	31	31	31	31
TIME	2250	0214	0215	0220	0230	0215	[illegible]	0220	0250	0315	0230	0300
YEAR	▶ .75	▶1.45	▶1.48	1.70	▶1.85	2.00	2.20	2.46	2.50	2.60	2.60	2.60
MONTH	09	09	09	09	09	09	09	09	09	09	09	09

LEWISTON, IDAHO

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.05	.05	.06	.06	.07	.08	.10	.12	.14	.18	.19	.21
DATE	25	25	25	25	25	25	25	25	25	25	25	25
TIME	0508	0508	0515	0515	0530	0515	0515	0515	0515	0515	0530	0600
FEB	.03	[illegible]	.06	.06	[illegible]	.09	.12	.13	.16	[illegible]	.19	.21
DATE	02	02	02	02	02	02	02	02	02	02	02	02
TIME	0450	0450	0455	0455	0505	[illegible]	0530	0532	0600	0616	[illegible]	0732
MAR	.05	[illegible]	.05	.06	.07	.09	.12	.13	.13	.14	.15	.15
DATE	02	02	02	02	02	08	08	08	08	08	08	08
TIME	0302	0302	0302	0315	0315	1925	1930	1945	1945	1945	1945	1945
APR	.03	[illegible]	.06	[illegible]	.06	[illegible]	.09	.11	.13	[illegible]	.17	.20
DATE	23	23	23	23	23	23	23	23	23	23	23	23
TIME	0450	0450	0455	0455	0455	0517	0517	0600	0616	0635	0706	0735
MAY	.04	[illegible]	.08	[illegible]	.12	.15	.16	.20	.21	.21	.22	.23
DATE	11	11	11	11	11	11	11	11	11	11	11	11
TIME	[illegible]	0520	0520	0520	0520	0520	0545	0545	0615	0630	0700	0700
JUN	.08	.08	.08	.10	.13	.15	.17	.18	.18	.18	.19	.20
DATE	02	02	02	02	02	02	02	02	02	02	02	02
TIME	[illegible]	2019	2019	1128	1140	1150	1158	1220	1220	1220	1220	1220
JUL	.08	.08	.09	.10	.12	[illegible]	.18	.19	[illegible]	[illegible]	.24	.26
DATE	14	14	[illegible]	12	12	12	12	12	12	12	12	12
TIME	1858	1858	[illegible]	[illegible]	[illegible]	0650	0705	0725	0735	0809	0839	0850
AUG	[illegible]	.12	.12	[illegible]	.13	[illegible]	[illegible]	[illegible]	.17	[illegible]	.22	.26
DATE	30	30	30	30	30	30	30	30	23	23	23	23
TIME	2238	2240	2245	[illegible]	[illegible]	2315	2315	2315	0255	0255	0210	0210
SEP	T	T	T	T	T	T	T	T	T	T	T	T
DATE												
TIME												
OCT	.03	.03	.04	.04	.05	.06	.07	.08	.11	.12	.15	.17
DATE	[illegible]	06	06	06	06	06	06	06	06	06	06	06
TIME	[illegible]	0130	0130	0130	0155	0245	1500	0150	0250	0250	0250	0330
NOV	[illegible]	.04	.04	.04	.04	.04	[illegible]	.06	.06	.06	.06	.06
DATE	24	24	24	24	24	24	24	24	24	24	27	27
TIME	1310	1310	1310	1310	1310	1310	1326	1326	1326	1326	0305	0305
DEC	.03	[illegible]	[illegible]	.05	.08	[illegible]	.12	.13	.16	.19	.21	.21
DATE	26	26	26	26	26	26	26	26	26	26	26	26
TIME	0900	0900	0900	0900	0900	0900	0900	0900	0900	0930	0930	0930
YEAR	.10	.12	.12	.12	.13	.17	[illegible]	.20	.21	[illegible]	[illegible]	.26
MONTH	08	08	08	08	08+	07	07	05	05	07+	07	08+

MAXIMUM SHORT DURATION PRECIPITATION

[illegible]

JAN	.01	.07	[illegible]	[illegible]	.04	[illegible]	[illegible]	[illegible]	[illegible]	.11	.12	[illegible]
DATE	[illegible]	[illegible]	26*	26	26	26	26	26	26	[illegible]	26	26
TIME	[illegible]	[illegible]	[illegible]	2149	[illegible]	2200	2215	[illegible]	2250	2310	[illegible]	[illegible]
FEB	.02	[illegible]	.03	.04	[illegible]	.06	[illegible]	[illegible]	.13	[illegible]	[illegible]	.22
DATE	[illegible]	18*	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10	[illegible]	[illegible]	10	10
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1120	0405	0300	0320	0340	0400	0430	[illegible]
MAR	[illegible]	.03	[illegible]	[illegible]	.05	.07	.08	.10	.12	[illegible]	.17	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	25*	25	[illegible]	25	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	2350	2350	[illegible]	2015	[illegible]	2015	2110	[illegible]	[illegible]	[illegible]
APR	[illegible]	.03	[illegible]	.05	[illegible]	[illegible]	.11	[illegible]	[illegible]	.20	.25	.26
DATE	[illegible]	[illegible]	25*	[illegible]	25	[illegible]	25	25	25	25	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	0442	0442	0442	[illegible]	0350	[illegible]	0428	[illegible]	0522
MAY	.07	[illegible]	.09	.10	.10	.10	.11	[illegible]	.17	[illegible]	[illegible]	.27
DATE	[illegible]	07	[illegible]	07	[illegible]	07	07	[illegible]	[illegible]	07	[illegible]	07
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1935	1935	[illegible]	2035	2055	[illegible]	[illegible]	2215
JUN	[illegible]	[illegible]	.09	.09	.09	.12	[illegible]	.19	.21	.23	.25	.25
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21	21	[illegible]	21	[illegible]	21	21
TIME	[illegible]	[illegible]	[illegible]	1345	[illegible]	[illegible]	[illegible]	0124	0144	0204	0234	0234
JUL	[illegible]	.22	.24	[illegible]	.30	.36	.43	.47	.49	.51	.53	.55
DATE	[illegible]	[illegible]	[illegible]	21	[illegible]	[illegible]	29	[illegible]	29	[illegible]	29	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1945	1945	[illegible]	2026	2047	[illegible]	2145
AUG	.01	.01	.02	.02	.02	.02	.02	[illegible]	.02	.02	[illegible]	.02
DATE	[illegible]	23	[illegible]	[illegible]	23	[illegible]	[illegible]	[illegible]	[illegible]	23	[illegible]	23
TIME	[illegible]	2030	[illegible]	[illegible]	[illegible]	2030	2030	2030	2030	[illegible]	[illegible]	2030
SEP	[illegible]	[illegible]	.02	[illegible]	.02	.02	.02	.02	.02	.02	.02	.02
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16	16	16
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0145	[illegible]	0145	0145
OCT	[illegible]	[illegible]	.10	[illegible]	[illegible]	.20	.30	.37	[illegible]	[illegible]	[illegible]	.49
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13	13	[illegible]	[illegible]	13	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	1720	1720	1652	1710	1720	1720	[illegible]	[illegible]	0920
NOV	[illegible]	[illegible]	[illegible]	[illegible]	.03	.04	[illegible]	.06	.07	.07	.09	.10
DATE	[illegible]	[illegible]	[illegible]	16	16	16	16	16	16	[illegible]	16	17
TIME	[illegible]	[illegible]	1550	1550	1550	[illegible]	1600	1630	1650	[illegible]	1715	[illegible]
DEC	.01	[illegible]	[illegible]	.03	[illegible]	[illegible]	.05	[illegible]	.07	[illegible]	[illegible]	.10
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	0745	[illegible]	0745	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
YEAR	.14	.22	.29	.29	[illegible]	.36	.43	.47	[illegible]	.51	.53	.55
MONTH	[illegible]	07	07	07	[illegible]	07	07	[illegible]	07	07	07	07

CHICAGO, ILLINOIS MIDWAY

JAN	.28	.34	.45	.48	.51	.52	.55	[illegible]	.71	.78	[illegible]	1.09
DATE	[illegible]	10	10	[illegible]	[illegible]	10	[illegible]	10	10	10	10	10
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0547	0547	0547	0208	0208	0345	[illegible]
FEB	.05	.06	[illegible]	.08	[illegible]	.14	.14	.16	.18	.20	.22	.25
DATE	[illegible]	[illegible]	17	17	17	[illegible]	[illegible]	[illegible]	[illegible]	17	17	17
TIME	0105	0110	0115	0120	0130	0145	0159	[illegible]	[illegible]	[illegible]	[illegible]	0400
MAR	.20	[illegible]	.35	[illegible]	.57	.60	.75	[illegible]	.75	.75	.75	.75
DATE	[illegible]	24	24	[illegible]	[illegible]	[illegible]	24	[illegible]	24	24	24	24
TIME	[illegible]	[illegible]	[illegible]	0020	0030	[illegible]	0100	[illegible]	0100	0100	0100	0100
APR	[illegible]	1.00	1.25	[illegible]	1.46	1.69	[illegible]	[illegible]	2.30	[illegible]	[illegible]	2.91
DATE	[illegible]	18	[illegible]	[illegible]	[illegible]	18	[illegible]	[illegible]	18	18	18	[illegible]
TIME	[illegible]	1610	[illegible]	1620	1630	1645	1700	1720	1740	1800	[illegible]	1900
MAY	[illegible]	[illegible]	[illegible]	[illegible]	1.62	[illegible]	2.45	[illegible]	2.51	2.51	2.52	2.53
DATE	[illegible]	20	[illegible]	[illegible]	[illegible]	20	[illegible]	[illegible]	[illegible]	[illegible]	20	20
TIME	1545	[illegible]	[illegible]	[illegible]	1615	1630	1615	1630	[illegible]	1645	1650	1705
JUN	[illegible]	[illegible]	.44	.45	[illegible]	.70	.71	[illegible]	.73	[illegible]	[illegible]	.73
DATE	25	25	25	25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	25	25	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	0830	[illegible]	0900	[illegible]	[illegible]	[illegible]	[illegible]	0905
JUL	.12	[illegible]	[illegible]	.35	.41	[illegible]	.47	.52	[illegible]	.58	[illegible]	[illegible]
DATE	[illegible]	[illegible]	23	23	23	[illegible]	23	[illegible]	[illegible]	23	23	23
TIME	[illegible]	[illegible]	2045	2045	2045	2045	2045	2045	[illegible]	[illegible]	[illegible]	2120
AUG	.40	[illegible]	.95	[illegible]	1.42	1.50	1.55	[illegible]	1.58	1.58	1.58	[illegible]
DATE	21	[illegible]	[illegible]	21	21	21	21	21	[illegible]	22	22	22
TIME	[illegible]	2255	[illegible]	[illegible]	[illegible]	2330	2345	[illegible]	[illegible]	0010	[illegible]	0010
SEP	.09	[illegible]	.10	.10	[illegible]	.15	.18	.25	[illegible]	[illegible]	[illegible]	.29
DATE	[illegible]	17	17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19	[illegible]	19
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0315	[illegible]	0400	0400	0410	0415
OCT	.16	.19	[illegible]	.35	.51	.66	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.84
DATE	[illegible]	[illegible]	24	[illegible]	24	24	[illegible]	[illegible]	[illegible]	24	[illegible]	[illegible]
TIME	1630	1910	[illegible]	[illegible]	1939	1945	2000	2020	2055	2100	2200	[illegible]
NOV	[illegible]	[illegible]	.17	.19	.21	.28	.34	.39	.40	[illegible]	.42	.42
DATE	29	29	29	29	[illegible]	[illegible]	29	[illegible]	29	29	[illegible]	29
TIME	[illegible]	[illegible]	[illegible]	0455	[illegible]	0520	0535	[illegible]	[illegible]	0635	0705	0735
DEC	.08	.12	.13	.15	[illegible]	.20	.24	.25	.27	.30	[illegible]	.35
DATE	[illegible]	14	14	14	14	14	[illegible]	[illegible]	[illegible]	14	14	14
TIME	1605	1610	1615	1620	1630	1635	1930	1910	1915	1730	1740	[illegible]
YEAR	[illegible]	1.02	[illegible]	1.35	[illegible]	2.10	2.45	2.51	2.51	[illegible]	2.77	2.91
MONTH	[illegible]	[illegible]	04	[illegible]	05	05	05	05	[illegible]	05	04	04

ROCKFORD, ILLINOIS

JAN	.09	.14	[illegible]	[illegible]	.21	.22	.28	.32	[illegible]	.40	.42	.42
DATE	[illegible]	10	[illegible]	10	10	10	10	10	[illegible]	10	10	[illegible]
TIME	[illegible]	[illegible]	1922	1927	1937	[illegible]	2007	[illegible]	2047	2035	2031	2200
FEB	[illegible]	[illegible]	.08	.10	[illegible]	.16	.21	.25	.28	.35	.42	.47
DATE	17	17	17	17	17	17	[illegible]	[illegible]	17	[illegible]	17	[illegible]
TIME	[illegible]	[illegible]	[illegible]	0246	0301	[illegible]	0137	0147	0209	0245	[illegible]	0316
MAR	[illegible]	.20	.21	.22	.24	.27	.33	[illegible]	.54	.62	.65	[illegible]
DATE	21	[illegible]	21	[illegible]	21	21	22	[illegible]	22	[illegible]	22	22
TIME	[illegible]	[illegible]	[illegible]	[illegible]	2339	2354	0009	0029	[illegible]	0109	[illegible]	0136
APR	.08	.10	.12	.15	[illegible]	.30	.35	.40	[illegible]	[illegible]	.50	.58
DATE	[illegible]	27	[illegible]	27	27	27	27	[illegible]	[illegible]	[illegible]	[illegible]	27
TIME	[illegible]	[illegible]	1147	1147	[illegible]	[illegible]	1206	1206	1206	1206	1206	1206
MAY	[illegible]	[illegible]	.77	.79	[illegible]	.84	.88	.90	.90	.90	.90	[illegible]
DATE	[illegible]	[illegible]	[illegible]	20	20	20	20	[illegible]	[illegible]	20	20	20
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1557	1557	1557	1557	1603	1603	1603	1603
JUN	.39	.53	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.87	.88	.88	[illegible]	.88
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14	14	14
TIME	[illegible]	1930	[illegible]	2042	2047	[illegible]	2120	2140	2200	2200	2200	2200
JUL	.17	.27	.30	.32	[illegible]	.37	.37	.37	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	06	[illegible]	[illegible]	[illegible]	06	06	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	0325	[illegible]	[illegible]	[illegible]	[illegible]	0415	0435	0455	0515	[illegible]	[illegible]
AUG	[illegible]	[illegible]	.44	[illegible]	[illegible]	[illegible]	.45	.47	.49	[illegible]	.49	[illegible]
DATE	[illegible]	[illegible]	21	21	21	21	21	21	22	22	22	22
TIME	2230	2233	[illegible]	[illegible]	2253	2308	[illegible]	2343	[illegible]	[illegible]	0053	0123
SEP	.04	.04	[illegible]	.05	.08	.11	.13	.15	[illegible]	.20	.25	.27
DATE	[illegible]	17	17	17	17	17	[illegible]	05	[illegible]	[illegible]	05	05
TIME	2010	[illegible]	[illegible]	[illegible]	2035	2050	1803	1823	1843	1903	[illegible]	2003
OCT	[illegible]	.20	.21	[illegible]	[illegible]	.27	.27	.27	.27	.27	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	14	14	14	[illegible]	14	14	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1504	[illegible]	1544	1604	[illegible]	[illegible]
NOV	.20	[illegible]	.37	[illegible]	[illegible]	.62	[illegible]	.75	.77	[illegible]	[illegible]	[illegible]
DATE	[illegible]	09	09	[illegible]	09	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	2207	0324	[illegible]	[illegible]	[illegible]	0359	0353	0353	2347	[illegible]	[illegible]	0045
DEC	.12	.14	[illegible]	.15	.15	.18	[illegible]	.25	[illegible]	.33	.36	.38
DATE	[illegible]	13	[illegible]	13	[illegible]	13	13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	1548	[illegible]	1545	1551	1553	1559	1543	[illegible]	[illegible]	[illegible]
YEAR	[illegible]	[illegible]	.77	.79	.83	.85	.88	.90	.90	[illegible]	[illegible]	[illegible]
MONTH	05	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	05	05	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

JAN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.42	.45	[illegible]	[illegible]	[illegible]
DATE	[illegible]	10	[illegible]	[illegible]	[illegible]	10	10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	1008	[illegible]	[illegible]	1023	1033	1048	1103	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
FEB	[illegible]	.34	.35	[illegible]	.60	.78	.92	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	22	[illegible]	[illegible]	[illegible]	22	22	22	[illegible]	[illegible]	22	[illegible]	[illegible]
TIME	1743	2017	2017	2028	[illegible]	2049	2053	2115	2137	[illegible]	[illegible]	[illegible]
MAR	.34	[illegible]	[illegible]	[illegible]	.67	[illegible]	.82	.98	1.24	[illegible]	[illegible]	[illegible]
DATE	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	28	[illegible]	[illegible]	28	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1855	1948
APR	.72	.39	.41	[illegible]	.68	.70	.71	.71	.81	.85	[illegible]	.95
DATE	[illegible]	18	19	18	[illegible]	18	[illegible]	18	[illegible]	[illegible]	[illegible]	25
TIME	2000	[illegible]	2010	2015	2022	2027	2030	2030	0122	[illegible]	[illegible]	0239
MAY	.40*	[illegible]	.48	[illegible]	.91	[illegible]	.92	.92	.92	.92	.92	1.26
DATE	26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	26	[illegible]	26	[illegible]	26	[illegible]
TIME	[illegible]	[illegible]	1555	[illegible]	1600	1605	1608	1610	[illegible]	1610	1610	1641
JUN	[illegible]	1.07*	[illegible]	1.34*	1.58	1.61	1.85	1.95	[illegible]	2.03	2.08	[illegible]
DATE	05	05	[illegible]	[illegible]	05	05	[illegible]	05	05	05	[illegible]	05
TIME	2018	[illegible]	[illegible]	[illegible]	2030	2030	2028	2041	2100	2117	[illegible]	[illegible]
JUL	[illegible]	.51	.54	.62	[illegible]	[illegible]	.76	.76	.78	.81	.93	1.01
DATE	[illegible]	20	20	[illegible]	20	20	05	[illegible]	20	20	[illegible]	[illegible]
TIME	0606	0609	[illegible]	0619	0629	0632	1915	1915	[illegible]	0645	0704	0742
AUG	.41	.73	[illegible]	1.00	1.30	1.75	1.96	2.21	2.34	[illegible]	2.47	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	03	[illegible]	03	[illegible]	03	03
TIME	1615	[illegible]	[illegible]	1630	[illegible]	0909	0907	0920	0940	[illegible]	0918	0945
SEP	[illegible]	.67	[illegible]	.90	1.16	[illegible]	1.25	1.40	1.69	[illegible]	2.17	[illegible]
DATE	11	[illegible]	[illegible]	11	11	[illegible]	[illegible]	[illegible]	11	[illegible]	[illegible]	[illegible]
TIME	1543	[illegible]	1541	1557	[illegible]	[illegible]	1636	[illegible]	1545	[illegible]	1630	1708
OCT	.15	.27	[illegible]	[illegible]	.43	[illegible]	[illegible]	.95	.98	[illegible]	1.02	1.03
DATE	[illegible]	[illegible]	[illegible]	24	24	[illegible]	24	[illegible]	24	[illegible]	25	25
TIME	2235	[illegible]	[illegible]	[illegible]	[illegible]	2320	2335	[illegible]	2355	[illegible]	[illegible]	0045
NOV	.24	[illegible]	[illegible]	.40	[illegible]	.57	.61	[illegible]	.65	[illegible]	.72	.75
DATE	09	[illegible]	[illegible]	[illegible]	[illegible]	30	30	[illegible]	30	30	30	30
TIME	1320	1513	[illegible]	[illegible]	[illegible]	1540	1555	1600	[illegible]	1600	1630	1700
DEC	.18	.24	[illegible]	[illegible]	.45	[illegible]	[illegible]	.63	.69	[illegible]	.74	.76
DATE	15	15	[illegible]	[illegible]	[illegible]	[illegible]	15	15	15	15	[illegible]	15
TIME	[illegible]	0530	0530	0530	[illegible]	0544	0610	0630	0650	0710	0740	[illegible]
YEAR	.80*	1.07*	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.21	[illegible]	[illegible]	[illegible]	[illegible]
MONTH	06	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

MOLINE, ILLINOIS

JAN	[illegible]	.07	.03	[illegible]	[illegible]	[illegible]	[illegible]	.09	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	28	[illegible]	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	28	29
TIME	2200	2200	2200	2205	[illegible]	2225	2240	2300	[illegible]	2340	2359	0035
FEB	.05	[illegible]	.10	.13	[illegible]	[illegible]	.30	.33	.35	.40	.54	.55
DATE	[illegible]	17	17	[illegible]	[illegible]	[illegible]	17	[illegible]	[illegible]	17	[illegible]	17
TIME	[illegible]	[illegible]	0015	0015	0002	0002	0018	0033	[illegible]	[illegible]	[illegible]	0115
MAR	.07	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.27	[illegible]	[illegible]	.41	[illegible]
DATE	27	[illegible]	27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	27	[illegible]	[illegible]	[illegible]
TIME	1300	[illegible]	[illegible]	[illegible]	[illegible]	1414	1355	[illegible]	[illegible]	1355	1355	1555
APR	.22	.39	[illegible]	[illegible]	.62	[illegible]	[illegible]	.72	[illegible]	.75	[illegible]	[illegible]
DATE	[illegible]	23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	23	[illegible]	23
TIME	[illegible]	1659	1655	[illegible]	1720	1723	1723	1723	[illegible]	1838	1858	1928
MAY	.20	.36	[illegible]	.39	.45	.50	[illegible]	[illegible]	.62	.68	.78	[illegible]
DATE	[illegible]	24	24	[illegible]	08	08	[illegible]	08	[illegible]	[illegible]	24	24
TIME	[illegible]	[illegible]	1540	[illegible]	0130	0140	[illegible]	0215	[illegible]	[illegible]	1730	1800
JUN	[illegible]	[illegible]	.43	[illegible]	[illegible]	[illegible]	[illegible]	.85	[illegible]	[illegible]	[illegible]	.85
DATE	[illegible]	[illegible]	27	27	27	[illegible]	[illegible]	[illegible]	14	[illegible]	[illegible]	14
TIME	[illegible]	1809	[illegible]	[illegible]	1820	[illegible]	1900	1952	1952	1952	1952	2132
JUL	[illegible]	.84	.97	[illegible]	1.22	1.22	1.22	[illegible]	1.22	1.22	1.22	1.22
DATE	[illegible]	23	23	23	23	[illegible]	[illegible]	[illegible]	23	[illegible]	23	23
TIME	1557	1557	[illegible]	1557	1557	1557	[illegible]	1623	[illegible]	1623	1623	1623
AUG	[illegible]	.09	.10	.12	.16	.17	.22	.28	[illegible]	.39	.46	.53
DATE	[illegible]	[illegible]	13	13	13	13	25	25	[illegible]	[illegible]	29	29
TIME	0148	[illegible]	[illegible]	0148	0148	0200	[illegible]	0600	[illegible]	[illegible]	[illegible]	0517
SEP	[illegible]	.09	.10	.13	.20	.24	[illegible]	[illegible]	[illegible]	[illegible]	.55	.61
DATE	04	[illegible]	[illegible]	05	05	05	[illegible]	[illegible]	[illegible]	[illegible]	05	05
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0423	0438	0458	[illegible]	0435	0435	0435
OCT	[illegible]	.18	.22	[illegible]	.36	.38	.38	.38	[illegible]	.38	[illegible]	.38
DATE	[illegible]	24	24	[illegible]	24	[illegible]	24	[illegible]	[illegible]	[illegible]	24	24
TIME	1613	[illegible]	1614	1614	1622	[illegible]	1622	1622	[illegible]	1622	1622	1852
NOV	.11	[illegible]	[illegible]	.20	[illegible]	.29	.30	.30	[illegible]	.37	.39	.41
DATE	[illegible]	[illegible]	[illegible]	[illegible]	29	09	09	[illegible]	[illegible]	29	29	29
TIME	1802	[illegible]	1802	[illegible]	[illegible]	[illegible]	0148	2212	2232	2252	[illegible]	2330
DEC	.07	[illegible]	[illegible]	.09	[illegible]	.12	.16	.18	.25	.28	.29	.32
DATE	14	14	14	[illegible]	[illegible]	[illegible]	14	[illegible]	[illegible]	[illegible]	14	14
TIME	0454	0454	[illegible]	0454	0454	0454	0454	0454	0454	0454	[illegible]	0749
YEAR	.48	.84	[illegible]	[illegible]	1.22	1.22	[illegible]	1.22	1.22	1.22	[illegible]	[illegible]
MONTH	07	07	07	[illegible]	07	07	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SPRINGFIELD, ILLINOIS

JAN	.24	.29	.37	[illegible]	.69	[illegible]	.96	[illegible]	1.05	1.08	1.23	[illegible]
DATE	09	09	09	[illegible]	09	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10	10
TIME	2359	2359	[illegible]	2359	[illegible]	0010	0025	0045	[illegible]	0125	[illegible]	[illegible]
FEB	.13	.27	.31	.34	.38	.39	.45	[illegible]	[illegible]	.55	[illegible]	.57
DATE	16	16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17	17	17	[illegible]
TIME	2350	[illegible]	[illegible]	2355	2359	0013	0030	0050	[illegible]	0120	[illegible]	[illegible]
MAR	[illegible]	[illegible]	[illegible]	.13	.21	.27	[illegible]	[illegible]	.37	.38	.38	[illegible]
DATE	[illegible]	23	23	27	27	27	[illegible]	[illegible]	27	27	[illegible]	[illegible]
TIME	2125	[illegible]	2135	[illegible]	1615	1615	[illegible]	1650	[illegible]	[illegible]	1700	1700
APR	.50	.59	[illegible]	.62	[illegible]	[illegible]	.71	.71	.72	.72	.72	.72
DATE	[illegible]	23	[illegible]	23	23	23	23	23	[illegible]	23	23	23
TIME	2005	[illegible]	[illegible]	2017	2027	[illegible]	[illegible]	[illegible]	[illegible]	2055	2120	[illegible]
MAY	.50	.60	.75	1.10	1.30	1.37	[illegible]	1.42	1.43	1.43	1.43	1.43
DATE	26	26	[illegible]	26	26	26	26	26	[illegible]	[illegible]	[illegible]	26
TIME	1200	[illegible]	1148	1153	1203	[illegible]	[illegible]	1247	1247	1247	[illegible]	1247
JUN	.33	.50	[illegible]	[illegible]	[illegible]	1.05	1.25	1.44	[illegible]	1.53	1.60	1.68
DATE	25	25	25	[illegible]	[illegible]	25	25	25	[illegible]	25	25	25
TIME	1417	1422	1427	[illegible]	1442	1457	1512	[illegible]	1552	1612	[illegible]	1712
JUL	[illegible]	.44	.52	.52	.52	.52	.52	.52	.52	.52	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	1840	1840	1840	[illegible]	[illegible]	1840	1840	1840	1840	[illegible]
AUG	[illegible]	.24	[illegible]	.43	.55	[illegible]	.75	1.00	1.25	1.45	[illegible]	[illegible]
DATE	25	[illegible]	25	25	[illegible]	25	[illegible]	25	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	2001	2011	[illegible]	2041	2101	2121	[illegible]	[illegible]	[illegible]
SEP	.74	[illegible]	.69	[illegible]	[illegible]	.77	.86	.92	[illegible]	1.02	1.13	1.28
DATE	[illegible]	18	19	18	[illegible]	[illegible]	19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	2350	[illegible]	0020	0040	[illegible]	0120	[illegible]	0220
OCT	.18	[illegible]	[illegible]	[illegible]	[illegible]	.48	[illegible]	[illegible]	.54	[illegible]	.54	.54
DATE	[illegible]	24	24	[illegible]	24	24	24	[illegible]	24	[illegible]	[illegible]	[illegible]
TIME	1750	[illegible]	[illegible]	[illegible]	1815	[illegible]	1845	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
NOV	.32	[illegible]	[illegible]	.52	[illegible]	.67	.69	[illegible]	.76	.77	[illegible]	[illegible]
DATE	[illegible]	29	[illegible]	29	29	29	[illegible]	30	[illegible]	30	[illegible]	[illegible]
TIME	[illegible]	2329	[illegible]	[illegible]	[illegible]	2349	[illegible]	0015	[illegible]	[illegible]	[illegible]	[illegible]
DEC	[illegible]	.08	.10	[illegible]	[illegible]	.25	.25	.31	.36	.38	.39	.44
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14	[illegible]	14	[illegible]	14	14	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
YEAR	[illegible]	[illegible]	.75	1.10	1.30	1.37	1.40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MONTH	[illegible]	[illegible]	[illegible]	05	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

JAN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.62	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
FEB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.44	.54	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MAR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	07	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
APR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.45	1.48	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1630	1635	[illegible]
MAY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.53	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
JUN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.22	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1635	[illegible]
JUL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.53	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0423	0423	[illegible]
AUG	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.41	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2304	[illegible]	[illegible]
SEP	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.29	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	05	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0700	[illegible]	[illegible]
OCT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.64	.80	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2042	2112	[illegible]
NOV	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.32	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	29	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0500	[illegible]
DEC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.48	.49	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1310	[illegible]
YEAR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

JAN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1850
FEB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.45	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17	17
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2048	[illegible]
MAR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1629	[illegible]
APR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.78
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1513
MAY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
JUN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.84	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	05	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
JUL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.28	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	23
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1920	0830
AUG	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.57	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1645	[illegible]
SEP	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
OCT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
NOV	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DEC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
YEAR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

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DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	1225	1120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
FEB	[illegible]	.08	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.42	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	22	[illegible]	[illegible]	[illegible]	[illegible]	22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	0915	[illegible]	[illegible]	0935	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MAR	[illegible]	.16	.24	[illegible]	.27	[illegible]	[illegible]	.34	.38	.45	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	0320	0325	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0405	[illegible]	[illegible]
APR	[illegible]	.76	[illegible]	[illegible]	.65	.75	[illegible]	[illegible]	.95	1.06	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	0009	0014	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MAY	[illegible]	.82	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	1715	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
JUN	[illegible]	.35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	1610	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
JUL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	2221	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
AUG	.69	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SEP	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	11	[illegible]	[illegible]	11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
OCT	.11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
NOV	.31	.34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DEC	.09	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
YEAR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

MAXIMUM SHORT DURATION PRECIPITATION

Maximum precipitation in inches (5 - 180 minutes)

FORT WAYNE, INDIANA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	.12	[illegible]	.15	.16	.19	.27	.29	.32	.34	.38
DATE	[illegible]	[illegible]	[illegible]	11	08	08	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	29
TIME	[illegible]	0011	[illegible]	1445	[illegible]	[illegible]	1516	1540	1600	[illegible]	0050	[illegible]
FEB	[illegible]	[illegible]	[illegible]	[illegible]	.12	[illegible]	.23	[illegible]	.34	.37	[illegible]	[illegible]
DATE	[illegible]	22	[illegible]	22	22	[illegible]	22	22	22	22	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	1841	[illegible]	1907	[illegible]	1921	[illegible]	[illegible]	2031	2101
MAR	[illegible]	[illegible]	.10	.11	.11	[illegible]	[illegible]	[illegible]	.21	[illegible]	.26	.27
DATE	[illegible]	[illegible]	[illegible]	28	28	[illegible]	07	[illegible]	[illegible]	07	29	29
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0130	0201	0221	0241	[illegible]	[illegible]	[illegible]
APR	.23	[illegible]	.31	[illegible]	.36	[illegible]	.48	.55	.61	.67	.73	.74
DATE	[illegible]	[illegible]	[illegible]	[illegible]	23	24	24	[illegible]	24	24	[illegible]	24
TIME	2330	[illegible]	[illegible]	2345	[illegible]	0010	0005	[illegible]	0045	0105	[illegible]	0205
MAY	[illegible]	[illegible]	.34	[illegible]	.35	.50	.65	[illegible]	[illegible]	.93	[illegible]	1.34
DATE	[illegible]	[illegible]	21	[illegible]	21	21	21	[illegible]	21	21	21	22
TIME	[illegible]	[illegible]	[illegible]	2140	2150	2205	2220	2240	2300	2320	2350	0020
JUN	[illegible]	[illegible]	[illegible]	.35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.94	.95
DATE	[illegible]	[illegible]	[illegible]	14	[illegible]	14	[illegible]	14	[illegible]	14	14	14
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1920	[illegible]	1950	[illegible]	[illegible]	[illegible]	2120	[illegible]
JUL	[illegible]	[illegible]	[illegible]	.34	[illegible]	[illegible]	[illegible]	.51	.55	.55	.55	.55
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19	[illegible]	19	[illegible]	19
TIME	[illegible]	[illegible]	1155	[illegible]	[illegible]	1225	[illegible]	1300	[illegible]	1340	1410	1440
AUG	[illegible]	.33	[illegible]	[illegible]	[illegible]	.89	1.09	1.22	1.23	1.25	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	03	[illegible]	[illegible]	[illegible]	[illegible]	03	[illegible]	03
TIME	2215	0310	[illegible]	[illegible]	0330	[illegible]	[illegible]	[illegible]	0440	0500	[illegible]	0525
SEP	.26	.34	.44	[illegible]	.79	[illegible]	.81	.93	1.38	1.43	1.45	1.46
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11	[illegible]	[illegible]	11	11	11
TIME	[illegible]	[illegible]	1335	[illegible]	1350	[illegible]	[illegible]	1440	1500	1505	1535	1610
OCT	[illegible]	[illegible]	[illegible]	.10	.14	[illegible]	.23	.29	[illegible]	[illegible]	.37	.42
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	08	08	[illegible]	08	08	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	1720	1730	1745	1800	1820	1840	1815	[illegible]	1915
NOV	.15	.24	.25	[illegible]	.27	.27	[illegible]	[illegible]	[illegible]	.39	[illegible]	.43
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10	[illegible]	[illegible]	07	[illegible]	07
TIME	0413	[illegible]	[illegible]	[illegible]	[illegible]	0453	0508	0700	0700	0720	0750	0820
DEC	[illegible]	[illegible]	.38	.42	[illegible]	.51	[illegible]	.77	.85	[illegible]	1.07	1.15
DATE	[illegible]	15	[illegible]	15	15	[illegible]	15	[illegible]	15	15	[illegible]	15
TIME	[illegible]	[illegible]	[illegible]	0050	[illegible]	0115	0132	0.52	0212	0232	0302	[illegible]
YEAR	.26	[illegible]	.47	[illegible]	.79	[illegible]	1.09	1.22	1.38	1.43	1.45	[illegible]
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	09	[illegible]	[illegible]	[illegible]	[illegible]	09	[illegible]	[illegible]

INDIANAPOLIS, INDIANA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.23	[illegible]	[illegible]	.28	[illegible]	[illegible]	.40	.44	.45	[illegible]	[illegible]	[illegible]
DATE	10	[illegible]	[illegible]	28	28	[illegible]	28	[illegible]	28	28	28	[illegible]
TIME	1617	[illegible]	[illegible]	1935	1945	2000	2045	2035	[illegible]	2111	2141	[illegible]
FEB	.12	[illegible]	.15	[illegible]	[illegible]	.33	.37	.47	.57	.61	.67	.79
DATE	22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	22	[illegible]	[illegible]	[illegible]	22	22
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1919	1919	1919	[illegible]	1919	1919
MAR	.12	[illegible]	[illegible]	.16	.18	.22	.24	.27	.30	.41	.47	.53
DATE	28	[illegible]	[illegible]	28	[illegible]	28	28	[illegible]	28	28	29	28
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2200	[illegible]	2135	[illegible]	2225	2255
APR	.17	.26	[illegible]	.39	.45	[illegible]	.73	.85	.88	[illegible]	[illegible]	.90
DATE	23	23	[illegible]	[illegible]	23	24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24
TIME	2334	2334	[illegible]	2339	2349	0004	[illegible]	[illegible]	0059	0059	0120	[illegible]
MAY	[illegible]	.37	[illegible]	.54	.58	[illegible]	.63	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	22	[illegible]	22	22	22	[illegible]	[illegible]	22	[illegible]
TIME	0318	[illegible]	[illegible]	0330	0330	0330	0338	0350	0350	0350	[illegible]	0350
JUN	M	M	M	[illegible]	[illegible]	2.37	M	M	M	M	M	M
DATE						25						
TIME						1457						
JUL	.50	.69	[illegible]	1.05	[illegible]	1.45	1.52	1.55	1.55	1.55	1.55	1.55
DATE	[illegible]	[illegible]	[illegible]	[illegible]	06	06	[illegible]	06	06	06	06	06
TIME	1604	[illegible]	[illegible]	1619	1629	1630	1635	1655	[illegible]	1655	1655	1655
AUG	.32	[illegible]	[illegible]	[illegible]	[illegible]	.75	.75	.87	.88	.88	.92	.97
DATE	11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13	13	13	[illegible]
TIME	0000	[illegible]	[illegible]	0002	0012	0027	0042	1810	1830	1845	1920	[illegible]
SEP	.11	[illegible]	[illegible]	.22	.25	[illegible]	.38	.39	.41	.41	.41	.43
DATE	19	11	11	11	11	[illegible]	[illegible]	11	[illegible]	[illegible]	[illegible]	11
TIME	[illegible]	[illegible]	[illegible]	0920	[illegible]	2111	[illegible]	2143	2203	2203	[illegible]	[illegible]
OCT	.12	[illegible]	.15	.19	.22	[illegible]	.30	[illegible]	.32	[illegible]	.42	.52
DATE	01	[illegible]	01	[illegible]	01	01	01	01	08	08	08	[illegible]
TIME	0135	[illegible]	[illegible]	0150	0200	0215	0230	0230	[illegible]	1010	[illegible]	[illegible]
NOV	.15	.20	.26	.30	.42	.52	[illegible]	.64	.67	.71	.76	.80
DATE	10	[illegible]	30	[illegible]	30	30	[illegible]	30	[illegible]	[illegible]	30	30
TIME	0259	0506	[illegible]	0516	0526	0541	0556	0616	[illegible]	[illegible]	0726	[illegible]
DEC	.18	[illegible]	.48	[illegible]	[illegible]	.56	.58	.64	.74	.83	[illegible]	1.05
DATE	[illegible]	15	[illegible]	[illegible]	[illegible]	15	[illegible]	[illegible]	15	[illegible]	[illegible]	15
TIME	0213	[illegible]	[illegible]	0226	0236	0251	0306	0326	0346	[illegible]	0436	[illegible]
YEAR	.50	.69	[illegible]	[illegible]	1.39	2.37	1.52	[illegible]	1.55	[illegible]	[illegible]	1.55
MONTH	[illegible]	[illegible]	07	[illegible]	[illegible]	06	07	[illegible]	[illegible]	[illegible]	[illegible]	07

SOUTH BEND, INDIANA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.10	[illegible]	.20	[illegible]	.26	.30	.30	.47	.54	.55	.56	.59
DATE	10	10	10	10	10	10	10	10	[illegible]	10	10	10
TIME	0720	[illegible]	0730	0735	0745	[illegible]	0815	0835	0855	0915	0945	1015
FEB	.06	.08	.09	.11	.16	.16	.21	.27	.31	.35	.41	.43
DATE	23	23	23	23	23	23	23	23	23	23	23	23
TIME	2108	[illegible]	2103	2103	[illegible]	2103	[illegible]	2103	2125	2145	2215	2225
MAR	.06	[illegible]	.08	.09	[illegible]	.15	.18	.21	.27	[illegible]	.33	.38
DATE	24	24	24	24	24	07	07	07	07	07	07	07
TIME	[illegible]	0340	0345	[illegible]	0400	0015	0030	0050	0110	[illegible]	0200	[illegible]
APR	.22	[illegible]	.30	.31	.31	.31	.33	.48	.53	.60	.72	.81
DATE	30	30	30	30	30	30	18	18	18	18	18	18
TIME	[illegible]	[illegible]	2305	[illegible]	2315	2315	1100	1100	1100	1100	1200	1200
MAY	.15	[illegible]	.25	.30	.35	[illegible]	.45	.49	.58	.60	.62	.62
DATE	25	25	25	25	25	25	25	25	25	25	25	25
TIME	1510	1515	1520	1525	1535	1550	1605	1635	1645	1705	1735	1805
JUN	.30	.42	.47	.49	[illegible]	.66	.75	.86	.91	.98	1.08	1.10
DATE	13	14	14	14	14	14	14	14	14	14	14	14
TIME	[illegible]	1708	1710	1715	1725	1740	1750	1810	1835	1848	1923	1948
JUL	.24	.36	.38	.39	.50	.63	.68	.73	.75	.75	.78	.84
DATE	19	19	19	19	19	19	19	19	19	19	11	11
TIME	0930	0932	0937	0942	0930	0935	0947	1005	1030	1040	2100	2110
AUG	[illegible]	.41	.42	.52	.59	.64	.72	.84	.85	1.35	1.41	1.54
DATE	02	02	02	10	28	28	10	10	10	10	10	10
TIME	1337	1342	1347	1725	2228	2240	1900	1920	1930	1900	1930	2000
SEP	.04	.05	.06	.07	.11	.15	.16	.19	.20	.22	.22	.22
DATE	05	05	05	05	05	05	05	05	05	05	05	05
TIME	0840	0845	0845	0850	0905	0915	0935	0940	0940	0940	0940	0940
OCT	.19	.30	.32	.40	[illegible]	[illegible]	.63	.69	.70	.80	.82	.84
DATE	25	25	25	25	25	25	25	25	25	25	25	25
TIME	0000	0000	0000	0000	0000	0015	0030	0050	0110	0130	0200	0230
NOV	.14	.23	.24	.27	.29	.35	.37	.40	.48	.51	.53	.61
DATE	10	10	10	10	29	29	29	29	29	29	29	29
TIME	0250	0255	0300	0305	1000	1007	1007	1007	1106	1106	1130	1100
DEC	.08	[illegible]	.17	.19	.25	.30	.35	.39	.40	.43	.51	.53
DATE	06	06	06	06	06	06	06	06	06	06	06	06
TIME	0135	0140	0145	0150	0200	0215	0230	0250	0310	0330	0400	0430
YEAR	.30	[illegible]	.47	.52	[illegible]	.66	.75	.86	.91	1.35	1.41	1.54
MONTH	06	06	06	08	06	06	06	06	06	08	08	08

DES MOINES, IOWA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	.04	[illegible]	[illegible]	[illegible]	.11	.15	[illegible]	[illegible]	[illegible]	[illegible]	.38
DATE	[illegible]	02	[illegible]	[illegible]	10	10	10	10	[illegible]	[illegible]	10	[illegible]
TIME	[illegible]	[illegible]	1438	1030	0830	[illegible]	0900	0920	0940	1000	1030	[illegible]
FEB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.23	.25	.29	[illegible]	.34	.35
DATE	[illegible]	16	[illegible]	[illegible]	[illegible]	16	16	16	16	16	17	[illegible]
TIME	[illegible]	2220	[illegible]	2230	2240	[illegible]	2310	2252	2314	[illegible]	0000	2310
MAR	[illegible]	[illegible]	.10	.11	.13	.19	.26	.29	[illegible]	[illegible]	.41	[illegible]
DATE	[illegible]	27	[illegible]	27	27	[illegible]	27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	0913	[illegible]	0920	0555	1029	1045	1028	1048	[illegible]	1138	[illegible]
APR	[illegible]	[illegible]	.30	.32	[illegible]	.36	.40	[illegible]	.45	[illegible]	.50	.51
DATE	23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	23	23	23	23	23
TIME	0050	[illegible]	0059	0051	[illegible]	[illegible]	0055	0110	0128	0145	0210	0240
MAY	[illegible]	.23	[illegible]	[illegible]	[illegible]	[illegible]	.56	.60	.60	[illegible]	.65	[illegible]
DATE	[illegible]	[illegible]	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1657	1735	[illegible]	1755	1825	2133	2145
JUN	.33	[illegible]	[illegible]	[illegible]	[illegible]	.95	[illegible]	1.31	1.38	[illegible]	[illegible]	1.47
DATE	[illegible]	[illegible]	[illegible]	18	18	18	[illegible]	[illegible]	18	[illegible]	18	18
TIME	[illegible]	0539	[illegible]	[illegible]	0613	[illegible]	[illegible]	0645	0701	0716	0708	0736
JUL	[illegible]	.01	[illegible]	[illegible]	.01	[illegible]	.01	.01	.01	.02	.02	.02
DATE	22	[illegible]	[illegible]	22	22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	22
TIME	[illegible]	[illegible]	[illegible]	1032	1032	1032	1032	[illegible]	1032	1032	1032	[illegible]
AUG	.79	.97	[illegible]	1.13	1.20	[illegible]	2.36	2.98	[illegible]	3.31	3.71*	4.90
DATE	27	[illegible]	[illegible]	27	27	[illegible]	27	[illegible]	27	27	27	27
TIME	[illegible]	[illegible]	[illegible]	0540	0550	0602	0620	0637	[illegible]	0712	0748	0818
SEP	[illegible]	.11	.13	[illegible]	[illegible]	[illegible]	.22	[illegible]	[illegible]	.38	.38	[illegible]
DATE	[illegible]	05	[illegible]	[illegible]	05	05	05	[illegible]	[illegible]	[illegible]	28	28
TIME	[illegible]	[illegible]	[illegible]	0405	0415	0430	[illegible]	0137	0200	0210	[illegible]	0237
OCT	[illegible]	[illegible]	.19	[illegible]	.11	.13	.21	.27	[illegible]	.32	[illegible]	.42
DATE	[illegible]	[illegible]	24	24	[illegible]	31	[illegible]	31	[illegible]	[illegible]	31	31
TIME	[illegible]	[illegible]	[illegible]	0815	2302	[illegible]	2150	2155	2155	2300	2305	[illegible]
NOV	.15	.27	[illegible]	.29	.32	.37	.39	.42	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	29	[illegible]	29	[illegible]	[illegible]	[illegible]	29	29
TIME	1550	[illegible]	[illegible]	[illegible]	1615	[illegible]	1645	1700	1725	1745	1815	1845
DEC	[illegible]	[illegible]	.20	[illegible]	.23	[illegible]	.30	.34	.35	.35	[illegible]	.36
DATE	[illegible]	[illegible]	14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14	[illegible]	[illegible]	14
TIME	[illegible]	[illegible]	[illegible]	0150	[illegible]	0215	0230	0240	0300	0300	[illegible]	0300
YEAR	.79	.97	[illegible]	1.13	1.20	[illegible]	2.36	[illegible]	3.23	[illegible]	3.71*	4.90
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	08	08	[illegible]	[illegible]	[illegible]	[illegible]	08

DUBUQUE, IOWA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.02	.03	.05	.06	.09	.11	.13	.14	.15	.16	[illegible]	.16
DATE	10	10	[illegible]	10	10	10	10	10	10	10	[illegible]	10
TIME	[illegible]	1800	[illegible]	[illegible]	1815	[illegible]	1815	1815	1815	1815	1815	1815
FEB	.05	[illegible]	[illegible]	.10	.17	[illegible]	.28	.31	.35	.37	.43	[illegible]
DATE	24	24	24	24	24	24	24	24	24	24	24	24
TIME	0045	0045	0032	[illegible]	0048	0100	0115	0134	0158	0216	0246	0245
MAR	.09	[illegible]	[illegible]	[illegible]	.25	.26	.27	.33	.41	.53	.63	.67
DATE	21	21	21	21	[illegible]	21	21	21	[illegible]	[illegible]	21	21
TIME	1950	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2038	2058	2120	[illegible]	2210	[illegible]
APR	[illegible]	.18	.19	.21	[illegible]	.48	.59	.65	.82	.90	[illegible]	1.14
DATE	27	27	27	27	27	[illegible]	27	[illegible]	27	27	27	[illegible]
TIME	0422	0427	[illegible]	0435	0445	0458	[illegible]	0533	0555	0613	[illegible]	0708
MAY	.32	[illegible]	.45	[illegible]	.75	.75	.75	.75	.75	.75	.81	[illegible]
DATE	23	23	23	23	23	[illegible]	23	23	23	[illegible]	29	30
TIME	1458	1459	[illegible]	[illegible]	1516	[illegible]	1516	1516	1516	[illegible]	2359	[illegible]
JUN	.39	[illegible]	.54	.56	[illegible]	.58	.58	.58	.58	.58	.58	.62
DATE	[illegible]	[illegible]	14	14	14	[illegible]	14	[illegible]	14	14	14	14
TIME	[illegible]	1918	1918	[illegible]	1928	1930	[illegible]	1930	1930	1930	1930	1917
JUL	[illegible]	.14	.16	.18	.24	[illegible]	.48	.50	.57	.59	.62	.62
DATE	[illegible]	05	[illegible]	05	05	[illegible]	05	[illegible]	05	05	[illegible]	05
TIME	[illegible]	0830	[illegible]	[illegible]	[illegible]	0900	0912	0900	[illegible]	0938	0946	[illegible]
AUG	.50	[illegible]	1.12	[illegible]	1.41	[illegible]	1.64	1.80	1.92	1.95	1.98	1.98
DATE	[illegible]	[illegible]	[illegible]	[illegible]	22	22	22	22	[illegible]	[illegible]	[illegible]	22
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1720	1733	1748	1808	1830	1845	1900	[illegible]
SEP	[illegible]	[illegible]	.25	[illegible]	[illegible]	[illegible]	.49	.56	[illegible]	.68	.73	.75
DATE	[illegible]	29	[illegible]	29	[illegible]	29	29	[illegible]	29	29	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	0440	0440	0500	[illegible]	[illegible]	[illegible]	0550	[illegible]	0630
OCT	[illegible]	[illegible]	.16	.17	.18	[illegible]	.18	.18	.18	[illegible]	.18	.18
DATE	14	14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14	14	[illegible]	[illegible]	14
TIME	[illegible]	[illegible]	1213	1215	1220	1220	[illegible]	1220	1220	1220	1220	[illegible]
NOV	.34	[illegible]	[illegible]	.50	[illegible]	.55	[illegible]	.72	[illegible]	.87	.94	.98
DATE	09	09	[illegible]	[illegible]	09	09	29	29	29	29	29	29
TIME	1934	[illegible]	1943	[illegible]	2000	2010	1730	1750	[illegible]	1815	1840	1915
DEC	.03	.05	.05	.05	[illegible]	.09	[illegible]	.09	.09	.09	.09	[illegible]
DATE	[illegible]	[illegible]	14	14	14	14	14	[illegible]	14	14	14	14
TIME	0443	[illegible]	[illegible]	0445	0500	0530	0530	0530	0530	0530	0530	0530
YEAR	[illegible]	[illegible]	1.12	[illegible]	1.41	1.47	1.64	1.80	1.92	[illegible]	1.98	1.98
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	08

SIOUX CITY, IOWA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	.04	[illegible]	.06	.08	.09	.11	.14	.15	.17	.19	.20
DATE	[illegible]	02	02	02	02	02	18	18	18	18	[illegible]	[illegible]
TIME	0845	0846	0851	851	0850	0815	2005	2015	2020	2020	2035	2045
FEB	[illegible]	[illegible]	[illegible]	.02	.03	[illegible]	.05	.06	.07	.08	.10	.11
DATE	04	04	04	04	04	04	04	04	04	04	04	04
TIME	0645	[illegible]	0540	0540	0540	0540	0540	0540	0600	0645	0645	0740
MAR	[illegible]	.07	.09	.11	.16	.20	.27	.30	.32	.33	.35	.36
DATE	27	27	27	27	27	27	27	[illegible]	27	27	27	27
TIME	1720	0438	0438	0438	0438	0442	0507	0515	0535	[illegible]	0510	0535
APR	[illegible]	.29	[illegible]	.38	.48	.72	.82	.93	.98	1.01	1.06	1.16
DATE	26	26	[illegible]	26	26	26	26	26	26	26	26	26
TIME	0732	0449	0450	0455	[illegible]	0516	[illegible]	0550	0610	0600	0700	0732
MAY	[illegible]	[illegible]	[illegible]	.32	.43	[illegible]	.62	.77	.95	1.06	1.19	1.26
DATE	[illegible]	[illegible]	[illegible]	28	28	28	28	28	28	28	28	28
TIME	[illegible]	1655	[illegible]	0100	0105	0120	0135	0155	0215	0235	0305	0335
JUN	.23	.25	.26	.33	.41	.53	.68	.86	1.08	1.25	1.48	1.64
DATE	21	21	21	18	18	18	18	18	18	18	18	18
TIME	1216	1221	[illegible]	0525	0535	0545	0605	0625	0605	0620	0645	0715
JUL	.53	.83	.90	.91	.92	.94	.94	.94	.94	.94	.94	.94
DATE	19	19	19	19	19	19	19	19	19	19	19	19
TIME	0230	0235	0240	0245	0255	0310	0310	0310	0310	0310	0310	0310
AUG	.42	.71	.76	.88	1.07	1.14	1.21	1.25	1.28	1.29	1.31	1.32
DATE	01	01	01	[illegible]	[illegible]	01	01	01	01	01	01	01
TIME	[illegible]	1501	1505	1510	1515	1515	1520	1535	1600	1620	1650	1715
SEP	.11	.20	.22	.26	[illegible]	.51	.52	.53	.54	.54	.54	.54
DATE	11	11	11	11	11	11	11	11	11	11	11	11
TIME	0035	0040	0045	0050	0100	0115	0130	0150	0207	0207	0207	0207
OCT	.02	.02	.03	.03	.03	.03	.03	.03	.03	.03	.04	.04
DATE	23	23	23	23	23	23	23	23	23	23	23	23
TIME	1705	1710	1715	1718	1718	1718	1718	1718	1718	1718	1718	1718
NOV	.04	.08	.09	[illegible]	.14	.17	.22	.27	.31	.36	.46	.53
DATE	19	19	19	19	19	19	19	19	19	19	19	19
TIME	1450	1637	1452	1452	1452	1452	1452	1452	1452	1600	1605	1637
DEC	.10	[illegible]	.18	.18	.19	.19	.20	.20	.20	.21	.21	[illegible]
DATE	13	13	13	13	13	13	13	13	13	13	13	13
TIME	[illegible]	2050	2045	2055	2110	2110	2125	2125	[illegible]	2125	2125	2125
YEAR	.53	[illegible]	.90	.91	1.07	1.14	1.21	1.25	1.28	1.29	1.48	1.64
MONTH	07	07	07	07	08	08	08	08	08	08	06	06

WATERLOO, IOWA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	[illegible]	[illegible]	.05	.07	.09	.12	.14	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	02	[illegible]	02	[illegible]	02	02	02
TIME	[illegible]	[illegible]	1445	1450	[illegible]	1500	[illegible]	1535	[illegible]	1615	1645	[illegible]
FEB	[illegible]	[illegible]	.03	.04	.05	.08	.10	.14	[illegible]	[illegible]	.20	.22
DATE	[illegible]	[illegible]	17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17	[illegible]	[illegible]	17
TIME	0135	[illegible]	0145	0150	0200	[illegible]	0230	0247	0313	[illegible]	0300	0330
MAR	.10	[illegible]	.15	.20	.25	.28	[illegible]	.39	.41	.43	.43	.43
DATE	23	[illegible]	[illegible]	[illegible]	23	23	23	23	23	23	23	23
TIME	1717	[illegible]	[illegible]	[illegible]	1720	1720	1720	1807	[illegible]	[illegible]	1825	[illegible]
APR	.12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.33	[illegible]	.47	[illegible]	.51
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	23	23	[illegible]	23	23	23	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	0110	0125	0140	0200	[illegible]	0240	0310	0340
MAY	.20	[illegible]	[illegible]	[illegible]	.48	[illegible]	[illegible]	.49	.49	.49	.49	.49
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	05	05	05	[illegible]	05	[illegible]	[illegible]
TIME	0143	0145	[illegible]	0150	0200	0215	0230	0250	0310	[illegible]	[illegible]	0430
JUN	.22	.30	.42	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.54	[illegible]	[illegible]	.87
DATE	[illegible]	21	[illegible]	[illegible]	21	[illegible]	21	[illegible]	21	21	21	[illegible]
TIME	[illegible]	1813	[illegible]	[illegible]	[illegible]	[illegible]	1903	1924	1945	2004	[illegible]	2105
JUL	.36	[illegible]	[illegible]	.45	[illegible]	.49	.52	.54	[illegible]	.54	[illegible]	.54
DATE	23	[illegible]	[illegible]	23	[illegible]	23	23	23	[illegible]	23	[illegible]	23
TIME	[illegible]	[illegible]	[illegible]	0530	0540	0555	0610	0630	0650	[illegible]	[illegible]	0810
AUG	[illegible]	.34	.50	.54	[illegible]	[illegible]	.78	[illegible]	[illegible]	.85	[illegible]	1.31
DATE	19	[illegible]	[illegible]	19	[illegible]	19	19	19	[illegible]	[illegible]	19	19
TIME	0530	[illegible]	[illegible]	[illegible]	0545	0555	0610	0630	[illegible]	0715	[illegible]	[illegible]
SEP	[illegible]	[illegible]	.12	.14	[illegible]	.16	.17	.17	[illegible]	[illegible]	.20	.22
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	09	09	[illegible]	[illegible]	05	[illegible]
TIME	[illegible]	[illegible]	1005	[illegible]	[illegible]	1030	1045	1045	1045	1045	0535	[illegible]
OCT	[illegible]	[illegible]	[illegible]	.02	[illegible]	.02	.02	[illegible]	[illegible]	[illegible]	[illegible]	.02
DATE	[illegible]	[illegible]	24	[illegible]	24	[illegible]	[illegible]	[illegible]	24	[illegible]	[illegible]	24
TIME	0910	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0915	0915	0915	0915	[illegible]	0915
NOV	[illegible]	[illegible]	.20	[illegible]	.39	[illegible]	[illegible]	.52	[illegible]	[illegible]	[illegible]	.76
DATE	[illegible]	[illegible]	09	[illegible]	09	[illegible]	[illegible]	09	09	09	09	09
TIME	[illegible]	[illegible]	[illegible]	1812	1812	[illegible]	[illegible]	[illegible]	1812	[illegible]	1825	1825
DEC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.17	.18	[illegible]	[illegible]	.25	.25	.25
DATE	[illegible]	[illegible]	[illegible]	[illegible]	14	14	14	14	14	[illegible]	14	14
TIME	[illegible]	0135	[illegible]	[illegible]	0300	[illegible]	0305	0305	0305	0305	0305	0305
YEAR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.76	[illegible]	[illegible]	[illegible]	.85	[illegible]	1.31
MONTH	07	07	[illegible]	[illegible]	08	[illegible]	08	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

CONCORDIA, KANSAS

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	[illegible]	[illegible]	.06	.07	.10	.11	.12	.12	.14	.16
DATE	[illegible]	19	[illegible]	[illegible]	[illegible]	[illegible]	02	[illegible]	[illegible]	02	02	[illegible]
TIME	0005	0010	[illegible]	0400	0410	0425	[illegible]	0500	0520	0535	0605	0635
FEB	.03	[illegible]	.05	[illegible]	.09	[illegible]	[illegible]	[illegible]	.23	[illegible]	[illegible]	.37
DATE	16	03	[illegible]	[illegible]	[illegible]	[illegible]	03	[illegible]	[illegible]	[illegible]	03	03
TIME	[illegible]	2250	2245	2250	[illegible]	[illegible]	2300	2320	2340	2330	2315	2355
MAR	[illegible]	.12	[illegible]	[illegible]	.20	.24	.34	[illegible]	.42	.43	.47	.58
DATE	[illegible]	27	27	27	27	[illegible]	27	27	27	27	27	27
TIME	[illegible]	0343	[illegible]	0430	0430	0414	0430	0430	0452	1512	0558	0613
APR	.10	.14	[illegible]	.17	[illegible]	[illegible]	[illegible]	.36	.36	[illegible]	[illegible]	.36
DATE	07	[illegible]	[illegible]	26	[illegible]	[illegible]	07	[illegible]	07	07	07	07
TIME	1737	0430	0435	0440	[illegible]	1815	1830	1850	1910	1930	2000	2030
MAY	.20	.37	[illegible]	[illegible]	.38	.39	.48	.52	.53	.65	[illegible]	.73
DATE	27	27	27	27	27	[illegible]	27	27	27	[illegible]	29	29
TIME	2215	[illegible]	[illegible]	2230	2240	2255	2230	[illegible]	[illegible]	1850	1850	[illegible]
JUN	.36	.68	.76	[illegible]	[illegible]	1.31	1.49	1.55	1.55	1.59	1.76	1.87
DATE	21	18	[illegible]	18	[illegible]	18	[illegible]	[illegible]	18	21	21	21
TIME	2005	[illegible]	0320	[illegible]	0335	0350	0405	0445	0445	2145	2225	2245
JUL	.56	1.00	[illegible]	1.32	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45
DATE	[illegible]	[illegible]	[illegible]	23	23	23	23	[illegible]	[illegible]	23	[illegible]	23
TIME	1715	[illegible]	[illegible]	1725	1731	[illegible]	[illegible]	[illegible]	1812	[illegible]	1902	1932
AUG	[illegible]	.37	.41	.43	.50	.60	.80	.95	[illegible]	1.31	1.38	1.47
DATE	13	13	13	13	13	13	13	13	13	13	13	13
TIME	0850	0855	[illegible]	0905	2040	2053	2110	2130	[illegible]	2207	2240	[illegible]
SEP	[illegible]	[illegible]	.15	.15	.18	.22	[illegible]	.23	.25	.29	[illegible]	.35
DATE	[illegible]	29	29	[illegible]	10	10	[illegible]	[illegible]	[illegible]	[illegible]	30	30
TIME	2323	[illegible]	[illegible]	2339	[illegible]	2345	2345	0255	0255	0255	0320	0350
OCT	[illegible]	[illegible]	.29	.31	.34	.38	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	31	31	31	31	31	[illegible]	31	[illegible]	31	31	31	31
TIME	[illegible]	2330	2335	2337	2345	2359	2359	2359	2359	[illegible]	2359	2359
NOV	.06	[illegible]	.07	.08	.10	.14	.17	.21	.29	.33	[illegible]	.43
DATE	02	[illegible]	29	29	[illegible]	[illegible]	[illegible]	[illegible]	03	03	[illegible]	03
TIME	[illegible]	[illegible]	[illegible]	1435	1445	[illegible]	1735	1735	[illegible]	[illegible]	1735	[illegible]
DEC	[illegible]	[illegible]	.23	.27	.35	[illegible]	[illegible]	.51	.51	[illegible]	[illegible]	[illegible]
DATE	[illegible]	13	[illegible]	13	[illegible]	13	[illegible]	13	13	13	13	13
TIME	[illegible]	2127	2132	[illegible]	[illegible]	[illegible]	2217	[illegible]	[illegible]	2317	2347	2359
YEAR	[illegible]	1.00	1.10	1.32	1.45	1.45	[illegible]	1.55	1.55	[illegible]	1.76	1.87
MONTH	07	07	[illegible]	07	07	07	[illegible]	[illegible]	06	[illegible]	[illegible]	[illegible]

DODGE CITY, KANSAS

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.01	.02	.02	.03	[illegible]	.05	.05	.06	.07	.08	.10	.12
DATE	02	02	02	02	02	02	02	02	02	02	02	02
TIME	0305	0310	0315	[illegible]	[illegible]	0330	0345	0405	0425	0500	0515	0530
FEB	[illegible]	[illegible]	.02	.03	.04	.05	.07	.08	.09	.10	[illegible]	.14
DATE	16	16	16	16	16	16	16	16	16	16	16	16
TIME	0615	0515	0615	0615	0615	0615	0645	0645	0630	0715	0715	0630
MAR	.01	.02	.03	.03	[illegible]	.06	.07	.09	.11	[illegible]	.12	.15
DATE	15	15	15	15	15	15	15	15	15	15	15	15
TIME	1300	1330	1500	1500	1500	1500	1500	1500	1500	[illegible]	1500	1530
APR	.17	.29	.36	.40	.46	.70	.79	.88	1.00	1.03	1.21	1.29
DATE	07	07	07	07	07	07	07	07	07	07	07	07
TIME	1550	1550	1550	1550	1550	1550	1550	1550	1630	1605	1650	1640
MAY	.39	.51	.53	.57	.58	.59	.59	.60	.60	.61	.69	.70
DATE	04	04	04	04	04	04	04	04	04	28	28	28
TIME	[illegible]	1710	1710	1715	1725	1740	1752	1740	1741	2225	2255	2325
JUN	.32	.44	.45	.47	[illegible]	.69	.72	.73	.89	.89	.91	.94
DATE	23	23	23	23	20	21	21	21	23	23	23	21
TIME	[illegible]	0142	0145	0145	2350	0005	0020	0040	0152	0212	0242	0220
JUL	.30	.44	.53	[illegible]	.86	[illegible]	1.07	1.09	1.38	1.49	1.50	1.55
DATE	06	06	06	06	06	06	06	06	06	06	06	06
TIME	2007	2129	2134	[illegible]	2149	2204	2152	2212	2142	[illegible]	2232	[illegible]
AUG	[illegible]	.33	.37	.39	[illegible]	[illegible]	.40	.40	.46	.49	.49	.49
DATE	01	[illegible]	01	01	01	01	01	19	01	01	01	01
TIME	1835	[illegible]	1845	1850	1900	1915	1930	0332	2010	2018	2018	2018
SEP	.08	[illegible]	.09	.09	.09	.09	.09	.09	.09	[illegible]	.09	.09
DATE	10	10	10	10	10	10	10	10	10	10	10	10
TIME	0400	0409	0410	0430	[illegible]	0450	0450	0450	0450	0450	0450	0450
OCT	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
DATE	31	31	31	31	31	31	31	31	31	31	31	31
TIME	[illegible]	2158	2203	2208	[illegible]	2210	2210	2210	2210	[illegible]	2210	2210
NOV	[illegible]	[illegible]	.22	.23	.27	.29	.33	.36	.37	.37	.38	.41
DATE	01	01	01	[illegible]	01	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19	19
TIME	1652	1659	1658	1703	1713	1728	1743	1750	[illegible]	1830	0830	0900
DEC	.06	[illegible]	.10	.13	.20	[illegible]	[illegible]	.20	.20	.20	.20	.20
DATE	13	13	13	13	13	13	13	13	13	13	13	13
TIME	1924	[illegible]	1934	1939	1949	2004	2008	2028	2048	2108	2138	[illegible]
YEAR	.39	.51	.53	[illegible]	.86	.90	1.07	1.09	1.38	1.49	1.50	1.55
MONTH	05	05	07+	07	07	07	07	07	07	07	07	07

MAXIMUM SHORT DURATION PRECIPITATION

[illegible]

MAXIMUM SHORT DURATION PRECIPITATION

YEAR 1975

Maximum precipitation in inches (… 180 minutes)

LAKE CHARLES, LOUISIANA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.34	.54	[illegible]	.84	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.73	[illegible]	2.46
DATE	7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7	7
TIME	[illegible]	1154	[illegible]	[illegible]	[illegible]	1215	[illegible]	1230	[illegible]	1239	[illegible]	1248
FEB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.15	[illegible]	.32	.36	.36	.36
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MAR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.73	.73	.73	.73
DATE	[illegible]	[illegible]	[illegible]	[illegible]	18	18	[illegible]	[illegible]	18	18	18	18
TIME	[illegible]	2235	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0315	0315	0315	305
APR	.75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.72	3.03
DATE	[illegible]	21	[illegible]	[illegible]	[illegible]	21	21	[illegible]	21	[illegible]	[illegible]	[illegible]
TIME	[illegible]	1339	1348	1433	1353	1353	1425	1433	1433	1433	1433	1433
MAY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.38	1.45	[illegible]	1.55	[illegible]	[illegible]	1.60
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	29
TIME	[illegible]	1330	1332	[illegible]	[illegible]	2332	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
JUN	.43	.64	.75	.92	1.15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.25
DATE	28	28	28	28	28	28	28	28	28	28	28	28
TIME	[illegible]	1754	1755	1759	1805	1818	1833	1853	1911	1933	[illegible]	2033
JUL	[illegible]	.85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.2	[illegible]	[illegible]	[illegible]	2.27
DATE	[illegible]	21	[illegible]	21	21	21	21	[illegible]	21	[illegible]	21	22
TIME	[illegible]	2147	2147	2147	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
AUG	[illegible]	[illegible]	[illegible]	[illegible]	.62	.73	[illegible]	.8	.84	.87	.93	.94
DATE	[illegible]	24	24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1354	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SEP	.33	.75	[illegible]	[illegible]	2.25	2.35	3.70	3.9	[illegible]	[illegible]	3.70	3.9
DATE	[illegible]	16	16	16	16	16	16	[illegible]	16	[illegible]	16	16
TIME	[illegible]	[illegible]	1826	1838	1848	1903	1918	1938	1943	2004	[illegible]	[illegible]
OCT	.29	.37	.35	.37	[illegible]	[illegible]	.42	.44	.44	.44	.44	.44
DATE	[illegible]	23	23	[illegible]	23	[illegible]	23	[illegible]	[illegible]	[illegible]	23	23
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1153	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1152	[illegible]
NOV	[illegible]	[illegible]	[illegible]	[illegible]	.75	[illegible]	[illegible]	[illegible]	[illegible]	2.40	2.55	2.65
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DEC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.33	.42	[illegible]	[illegible]	.72	[illegible]	[illegible]
DATE	24	[illegible]	24	[illegible]	24	24	24	[illegible]	24	24	[illegible]	24
TIME	343	2343	2343	2343	2343	2343	2343	[illegible]	2343	2343	2343	2343
YEAR	[illegible]	.95	[illegible]	[illegible]	2.25	2.9	3.7	3.9	[illegible]	[illegible]	[illegible]	3.9
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	09	09	[illegible]	09	09	09	09	09

SHREVEPORT, LOUISIANA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.17	[illegible]	.35	[illegible]	[illegible]	.54	[illegible]	.66	[illegible]	.72	[illegible]	.82
DATE	31	31	31	31	31	31	[illegible]	[illegible]	[illegible]	[illegible]	31	31
TIME	[illegible]	2137	2141	2151	[illegible]	2151	[illegible]	0427	0447	[illegible]	[illegible]	2200
FEB	[illegible]	[illegible]	[illegible]	[illegible]	.26	.28	.36	.43	.49	[illegible]	[illegible]	.67
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15	15	15	15	15	[illegible]	[illegible]
TIME	1538	[illegible]	1548	[illegible]	[illegible]	[illegible]	1723	1743	1803	1803	1853	1923
MAR	.23	.44	.45	[illegible]	.9	.94	[illegible]	1.06	[illegible]	1.09	[illegible]	[illegible]
DATE	[illegible]	25	25	25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	2058	[illegible]	2058	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
APR	.42	.63	.82	.88	[illegible]	[illegible]	[illegible]	1.28	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	29	29	29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	29	[illegible]	29
TIME	[illegible]	[illegible]	2103	2105	2115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2259	[illegible]
MAY	[illegible]	.57	[illegible]	[illegible]	[illegible]	.8	.82	.84	.84	.86	[illegible]	.89
DATE	[illegible]	[illegible]	20	20	20	[illegible]	20	[illegible]	[illegible]	20	20	20
TIME	[illegible]	[illegible]	[illegible]	2137	2137	[illegible]	2153	[illegible]	2153	2154	[illegible]	2154
JUN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.21	[illegible]	[illegible]
DATE	15	[illegible]	[illegible]	15	15	15	[illegible]	[illegible]	[illegible]	15	[illegible]	15
TIME	[illegible]	[illegible]	1633	1633	[illegible]	1643	1659	[illegible]	[illegible]	[illegible]	[illegible]	1857
JUL	.32	.5	[illegible]	.8	[illegible]	.92	.94	[illegible]	1.15	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1545	[illegible]	[illegible]
AUG	.23	.37	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.02	[illegible]
DATE	3	[illegible]	[illegible]	[illegible]	[illegible]	3	[illegible]	3	[illegible]	[illegible]	[illegible]	3
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1224	[illegible]	[illegible]	1315	1335	[illegible]	1435
SEP	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.34	.37	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	2357	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0942
OCT	.33	.58	[illegible]	.80	.95	.98	.95	.97	[illegible]	1.10	1.44	1.57
DATE	[illegible]	[illegible]	24	[illegible]	24	[illegible]	[illegible]	[illegible]	24	[illegible]	24	24
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2256
NOV	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DEC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.43
DATE	[illegible]	28	29	28	[illegible]	28	5	5	[illegible]	15	15	15
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2045	[illegible]	[illegible]	[illegible]
YEAR	.42	[illegible]	.92	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.57
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10

BALTIMORE, MARYLAND

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.33	[illegible]	.43
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
FEB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.53	[illegible]	.64
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MAR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.05
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1405
APR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.47
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MAY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.77
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
JUN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
JUL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
AUG	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SEP	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.35
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
OCT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1658	[illegible]	[illegible]	[illegible]
NOV	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DEC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.83	[illegible]	[illegible]	1.24
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2348	[illegible]	[illegible]	[illegible]
YEAR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.43
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Maximum precipitation in inches (… 180 minutes)

NEW ORLEANS, LOUISIANA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	.35	.39	.45	[illegible]	.53	.62	.65	.65	.65	[illegible]	.72
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10	10	[illegible]	[illegible]	[illegible]	[illegible]	07
TIME	[illegible]	1223	1235	[illegible]	[illegible]	1245	1258	[illegible]	[illegible]	1338	[illegible]	1700
FEB	[illegible]	[illegible]	.47	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.29	1.30
DATE	[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2	[illegible]	[illegible]	21
TIME	[illegible]	[illegible]	1845	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MAR	.33	[illegible]	.49	.54	[illegible]	[illegible]	[illegible]	[illegible]	1.55	[illegible]	[illegible]	1.57
DATE	18	[illegible]	18	18	18	18	18	18	18	18	18	18
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0726	[illegible]	0802	[illegible]	0804
APR	[illegible]	.70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.12	2.16	2.18	2.17
DATE	3	[illegible]	[illegible]	14	14	14	14	[illegible]	14	14	14	14
TIME	[illegible]	[illegible]	1754	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1032	[illegible]	1139
MAY	[illegible]	.67	.72	[illegible]	[illegible]	.96	[illegible]	[illegible]	1.92	1.95	1.96	1.99
DATE	[illegible]	[illegible]	[illegible]	[illegible]	29	29	[illegible]	[illegible]	29	29	29	29
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1938	[illegible]	[illegible]	[illegible]	[illegible]	2049	[illegible]	2200
JUN	.65	.85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.14	[illegible]	2.14
DATE	[illegible]	1	1	08	[illegible]	8	08	08	8	08	08	08
TIME	[illegible]	[illegible]	2216	[illegible]	[illegible]	[illegible]	845	0901	[illegible]	0944	0944	0944
JUL	.28	.55	.40	.68	.74	.79	[illegible]	.82	.82	1.07	1.21	1.33
DATE	[illegible]	3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	04	[illegible]	11	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	2317	[illegible]	2346	[illegible]	[illegible]	0959	0855	[illegible]
AUG	.49	.97	[illegible]	1.62	[illegible]	[illegible]	[illegible]	2.19	[illegible]	2.58	[illegible]	4.23
DATE	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	01	01	01	[illegible]
TIME	[illegible]	[illegible]	827	[illegible]	[illegible]	[illegible]	845	[illegible]	0840	0831	[illegible]	0840
SEP	.38	.59	.66	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.18
DATE	[illegible]	8	09	08	8	8	08	08	8	08	08	08
TIME	[illegible]	1408	1418	[illegible]	[illegible]	1432	1433	1445	1506	1511	[illegible]	1511
OCT	.38	.73	.82	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.09	1.10	[illegible]	1.12
DATE	15	15	[illegible]	15	15	15	15	15	15	15	15	15
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1954	[illegible]	1903	[illegible]	1951
NOV	.67	[illegible]	1.57	[illegible]	[illegible]	3.3	[illegible]	5.93	[illegible]	7.60	[illegible]	8.30
DATE	[illegible]	[illegible]	5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	1343	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1533	1543
DEC	[illegible]	.29	[illegible]	.32	.53	.54	.54	.55	.57	.57	.74	.74
DATE	[illegible]	6	[illegible]	[illegible]	06	6	[illegible]	06	[illegible]	06	06	06
TIME	1724	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	173	[illegible]	1808	1808	1745	1745
YEAR	.57	[illegible]	[illegible]	[illegible]	[illegible]	3.3	[illegible]	5.93	[illegible]	7.60	[illegible]	9.30
MONTH	[illegible]	[illegible]	[illegible]	11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1	[illegible]	[illegible]

CARIBOU, MAINE

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	.15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.26	[illegible]	.37
DATE	[illegible]	[illegible]	24	26	[illegible]	26	[illegible]	[illegible]	25	26	26	26
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
FEB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.20	[illegible]	.22	[illegible]	.29
DATE	[illegible]	[illegible]	25	25	[illegible]	[illegible]	25	[illegible]	[illegible]	25	25	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MAR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.08	[illegible]	.12	[illegible]	.17
DATE	[illegible]	[illegible]	21	[illegible]	21	[illegible]	[illegible]	[illegible]	[illegible]	08	09	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
APR	[illegible]	[illegible]	.04	[illegible]	.06	.08	[illegible]	[illegible]	[illegible]	[illegible]	.20	.23
DATE	[illegible]	24	24	[illegible]	[illegible]	19	[illegible]	[illegible]	[illegible]	04	04	04
TIME	[illegible]	1350	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0455	[illegible]	[illegible]	0355	0415
MAY	[illegible]	[illegible]	[illegible]	.32	.47	.54	.57	.62	[illegible]	[illegible]	.78	.83
DATE	[illegible]	20	20	[illegible]	2	[illegible]	20	[illegible]	[illegible]	[illegible]	2	20
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2150	[illegible]	[illegible]	[illegible]	2325	[illegible]
JUN	[illegible]	[illegible]	.14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.18	.19	[illegible]	.24
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3	3	3	3	[illegible]	[illegible]	3
TIME	[illegible]	[illegible]	0350	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0230	0230	0230	[illegible]
JUL	.30	.49	.54	.82	.84	[illegible]	[illegible]	1.03	[illegible]	1.08	1.08	1.09
DATE	[illegible]	[illegible]	[illegible]	15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15	15	15
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1150
AUG	[illegible]	[illegible]	.17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.29
DATE	[illegible]	5	05	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	05	[illegible]	05
TIME	[illegible]	[illegible]	1900	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SEP	[illegible]	[illegible]	.18	.25	.33	[illegible]	.44	.48	[illegible]	[illegible]	[illegible]	.70
DATE	[illegible]	12	12	12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	1130	[illegible]	[illegible]	1145	1205	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
OCT	[illegible]	[illegible]	.06	[illegible]	[illegible]	[illegible]	[illegible]	.14	.16	[illegible]	[illegible]	.20
DATE	[illegible]	[illegible]	26	[illegible]	[illegible]	[illegible]	26	[illegible]	[illegible]	[illegible]	[illegible]	20
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1567
NOV	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.28	.32	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	2250	2255	[illegible]	2255	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DEC	[illegible]	[illegible]	.11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.35	.39	[illegible]	.52
DATE	[illegible]	26	26	[illegible]	[illegible]	[illegible]	26	[illegible]	[illegible]	26	26	[illegible]
TIME	[illegible]	2020	2025	[illegible]	[illegible]	[illegible]	[illegible]	1950	1950	2010	[illegible]	2010
YEAR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.96	[illegible]	1.03	[illegible]	1.08	[illegible]	1.09
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

BLUE HILL, MA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	.12	.17	.24	.25	[illegible]	.46	.48	.57	.67	.74
DATE	7	07	07	[illegible]	[illegible]	7	[illegible]	7	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	0945	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1000
FEB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.25	.26	[illegible]	[illegible]
DATE	[illegible]	[illegible]	24	[illegible]	24	[illegible]	[illegible]	[illegible]	24	[illegible]	24	24
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	345
MAR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.27	[illegible]	.33	.35	.37	[illegible]	.44
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0045	[illegible]	[illegible]	0655	0655	0655	0655
APR	[illegible]	[illegible]	.19	[illegible]	[illegible]	.48	.61	.79	.94	[illegible]	[illegible]	1.31
DATE	[illegible]	3	[illegible]	[illegible]	[illegible]	3	03	[illegible]	[illegible]	[illegible]	3	03
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1440	[illegible]	[illegible]	1440	[illegible]	1440
MAY	[illegible]	[illegible]	.45	.78	.95	[illegible]	1.36	[illegible]	1.56	1.59	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2200
JUN	[illegible]	.47	.46	[illegible]	.97	[illegible]	1.24	[illegible]	[illegible]	1.32	1.34	[illegible]
DATE	[illegible]	6	06	[illegible]	[illegible]	[illegible]	06	[illegible]	[illegible]	06	[illegible]	[illegible]
TIME	[illegible]	[illegible]	0840	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0905	[illegible]
JUL	[illegible]	[illegible]	.35	[illegible]	.47	.68	.68	.93	.93	.93	.93	.93
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10
TIME	[illegible]	[illegible]	0400	[illegible]	[illegible]	[illegible]	[illegible]	0432	0432	[illegible]	0432	0432
AUG	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.55	.65	.84	[illegible]	[illegible]	[illegible]
DATE	[illegible]	29	29	[illegible]	[illegible]	29	[illegible]	[illegible]	29	29	29	29
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SEP	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.42	.45	[illegible]	[illegible]	.63	.78	.87
DATE	27	27	27	[illegible]	27	27	27	27	27	27	27	27
TIME	[illegible]	[illegible]	0350	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0400
OCT	[illegible]	[illegible]	.30	.35	[illegible]	[illegible]	[illegible]	.81	.90	1.20	1.47	[illegible]
DATE	[illegible]	18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18	[illegible]	[illegible]	[illegible]	18
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
NOV	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.84
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DEC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.25	.34	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	0115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0445	0445	0445
YEAR	.35	[illegible]	.46	[illegible]	.95	[illegible]	[illegible]	1.52	1.56	1.59	1.59	[illegible]
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Maximum precipitation in inches (… 180 minutes)

NEW ORLEANS, AUDBON LOUISIANA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.30	.5	.41	.69	.8	.87	.92	.93	.94	.94	.94	.94
DATE	10	10	10	10	10	10	10	10	10	10	10	10
TIME	1235	1240	1245	1250	1300	1315	1330	[illegible]	[illegible]	1430	1500	1530
FEB	.85	[illegible]	1.40	1.65	1.75	1.80	1.82	1.85	1.95	2.07	2.12	2.15
DATE	21	21	21	21	21	21	21	17	17	17	17	17
TIME	1905	[illegible]	1905	[illegible]	1920	1935	1650	[illegible]	0320	0325	0355	0925
MAR	M	M	M	M	M	M	M	M	M	1.38	1.38	1.38
DATE										18	18	18
TIME										0740	0740	0740
APR	.40	.65	.72	.82	.90	.92	.93	.96	1.03	1.13	1.13	1.13
DATE	3	30	30	30	30	30	30	30	30	30	30	30
TIME	1755	1800	1805	1810	1820	1835	1850	1910	1930	1950	2020	2050
MAY	.35	.55	.70	.80	.92	1.00	1.07	1.10	1.23	1.39	1.44	1.53
DATE	08	08	13	13	13	29	29	29	29	29	29	29
TIME	1255	0410	1240	1255	1315	2200	2200	2220	2145	2210	2235	2215
JUN	.45	.79	1.15	1.40	1.74	1.9	2.12	2.30	2.36	2.38	2.38	2.38
DATE	29	29	29	29	29	29	29	29	29	29	29	29
TIME	1105	1110	1115	1120	1130	1145	1200	1210	1230	1245	1315	1345
JUL	.35	.49	.50	.6	.75	.96	.99	1.09	1.14	1.14	1.14	1.14
DATE	18	18	18	22	02	02	2	02	02	02	02	02
TIME	[illegible]	1150	1155	[illegible]	1144	1159	[illegible]	1231	1256	1256	1256	1256
AUG	.40	.65	.75	.78	.80	1.07	1.22	1.31	1.45	1.46	1.62	1.70
DATE	01	01	01	01	08	08	08	08	08	08	01	01
TIME	0845	0850	0855	0855	133	133	1345	1330	1355	1415	0925	0925
SEP	.23	.25	.30	.34	.40	.42	.55	.56	.58	.58	.58	.63
DATE	[illegible]	16	16	16	16	11	11	11	11	11	11	16
TIME	1310	2350	2350	235	235	1310	1325	1345	1400	1400	1400	2305
OCT	.15	.22	.27	.29	.33	.42	.50	.65	.71	.82	.93	1.05
DATE	16	16	16	16	16	16	16	16	16	16	16	16
TIME	0850	1300	1300	1300	1305	[illegible]	0945	1000	1020	1045	1115	[illegible]
NOV	.15	.22	.23	.3	.35	.42	.48	.52	.55	.6	.63	.70
DATE	14	14	09	09	09	09	09	09	9	09	09	09
TIME	0410	0415	0445	0450	0455	0510	0520	0545	0600	0620	0650	0710
DEC	.15	.22	.25	.3	.35	.50	.59	.75	.95	1.00	1.10	1.15
DATE	29	29	29	29	29	29	29	29	29	29	29	29
TIME	0115	0115	0120	0125	0230	0245	0205	0225	0245	0245	0315	0345
YEAR	.65	1.00	1.40	1.65	1.75	1.91	2.12	2.30	2.36	2.38	2.38	2.38
MONTH	02	02	02	02	02	06	06	06	06	06	06	06

PORTLAND, MAINE

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.04	.06	.07	.08	.09	.14	.18	.24	.25	.26	.34	.40
DATE	29	29	25	25	25	25	25	25	25	25	25	25
TIME	1242	1242	2045	2040	2030	1948	2003	2003	2003	1900	1817	1817
FEB	.03	.04	.05	.06	.07	.08	.12	.14	.16	.22	.26	.30
DATE	25	25	24	24	24	24	24	24	24	24	24	24
TIME	0828	0730	1614	1614	1614	1614	1458	1438	1330	1856	1732	1757
MAR	.05	.07	.08	[illegible]	.14	.17	.20	.23	.25	.29	.32	.33
DATE	20	20	20	20	20	20	20	20	20	20	20	20
TIME	1957	2002	2007	2012	2022	2037	2052	2034	2054	0623	0653	0630
APR	.08	.14	.21	.27	.37	.50	.66	.73	.86	1.10	1.33	1.50
DATE	03	03	03	03	03	03	03	03	03	03	03	03
TIME	1642	1648	1652	1652	1659	1628	1730	1730	1730	1730	1745	1745
MAY	.12	.24	.24	.25	.26	.26	.26	.26	.26	.26	.26	.33
DATE	27	27	27	27	27	27	27	27	27	27	27	31
TIME	0412	[illegible]	0417	0422	0432	0432	0432	0432	0432	0432	0432	0351
JUN	.04	.07	.11	.12	.18	.21	.32	.39	.45	.47	.55	.59
DATE	03	03	03	06	06	06	06	06	06	06	06	06
TIME	2348	2353	2353	0904	0930	0945	1000	1012	1012	1030	1100	1130
JUL	.26	.46	.47	.47	.47	.47	.47	.47	.47	.47	.47	.47
DATE	16	16	16	16	16	16	16	16	16	16	16	16
TIME	[illegible]	1434	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440
AUG	.09	.14	.15	.15	.15	.17	.25	.32	.44	.47	.50	.62
DATE	12	12	12	12	12	30	30	30	30	30	30	30
TIME	1522	1527	1532	1532	1532	0316	0316	0316	0316	0335	0335	0400
SEP	.18	.25	.27	.32	.43	.46	.52	.57	.65	.68	.73	.78
DATE	27	27	27	27	27	27	27	27	27	27	27	27
TIME	0501	0506	0506	0506	0506	0515	0535	0600	0535	0550	0620	0650
OCT	.05	.08	.10	.13	.18	.24	.28	.34	.43	.47	.52	.54
DATE	18	18	20	20	20	20	20	20	20	20	20	20
TIME	0953	0958	0717	0722	0732	0747	0802	0822	0844	0904	0904	0904
NOV	.13	.15	.16	.2	.3	.38	.46	.55	.66	.74	.84	.95
DATE	10	10	10	27	27	27	27	27	27	27	27	27
TIME	1555	[illegible]	1602	1548	1558	1607	1622	1558	1650	1650	1650	1650
DEC	.18	.23	.25	.29	.44	.54	.72	.85	1.08	1.22	1.34	1.44
DATE	10	10	10	10	10	10	10	10	10	10	10	10
TIME	0311	[illegible]	0321	0326	0336	0351	0406	0426	0446	0506	0515	0515
YEAR	.26	[illegible]	.47	.47	.47	.54	.72	.85	1.08	1.22	1.34	1.50
MONTH	07	07	07	07	07	12	12	12	12	12	12	04

BOSTON, MASSACHUSETTS

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.06	[illegible]	.18	.22	[illegible]	.37	.44	.64	.78	.81	.95	1.01
DATE	07	07	07	07	07	07	07	07	7	07	07	07
TIME	1005	1010	1015	1020	1030	[illegible]	1000	[illegible]	[illegible]	[illegible]	1055	1100
FEB	[illegible]	.08	.10	.11	.12	[illegible]	.16	.20	.20	[illegible]	.23	.30
DATE	24	24	24	24	24	24	24	24	24	24	24	24
TIME	[illegible]	2033	2038	2041	2045	[illegible]	1415	1437	1452	1414	1515	1415
MAR	[illegible]	[illegible]	.14	.19	.26	.27	.32	.34	.35	.36	.38	.42
DATE	19	19	19	19	19	19	19	19	19	19	19	19
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0655	0715	[illegible]	0730	0730	0730
APR	[illegible]	[illegible]	.10	[illegible]	[illegible]	[illegible]	.33	.48	.52	.62	.75	.84
DATE	03	03	03	03	03	03	03	03	03	03	03	03
TIME	1340	1345	1345	[illegible]	[illegible]	1500	[illegible]	[illegible]	[illegible]	1500	1500	1500
MAY	.09	[illegible]	.20	.25	.30	.33	.36	.40	.42	.44	.45	.47
DATE	[illegible]	3	13	13	13	13	13	13	13	13	13	13
TIME	0835	0830	0832	0832	0845	0900	[illegible]	0932	0950	1013	1045	[illegible]
JUN	.12	.19	[illegible]	.27	.34	[illegible]	[illegible]	.43	.44	.45	.48	.52
DATE	[illegible]	06	06	06	06	6	06	06	06	06	06	06
TIME	[illegible]	0841	0838	0844	0848	0900	[illegible]	0910	0910	0910	0910	0910
JUL	.08	[illegible]	.23	.23	.23	.24	.24	.28	.30	.36	.45	.48
DATE	13	13	13	13	13	13	13	12	12	12	12	12
TIME	[illegible]	0723	0729	0729	0729	0732	732	0955	[illegible]	[illegible]	1006	[illegible]
AUG	[illegible]	[illegible]	.23	.3	.39	.48	.64	.77	[illegible]	[illegible]	1.20	1.39
DATE	30	[illegible]	30	30	30	3	30	30	30	30	30	30
TIME	[illegible]	[illegible]	0545	[illegible]	[illegible]	[illegible]	550	0550	[illegible]	[illegible]	0555	0630
SEP	[illegible]	.2	.23	.23	.24	[illegible]	.25	[illegible]	[illegible]	.45	.51	.59
DATE	26	26	26	26	23	23	23	23	23	[illegible]	23	23
TIME	0850	0850	0850	[illegible]	[illegible]	0650	0700	0720	0740	[illegible]	0800	0800
OCT	[illegible]	[illegible]	.20	[illegible]	.29	.32	.35	.40	[illegible]	[illegible]	.69	.86
DATE	[illegible]	25	25	25	[illegible]	25	25	[illegible]	18	18	18	18
TIME	[illegible]	[illegible]	1523	[illegible]	1523	[illegible]	[illegible]	1545	[illegible]	1200	[illegible]	[illegible]
NOV	[illegible]	[illegible]	.15	[illegible]	[illegible]	[illegible]	.38	.42	[illegible]	[illegible]	.73	.92
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13	13	13	[illegible]	[illegible]	[illegible]	13
TIME	[illegible]	[illegible]	1559	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DEC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.25	.33	.35	.44	.47
DATE	[illegible]	10	[illegible]	10	[illegible]	[illegible]	26	26	26	26	26	26
TIME	[illegible]	[illegible]	[illegible]	0135	[illegible]	[illegible]	[illegible]	1500	[illegible]	1500	[illegible]	[illegible]
YEAR	[illegible]	[illegible]	.23	[illegible]	.39	.48	.64	.77	.90	1.00	[illegible]	[illegible]
MONTH	[illegible]	[illegible]	[illegible]	08	08	08	08	08	08	08	08	08

MAXIMUM SHORT DURATION PRECIPITATION

ALPENA, MICHIGAN

GRAND RAPIDS, MICHIGAN

MARQUETTE, MICHIGAN

MAXIMUM SHORT DURATION PRECIPITATION

Maximum precipitation in inches for [illegible] 180 minutes

DULUTH, MINNESOTA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	[illegible]	.10	[illegible]	.17	[illegible]	.28	.34	.38	[illegible]	.48
DATE	[illegible]	10	[illegible]	10	10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10
TIME	[illegible]	[illegible]	[illegible]	2032	2032	[illegible]	1745	1728	1713	1653	1619	1544
FEB	[illegible]	.02	[illegible]	.03	[illegible]	[illegible]	[illegible]	[illegible]	.10	.11	.13	.17
DATE	[illegible]	[illegible]	[illegible]	[illegible]	21	21	21	21	21	21	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1628	[illegible]	1628	1655	[illegible]	1700	0550	0730
MAR	[illegible]	.09	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.18	.20	.25	.28
DATE	[illegible]	27	[illegible]	[illegible]	27	[illegible]	[illegible]	[illegible]	27	[illegible]	27	[illegible]
TIME	[illegible]	[illegible]	[illegible]	0901	[illegible]	0845	[illegible]	0953	1013	[illegible]	[illegible]	1132
APR	[illegible]	[illegible]	[illegible]	[illegible]	.14	[illegible]	.17	[illegible]	.24	.27	.29	.32
DATE	[illegible]	[illegible]	26	[illegible]	[illegible]	[illegible]	26	[illegible]	23	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2035	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0205
MAY	[illegible]	[illegible]	.18	.21	[illegible]	.24	.26	.29	.29	[illegible]	.30	.32
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	20	20	20	[illegible]	20	[illegible]	[illegible]
TIME	[illegible]	2100	[illegible]	[illegible]	2120	[illegible]	2147	2205	2225	2245	[illegible]	[illegible]
JUN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.65	.65	.65
DATE	[illegible]	[illegible]	29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	29	[illegible]
TIME	[illegible]	0214	0218	0223	0233	0248	[illegible]	0323	[illegible]	[illegible]	0433	[illegible]
JUL	[illegible]	.24	[illegible]	[illegible]	.45	.54	.57	.61	.65	[illegible]	.76	.80
DATE	[illegible]	[illegible]	[illegible]	[illegible]	02	02	[illegible]	02	02	[illegible]	02	02
TIME	[illegible]	0245	[illegible]	[illegible]	[illegible]	[illegible]	0330	[illegible]	[illegible]	[illegible]	0500	0530
AUG	[illegible]	[illegible]	[illegible]	[illegible]	.39	[illegible]	[illegible]	[illegible]	.42	.42	.42	.42
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24	24	24	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0349	0820	0847	[illegible]	0847	0847
SEP	[illegible]	[illegible]	.20	[illegible]	[illegible]	.32	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.89
DATE	[illegible]	18	[illegible]	[illegible]	[illegible]	18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18
TIME	[illegible]	[illegible]	[illegible]	1004	[illegible]	[illegible]	1004	1004	1004	[illegible]	1012	1028
OCT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.45	[illegible]	.51	[illegible]	.55	.58
DATE	[illegible]	24	[illegible]	24	24	24	24	[illegible]	24	[illegible]	24	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	0138	[illegible]	0202	[illegible]	[illegible]	0235	0235	[illegible]
NOV	[illegible]	[illegible]	[illegible]	[illegible]	.08	.12	.16	[illegible]	.25	.28	.32	.38
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	20	[illegible]	20
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0345	[illegible]	0420	0445	0445	0415	0445
DEC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.06	.10	[illegible]	.12	.13	.16
DATE	[illegible]	10	[illegible]	[illegible]	[illegible]	10	[illegible]	19	19	[illegible]	19	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0355	0410	1330	[illegible]	[illegible]	[illegible]	1435
YEAR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.64	.64	.65	[illegible]	.82	.89
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	06	[illegible]	06	[illegible]	07	[illegible]	09	09

ROCHESTER, MINNESOTA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.05	.08	[illegible]	[illegible]	.11	.13	.16	.19	.22	.23	.26	.30
DATE	[illegible]	[illegible]	[illegible]	[illegible]	10	[illegible]	10	10	10	10	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1750	1750	1750	[illegible]	1750	1750
FEB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.05	[illegible]	[illegible]	[illegible]	[illegible]	.12
DATE	[illegible]	[illegible]	[illegible]	[illegible]	24	[illegible]	24	24	24	24	24	24
TIME	[illegible]	0918	0823	[illegible]	[illegible]	[illegible]	[illegible]	1420	1440	1500	1530	1600
MAR	[illegible]	.04	[illegible]	[illegible]	.12	[illegible]	[illegible]	.22	.23	.23	.26	.26
DATE	[illegible]	[illegible]	[illegible]	[illegible]	23	[illegible]	23	[illegible]	23	23	23	23
TIME	[illegible]	[illegible]	[illegible]	1820	[illegible]	1820	1830	1845	1845	1900	1900	1930
APR	[illegible]	[illegible]	[illegible]	.20	.24	[illegible]	.35	.44	.56	[illegible]	[illegible]	.83
DATE	[illegible]	[illegible]	23	23	23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	27	27
TIME	[illegible]	[illegible]	[illegible]	[illegible]	0035	0050	[illegible]	2255	2318	[illegible]	2329	[illegible]
MAY	[illegible]	[illegible]	[illegible]	[illegible]	.13	[illegible]	.18	.26	.27	.27	.28	.30
DATE	[illegible]	[illegible]	[illegible]	07	[illegible]	[illegible]	[illegible]	[illegible]	11	11	11	28
TIME	[illegible]	[illegible]	[illegible]	1405	[illegible]	[illegible]	1710	1734	[illegible]	1810	1840	1900
JUN	[illegible]	.31	[illegible]	[illegible]	[illegible]	[illegible]	.53	.56	[illegible]	.78	.85	[illegible]
DATE	[illegible]	[illegible]	[illegible]	17	[illegible]	18	18	18	[illegible]	18	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1130	[illegible]	1137	[illegible]	[illegible]	1137	1230
JUL	[illegible]	[illegible]	[illegible]	.36	[illegible]	.36	.36	.36	.36	.37	.37	.46
DATE	[illegible]	[illegible]	[illegible]	[illegible]	09	[illegible]	[illegible]	[illegible]	[illegible]	09	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	1428	[illegible]	[illegible]	1428	1428	[illegible]	1602	1632	1709
AUG	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.36	[illegible]	1.41	1.41	1.42
DATE	[illegible]	28	[illegible]	[illegible]	[illegible]	28	[illegible]	[illegible]	24	[illegible]	24	24
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1816	1830	2100	2120	2140	2200	[illegible]	2300
SEP	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.04	.05	.06	.07	.07	.09	.09
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2145	2205	2120	2140	2200	2230	2300
OCT	.20	.32	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.52	.52	.52	.53	.60
DATE	[illegible]	[illegible]	[illegible]	[illegible]	24	[illegible]	[illegible]	[illegible]	24	24	24	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1047	1107	1110	1110	[illegible]	1055
NOV	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.29	.40	.48	[illegible]	[illegible]	.73	[illegible]
DATE	[illegible]	[illegible]	[illegible]	09	[illegible]	[illegible]	09	[illegible]	09	09	[illegible]	09
TIME	1733	[illegible]	[illegible]	[illegible]	[illegible]	1750	[illegible]	1318	[illegible]	1410	1410	[illegible]
DEC	[illegible]	[illegible]	[illegible]	.12	.13	[illegible]	.26	.28	.31	.36	.43	[illegible]
DATE	[illegible]	14	14	[illegible]	14	[illegible]	[illegible]	[illegible]	[illegible]	13	13	[illegible]
TIME	[illegible]	0121	[illegible]	[illegible]	0141	1005	[illegible]	2237	2257	2317	2347	0017
YEAR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.08	1.19	1.36	[illegible]	1.41	[illegible]	1.42
MONTH	[illegible]	[illegible]	08	[illegible]	[illegible]	[illegible]	08	[illegible]	[illegible]	08	[illegible]	08

MERIDIAN, [illegible]

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	.42	.53	[illegible]	[illegible]	.65	[illegible]	[illegible]	1.00	1.15	1.32
DATE	[illegible]	[illegible]	10	[illegible]	10	[illegible]	[illegible]	[illegible]	10	10	25	[illegible]
TIME	1325	1325	1330	[illegible]	1345	1400	1415	1435	1500	[illegible]	[illegible]	0100
FEB	[illegible]	.51	[illegible]	.67	[illegible]	[illegible]	1.03	1.10	[illegible]	1.27	[illegible]	1.54
DATE	[illegible]	[illegible]	[illegible]	16	16	16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	0215	0225	[illegible]	[illegible]	0310	0335	[illegible]	0425	[illegible]
MAR	[illegible]	[illegible]	.70	[illegible]	[illegible]	1.22	[illegible]	[illegible]	[illegible]	1.84	1.95	2.00
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13	13	13	[illegible]	[illegible]	[illegible]	13
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1413	1430	[illegible]	1500	1500	1500
APR	[illegible]	[illegible]	[illegible]	[illegible]	1.15	[illegible]	1.50	[illegible]	1.55	1.55	1.58	1.60
DATE	[illegible]	[illegible]	[illegible]	[illegible]	02	[illegible]	02	02	[illegible]	02	02	[illegible]
TIME	[illegible]	[illegible]	1630	[illegible]	1630	1640	1650	1710	1730	1640	[illegible]	1730
MAY	[illegible]	.65	[illegible]	[illegible]	[illegible]	[illegible]	.85	[illegible]	.85	.85	[illegible]	.85
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	29	[illegible]	[illegible]	29	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	1250	1250	1250	1250	1250	1250	[illegible]	1250	1250
JUN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.03	1.10	[illegible]	1.34	1.40	1.40
DATE	[illegible]	[illegible]	[illegible]	10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1844	[illegible]	[illegible]	1827	1827
JUL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.02	1.12	[illegible]	1.25	1.32	1.42	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	07	[illegible]	[illegible]	07	07	[illegible]
TIME	[illegible]	[illegible]	[illegible]	2115	2115	2130	2145	2200	2230	2245	[illegible]	[illegible]
AUG	.75	[illegible]	.41	[illegible]	.58	[illegible]	[illegible]	[illegible]	.63	[illegible]	.72	.76
DATE	[illegible]	[illegible]	[illegible]	[illegible]	17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17	[illegible]
TIME	[illegible]	[illegible]	[illegible]	1538	1314	1329	1329	1349	1349	[illegible]	1514	1544
SEP	.26	[illegible]	[illegible]	[illegible]	.53	.55	[illegible]	.60	[illegible]	[illegible]	.60	.60
DATE	[illegible]	[illegible]	[illegible]	[illegible]	10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	1320	[illegible]	[illegible]	[illegible]	1355	1405	1405	1405	[illegible]	[illegible]	1505
OCT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.50	[illegible]	[illegible]	[illegible]	.75	.81	[illegible]
DATE	[illegible]	16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	0140	[illegible]	[illegible]	[illegible]	0140	0240	0300	[illegible]	0300
NOV	.14	.24	.32	[illegible]	[illegible]	[illegible]	.55	.70	[illegible]	.80	[illegible]	.87
DATE	[illegible]	[illegible]	24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12	12	[illegible]	[illegible]
TIME	1630	[illegible]	[illegible]	[illegible]	1039	1046	[illegible]	[illegible]	[illegible]	0400	[illegible]	0417
DEC	[illegible]	[illegible]	.22	.24	.26	.37	.50	[illegible]	[illegible]	[illegible]	.95	1.04
DATE	[illegible]	25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	25	25	[illegible]	25	25
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1005	0940	[illegible]	[illegible]	1105	1105	[illegible]	1105
YEAR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.45	1.50	[illegible]	1.77	[illegible]	1.95	2.00
MONTH	[illegible]	05	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

INTERNATIONAL FALLS, MINNESOTA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.03	[illegible]	[illegible]	[illegible]	.13	[illegible]	.22	.30	.36	[illegible]	[illegible]	.51
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10	10	10	10	[illegible]	[illegible]
TIME	2155	[illegible]	2155	2155	2155	2155	[illegible]	[illegible]	2200	2200	2200	2200
FEB	.02	.03	[illegible]	[illegible]	.05	.06	.06	[illegible]	[illegible]	.10	.11	.12
DATE	25	[illegible]	[illegible]	[illegible]	25	25	25	25	[illegible]	25	25	25
TIME	0130	[illegible]	[illegible]	[illegible]	[illegible]	0200	0200	0216	0245	0250	0250	0300
MAR	.02	[illegible]	[illegible]	[illegible]	.06	.07	.08	.10	[illegible]	[illegible]	.18	[illegible]
DATE	[illegible]	[illegible]	24	[illegible]	[illegible]	[illegible]	[illegible]	24	[illegible]	24	24	24
TIME	0445	0445	[illegible]	0445	[illegible]	0445	[illegible]	0500	0515	[illegible]	0545	0545
APR	[illegible]	.05	[illegible]	[illegible]	.10	.15	.19	[illegible]	[illegible]	.28	.35	.42
DATE	17	17	17	17	[illegible]	17	[illegible]	[illegible]	[illegible]	17	[illegible]	17
TIME	[illegible]	2045	2130	2135	[illegible]	2145	2145	[illegible]	2200	2200	2230	2245
MAY	[illegible]	.13	[illegible]	.17	[illegible]	[illegible]	[illegible]	.22	.25	.25	.26	.28
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	23	23	[illegible]	25	25	25	25
TIME	0100	0100	[illegible]	0100	0100	[illegible]	[illegible]	2005	2005	2005	2005	2005
JUN	[illegible]	.79	[illegible]	1.12	[illegible]	1.75	[illegible]	2.48	[illegible]	2.82	2.95	2.97
DATE	[illegible]	[illegible]	24	[illegible]	[illegible]	24	[illegible]	24	24	24	24	24
TIME	1307	1310	1310	1313	1315	1325	1329	1340	1400	1345	1415	1445
JUL	[illegible]	.64	.65	[illegible]	[illegible]	.68	[illegible]	.68	[illegible]	.68	[illegible]	.68
DATE	[illegible]	[illegible]	05	[illegible]	[illegible]	05	[illegible]	05	[illegible]	05	05	[illegible]
TIME	[illegible]	[illegible]	[illegible]	1628	1628	1628	[illegible]	1628	[illegible]	1628	[illegible]	[illegible]
AUG	.15	.20	[illegible]	.28	.33	.37	.49	.55	.68	.76	.85	.88
DATE	25	31	[illegible]	[illegible]	31	31	31	31	[illegible]	[illegible]	31	31
TIME	1422	1832	1832	[illegible]	[illegible]	1838	1842	[illegible]	1920	1942	[illegible]	2042
SEP	.13	[illegible]	.16	.16	.16	[illegible]	.18	[illegible]	.19	.19	.25	.25
DATE	07	[illegible]	[illegible]	[illegible]	07	[illegible]	07	[illegible]	07	[illegible]	22	[illegible]
TIME	0120	[illegible]	[illegible]	0135	0145	0200	0215	0235	0255	0315	2145	2215
OCT	[illegible]	.24	.27	.33	.43	[illegible]	.48	.48	.48	.56	.58	[illegible]
DATE	[illegible]	15	[illegible]	15	[illegible]	[illegible]	[illegible]	15	15	[illegible]	[illegible]	15
TIME	0056	[illegible]	0056	0056	[illegible]	0110	0126	0146	[illegible]	0235	0305	[illegible]
NOV	.01	[illegible]	.02	[illegible]	.03	.04	.05	[illegible]	.08	.10	.12	[illegible]
DATE	[illegible]	[illegible]	19	19	[illegible]	[illegible]	19	19	[illegible]	19	[illegible]	19
TIME	[illegible]	2040	[illegible]	[illegible]	[illegible]	2110	2110	2110	2125	2130	2152	2227
DEC	[illegible]	.02	.03	.03	[illegible]	.05	[illegible]	.07	.10	.12	.15	.16
DATE	13	13	[illegible]	13	[illegible]	13	13	13	[illegible]	13	[illegible]	13
TIME	[illegible]	[illegible]	[illegible]	[illegible]	0300	[illegible]	0300	0245	0325	0350	0405	0425
YEAR	.60	.78	[illegible]	1.12	1.51	[illegible]	[illegible]	2.48	2.70	2.82	2.95	2.97
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	06	[illegible]	[illegible]	[illegible]	06	06	06

SAINT CLOUD, MINNESOTA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	.05	[illegible]	[illegible]	.09	.11	.15	.17	.20	[illegible]	.25	.27
DATE	[illegible]	10	[illegible]	10	[illegible]	10	[illegible]	10	10	[illegible]	10	10
TIME	1525	1555	[illegible]	[illegible]	1615	[illegible]	1620	1638	1700	1737	1748	1817
FEB	[illegible]	[illegible]	[illegible]	[illegible]	.02	.03	[illegible]	[illegible]	.05	.05	[illegible]	.06
DATE	17	17	17	[illegible]	[illegible]	[illegible]	[illegible]	17	17	17	17	17
TIME	[illegible]	[illegible]	1941	[illegible]	[illegible]	2011	[illegible]	2051	[illegible]	[illegible]	2201	2231
MAR	[illegible]	[illegible]	[illegible]	.12	[illegible]	[illegible]	.18	.19	[illegible]	.21	.23	.24
DATE	[illegible]	23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	23	[illegible]	23	23	23
TIME	0400	0400	[illegible]	0400	0400	0400	0400	0400	0320	0300	0230	0200
APR	.16	.29	.32	.35	[illegible]	[illegible]	.54	[illegible]	.71	.71	[illegible]	[illegible]
DATE	27	26	[illegible]	26	26	26	[illegible]	[illegible]	[illegible]	26	26	27
TIME	[illegible]	[illegible]	[illegible]	2014	2005	[illegible]	2053	2055	2115	2133	2202	2246
MAY	[illegible]	.34	[illegible]	[illegible]	.54	.63	[illegible]	.71	.73	.73	.73	.73
DATE	[illegible]	[illegible]	[illegible]	[illegible]	20	[illegible]	[illegible]	[illegible]	20	20	[illegible]	[illegible]
TIME	1840	1845	1850	[illegible]	1905	[illegible]	1925	1945	2005	[illegible]	2055	[illegible]
JUN	.19	[illegible]	[illegible]	.32	.34	.36	.45	.50	[illegible]	.69	.87	1.09
DATE	[illegible]	30	30	30	30	30	[illegible]	[illegible]	30	30	30	30
TIME	2055	2101	[illegible]	[illegible]	[illegible]	2110	2150	2210	[illegible]	2150	2110	2205
JUL	.16	.17	[illegible]	[illegible]	[illegible]	.19	.19	.19	.19	[illegible]	[illegible]	.19
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	09	09	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	1509	[illegible]	1517	1527	[illegible]	1557	1617	1637	1657	1727	1757
AUG	.38	.69	[illegible]	1.11	[illegible]	[illegible]	1.54	1.78	[illegible]	[illegible]	2.12	2.16
DATE	20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	20	[illegible]	[illegible]	[illegible]	20	20
TIME	0358	0327	[illegible]	[illegible]	0335	0347	[illegible]	0335	0345	0401	[illegible]	[illegible]
SEP	[illegible]	[illegible]	.31	[illegible]	.38	[illegible]	[illegible]	.38	[illegible]	.42	.47	.47
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11
TIME	2231	[illegible]	[illegible]	2231	2231	2231	[illegible]	2327	[illegible]	[illegible]	0035	0035
OCT	.13	.15	.15	.15	.22	[illegible]	.26	.31	[illegible]	.36	.43	.45
DATE	23	23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	23	[illegible]	23	23	23
TIME	0121	0126	0131	0136	2220	2235	[illegible]	2310	[illegible]	[illegible]	[illegible]	2335
NOV	[illegible]	[illegible]	.07	[illegible]	[illegible]	.11	.15	.19	.21	.23	.28	[illegible]
DATE	[illegible]	[illegible]	11	11	18	[illegible]	[illegible]	20	20	20	[illegible]	20
TIME	2217	1746	[illegible]	1755	2255	0346	0345	[illegible]	[illegible]	0445	0515	[illegible]
DEC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.05	[illegible]	.06	.09	.09
DATE	[illegible]	[illegible]	[illegible]	19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14	14
TIME	1425	[illegible]	1435	1440	1450	1505	1520	0525	0545	0505	0535	[illegible]
YEAR	.38	[illegible]	.74	[illegible]	1.40	[illegible]	1.54	1.78	1.85	1.98	2.12	2.16
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	08	[illegible]	[illegible]	08	[illegible]	08

COLUMBIA, MISSOURI

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	.17	.13	[illegible]	[illegible]	[illegible]	[illegible]	.29	[illegible]	[illegible]	.41	.44
DATE	[illegible]	[illegible]	29	[illegible]	10	[illegible]	10	10	10	[illegible]	[illegible]	[illegible]
TIME	[illegible]	0230	0230	[illegible]	0400	[illegible]	0415	0415	0415	[illegible]	0402	0430
FEB	.07	[illegible]	.12	.15	.23	.27	.29	.31	.33	[illegible]	.37	.37
DATE	[illegible]	16	[illegible]	16	[illegible]	16	16	[illegible]	16	[illegible]	16	16
TIME	0715	[illegible]	[illegible]	0720	0730	0745	[illegible]	0745	[illegible]	0830	0850	[illegible]
MAR	[illegible]	.17	[illegible]	.20	[illegible]	.37	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.70
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	26	27
TIME	[illegible]	2140	2145	2150	2200	2215	2230	[illegible]	2300	2320	2350	0015
APR	[illegible]	[illegible]	[illegible]	.36	[illegible]	[illegible]	[illegible]	.73	.82	[illegible]	[illegible]	[illegible]
DATE	[illegible]	18	24	24	[illegible]	24	24	24	[illegible]	24	24	24
TIME	[illegible]	1447	[illegible]	[illegible]	[illegible]	0005	0020	[illegible]	[illegible]	0120	[illegible]	0220
MAY	[illegible]	[illegible]	.39	.41	.48	.53	.58	[illegible]	[illegible]	[illegible]	.80	.82
DATE	06	[illegible]	[illegible]	20	[illegible]	20	[illegible]	20	[illegible]	20	20	20
TIME	1815	[illegible]	1816	2058	[illegible]	2106	2127	2145	2200	2153	2200	2215
JUN	[illegible]	.49	.72	.86	[illegible]	1.48	1.49	1.49	1.49	[illegible]	1.53	1.79
DATE	16	[illegible]	[illegible]	16	16	16	16	[illegible]	[illegible]	[illegible]	16	16
TIME	1720	[illegible]	[illegible]	[illegible]	[illegible]	1740	[illegible]	1740	[illegible]	1745	1745	1745
JUL	[illegible]	.21	[illegible]	[illegible]	.29	.31	.31	.31	.31	.31	.31	.31
DATE	[illegible]	[illegible]	[illegible]	[illegible]	24	24	24	24	[illegible]	24	24	24
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0015	0030	0050	[illegible]	0130	[illegible]	[illegible]
AUG	[illegible]	[illegible]	.58	[illegible]	.85	[illegible]	[illegible]	1.09	1.48	1.51	[illegible]	1.66
DATE	[illegible]	19	19	19	[illegible]	[illegible]	13	[illegible]	[illegible]	[illegible]	25	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1855	[illegible]	0900	0920	[illegible]	2035	1035	[illegible]
SEP	[illegible]	[illegible]	[illegible]	.70	.70	.70	[illegible]	[illegible]	[illegible]	.72	.76	.77
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10	[illegible]	18	[illegible]	[illegible]
TIME	2133	1232	1232	1237	[illegible]	1302	1317	1337	1357	[illegible]	2355	0025
OCT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.39	.41	[illegible]	[illegible]	.55	[illegible]	.67
DATE	[illegible]	[illegible]	14	14	14	14	14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	1748	[illegible]	[illegible]	1748	1755	[illegible]	1825	1845	1905	[illegible]	1955	2025
NOV	[illegible]	.28	[illegible]	[illegible]	.47	.51	.69	[illegible]	[illegible]	.86	.92	.96
DATE	[illegible]	29	29	29	[illegible]	[illegible]	29	29	[illegible]	29	[illegible]	[illegible]
TIME	2105	[illegible]	[illegible]	[illegible]	[illegible]	2145	2138	2158	[illegible]	2238	[illegible]	2338
DEC	.13	[illegible]	[illegible]	.28	.28	.30	.32	[illegible]	.40	.43	[illegible]	[illegible]
DATE	[illegible]	14	[illegible]	14	[illegible]	[illegible]	14	[illegible]	14	14	[illegible]	[illegible]
TIME	1845	1845	[illegible]	[illegible]	1905	1920	1935	1642	1702	[illegible]	[illegible]	1922
YEAR	.30	[illegible]	.72	.86	1.23	[illegible]	[illegible]	[illegible]	[illegible]	1.51	[illegible]	1.79
MONTH	08	[illegible]	04	[illegible]	[illegible]	[illegible]	[illegible]	06	06	[illegible]	[illegible]	[illegible]

MINN-ST. PAUL, MINNESOTA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.03	.05	.06	.07	.10	.14	.20	.26	.30	.34	.41	.46
DATE	[illegible]	10	10	10	10	10	[illegible]	10	10	[illegible]	[illegible]	[illegible]
TIME	1730	1735	[illegible]	1806	1755	1807	1737	1808	1807	1807	[illegible]	1807
FEB	.01	[illegible]	.03	.04	.06	.07	.09	.11	.13	.15	.18	.20
DATE	10	10	10	10	10	10	10	10	10	10	10	10
TIME	1621	1640	1650	1650	1659	1715	1729	1750	1807	1820	1857	1920
MAR	.02	.04	.05	.06	.07	.09	.12	.15	.17	.21	.22	.24
DATE	27	27	27	27	27	27	27	27	27	27	27	27
TIME	0234	0236	0240	0245	0254	0310	0325	0345	0356	0400	0445	0500
APR	.25	.36	.42	.50	.75	.87	.94	1.02	1.12	1.18	1.26	1.32
DATE	17	17	17	17	17	17	17	17	17	17	17	17
TIME	1229	1231	1236	1241	1251	1306	1321	1341	1401	1421	1451	1521
MAY	[illegible]	.94	1.10	1.48	1.50	1.53	1.55	1.56	1.56	1.56	1.56	1.56
DATE	23	23	23	23	23	23	23	23	23	23	23	23
TIME	1130	1130	1130	1130	1138	1156	1206	1213	1246	1312	1337	1407
JUN	.45	.54	.67	.78	.89	.89	.89	.89	.89	.89	.89	.89
DATE	21	21	04	04	04	14	14	04	04	04	04	04
TIME	1415	1419	1535	1535	1545	1600	1615	1632	1652	1715	1745	1815
JUL	.14	.21	.24	.27	.29	.30	.30	.30	.30	.30	.30	.30
DATE	23	23	23	23	23	23	23	23	23	23	23	23
TIME	1653	1658	1703	1708	1718	1733	1739	1759	1819	1839	1909	1939
AUG	[illegible]	.33	.44	.47	.66	[illegible]	1.01	1.02	1.03	1.04	1.14	1.29
DATE	01	01	01	01	22	22	22	22	22	01	01	01
TIME	1659	1704	1708	1710	2224	2244	2235	2255	2316	2052	2127	2157
SEP	.08	.13	.16	.18	.22	.28	.29	.31	.33	.33	.33	.33
DATE	10	10	11	11	11	11	11	11	11	11	11	11
TIME	2354	2359	0003	0005	0005	[illegible]	0015	0010	0015	0020	0020	0020
OCT	.05	.06	.06	.06	.07	.09	.09	.11	.12	.13	.14	.14
DATE	24	24	24	24	24	24	24	24	24	24	24	24
TIME	0028	0033	0038	0048	0052	0033	0045	0105	0125	0145	0215	0245
NOV	.02	.04	.06	.08	.11	.16	.21	.26	.31	.36	.44	.53
DATE	09	09	09	09	09	09	09	09	09	09	09	09
TIME	1737	1727	1755	1750	1805	1805	1805	1805	1805	1805	1938	1938
DEC	.05	.08	.10	.11	.16	.23	.29	.34	.43	.45	.46	.47
DATE	13	13	13	13	13	13	13	13	13	13	13	14
TIME	2252	2252	2258	2219	2235	2253	2253	2253	2253	2312	2345	0013
YEAR	.60	.94	1.10	1.48	1.50	1.53	1.55	1.56	1.56	1.56	1.56	1.56
MONTH	05	05	05	05	05	05	05	05	05	05	05	05

JACKSON, MISSISSIPPI

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.35	[illegible]	.48	[illegible]	.56	.64	.76	.78	.82	.85	.88	1.15
DATE	[illegible]	[illegible]	10	24	24	24	24	24	24	24	24	24
TIME	[illegible]	1010	1010	1959	2013	2002	2017	2046	2046	2046	2046	[illegible]
FEB	.31	.55	[illegible]	.61	.67	.78	.85	1.28	1.42	1.57	1.73	1.78
DATE	15	15	15	15	15	15	15	16	16	16	16	16
TIME	2315	[illegible]	2321	2326	2317	2347	2347	0025	0045	0102	0120	0145
MAR	.26	.44	.50	.55	.59	.60	.63	.66	.68	.71	.78	.81
DATE	24	13	13	13	24	24	13	13	13	13	13	13
TIME	0210	1228	1233	1238	0228	0243	1250	1305	1310	1418	1420	1440
APR	.23	.35	.39	[illegible]	.45	.51	.61	.69	.73	.87	.93	.98
DATE	30	30	30	30	30	09	09	09	09	09	09	09
TIME	0111	0116	0121	0126	[illegible]	1122	1140	1131	1155	1126	1156	1226
MAY	.31	.51	.51	.52	.58	[illegible]	[illegible]	.89	.90	.92	.93	1.03
DATE	29	29	29	29	15	15	15	15	15	15	06	06
TIME	1148	1153	1158	1203	2232	2247	2302	2322	2342	0002	2103	2115
JUN	.57	.80	.91	1.15	1.42	1.55	1.58	1.64	1.65	1.66	1.68	1.68
DATE	21	19	19	19	19	19	19	19	20	20	20	20
TIME	1632	2247	2248	2249	2300	2315	2330	2350	0010	0030	0050	0050
JUL	.44	.79	.91	1.25	1.63	1.98	2.51	3.00	3.14	3.27	3.33	3.36
DATE	25	25	25	25	25	25	25	25	25	25	25	25
TIME	1230	1235	1240	1245	1255	1310	1325	1345	1342	1402	1432	1502
AUG	.31	.50	.67	.77	.93	.98	1.02	1.03	1.03	1.05	1.06	1.07
DATE	16	16	16	16	16	16	16	16	16	16	16	16
TIME	1315	1332	1332	1332	1335	1350	1405	1425	1445	1414	1434	1504
SEP	.25	.40	.45	[illegible]	.71	[illegible]	.84	.99	1.05	1.09	1.13	1.13
DATE	06	06	06	06	06	06	06	06	06	06	06	06
TIME	0652	0652	0657	0700	0705	0720	0735	0755	0815	0835	0905	0915
OCT	.25	.43	.57	.71	.88	1.28	1.59	2.09	2.29	2.52	2.91	3.28
DATE	16	16	16	16	16	16	16	16	16	16	16	16
TIME	1105	1105	1105	1105	1105	1105	1105	1120	1130	1130	1130	1145
NOV	.33	.45	.47	.48	.49	.50	.54	.64	.77	.80	.82	.93
DATE	26	26	26	26	26	26	04	04	04	04	04	06
TIME	1429	1431	1439	1444	1449	1434	1931	1931	1944	2004	2024	1533
DEC	.16	.26	.29	.32	.37	.42	.47	.51	.54	.57	.59	.67
DATE	25	25	25	25	25	25	25	25	25	25	25	25
TIME	[illegible]	0732	0734	0736	0745	0745	0815	0815	0825	0915	0945	1015
YEAR	.57	[illegible]	.91	1.25	1.63	1.98	2.51	3.00	3.14	3.27	3.33	3.36
MONTH	06	06	07+	07	07	07	07	07	07	07	07	07

KANSAS CITY, MISSOURI INTL AP

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.12	[illegible]	.20	[illegible]	.22	.34	.38	.43	.44	.44	.44	.46
DATE	[illegible]	10	10	10	10	[illegible]	[illegible]	10	10	10	10	10
TIME	[illegible]	0100	0100	0100	0530	0515	0500	0500	[illegible]	0500	0430	0400
FEB	.08	.12	.13	[illegible]	.16	.23	.26	.29	.32	.34	.35	.40
DATE	14	16	16	16	16	16	16	16	16	16	16	16
TIME	1430	1430	1430	1430	1430	1400	1400	1400	1400	1400	1400	1400
MAR	.06	.09	.10	.12	.13	[illegible]	[illegible]	.24	.29	.31	.33	.35
DATE	27	27	27	27	27	26	26	26	26	26	26	26
TIME	0800	0806	0810	0815	0826	1945	2000	2020	2050	2100	2130	2200
APR	.32	.54	.70	.84	1.10	1.55	1.97	2.48	2.90	3.30	3.39	3.50
DATE	23	23	23	23	23	23	23	23	23	23	23	23
TIME	[illegible]	2230	2230	2230	[illegible]	[illegible]	0000	0000	0000	0000	0000	0000
MAY	.26	.30	.32	.35	.36	.40	.41	.54	.55	.55	.55	.55
DATE	28	28	28	28	28	28	28	28	28	28	28	28
TIME	0230	0230	0230	0235	0245	0300	0315	0335	0355	0415	0445	0515
JUN	.12	.22	.34	.44	.56	.62	.69	.76	.78	.83	.91	.91
DATE	10	10	10	10	10	10	10	10	10	10	10	10
TIME	2135	2140	2140	2140	2145	2145	2200	2220	2220	2200	[illegible]	2300
JUL	.02	.04	.06	.07	.09	.11	.13	.14	.15	.15	.16	.19
DATE	20	20	20	20	20	20	20	20	20	20	20	20
TIME	[illegible]	0325	0330	0325	0345	0400	0400	0420	0440	0445	0445	0445
AUG	.36	.56	.74	1.05	1.45	1.75	1.97	2.21	2.43	2.65	2.85	3.21
DATE	25	25	25	25	25	25	25	25	25	25	25	25
TIME	1435	1440	1445	1450	1500	1515	1530	1550	1610	1630	1700	1615
SEP	.26	.36	.50	.66	.96	1.26	1.42	1.62	1.82	1.92	2.28	2.51
DATE	10	10	10	10	10	10	10	10	10	10	10	11
TIME	2240	2245	2245	2250	2300	2315	2330	2350	0000	0000	0000	0030
OCT	.12	.18	.20	.20	.22	.24	.25	.25	.26	.26	.26	.26
DATE	14	14	14	14	14	14	14	14	14	14	14	14
TIME	1410	[illegible]	1415	1420	[illegible]	1445	1500	1520	1540	1600	1600	1600
NOV	.30	.47	.48	.51	.52	.54	.58	.58	.59	.60	.60	.61
DATE	29	29	29	29	29	29	29	29	29	29	29	29
TIME	1700	1705	1710	1715	1725	1735	1755	1815	1835	1855	1925	1955
DEC	.44	.50	.60	.64	.80	1.08	1.18	1.47	1.48	1.50	1.50	1.50
DATE	14	14	14	14	14	14	14	14	14	14	14	14
TIME	0200	0200	0200	0200	0200	0215	0230	0250	0310	0330	0400	0430
YEAR	.44	.56	.74	1.05	1.45	1.75	1.97	2.48	2.90	3.30	3.39	3.50
MONTH	12	08	08	08	08	08	08+	04	04	04	04	04

MAXIMUM SHORT DURATION PRECIPITATION

GREAT F[illegible], [illegible]TANA

HELENA, MONTANA

MAXIMUM SHORT DURATION PRECIPITATION

YEAR 1975

Maximum precipitation in inches (5 to 180 minutes)

GRAND ISLAND, NEBRASKA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	.03	.04	.05	.06	.07	.08	.10	[illegible]	.16	.19
DATE	[illegible]	10	[illegible]	[illegible]	10	10	10	[illegible]	10	10	10	[illegible]
TIME	[illegible]	[illegible]	[illegible]	1120	1130	1145	1200	1220	1240	[illegible]	1330	1400
FEB	[illegible]	[illegible]	[illegible]	.03	.03	.03	.03	[illegible]	.04	[illegible]	[illegible]	.05
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	04	[illegible]	[illegible]	04
TIME	[illegible]	[illegible]	[illegible]	[illegible]	0555	[illegible]	0625	[illegible]	0705	0725	0755	0825
MAR	[illegible]	[illegible]	.22	[illegible]	.22	[illegible]	.34	.37	.38	[illegible]	.39	[illegible]
DATE	[illegible]	[illegible]	24	[illegible]	27	27	27	[illegible]	27	27	27	27
TIME	[illegible]	[illegible]	[illegible]	0000	[illegible]	[illegible]	0040	[illegible]	0120	0140	0200	0200
APR	.15	.23	[illegible]	.35	[illegible]	.47	[illegible]	.47	[illegible]	.47	[illegible]	.47
DATE	[illegible]	[illegible]	22	22	[illegible]	[illegible]	[illegible]	22	[illegible]	22	22	[illegible]
TIME	[illegible]	2025	[illegible]	[illegible]	2045	2100	2115	[illegible]	2155	2215	2245	2315
MAY	[illegible]	.23	[illegible]	[illegible]	.35	[illegible]	.39	[illegible]	[illegible]	.39	.39	[illegible]
DATE	[illegible]	22	[illegible]	22	22	[illegible]	[illegible]	[illegible]	22	22	[illegible]	28
TIME	0102	[illegible]	[illegible]	0112	[illegible]	0135	0135	[illegible]	[illegible]	0135	0135	0215
JUN	[illegible]	.25	[illegible]	.47	[illegible]	.79	.93	1.08	1.26	1.39	1.49	1.74
DATE	[illegible]	21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18	18
TIME	[illegible]	[illegible]	[illegible]	0100	[illegible]	0117	[illegible]	0140	[illegible]	[illegible]	0249	[illegible]
JUL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.54	.54	[illegible]	[illegible]	[illegible]	[illegible]	.73
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19	19	19	[illegible]	[illegible]	19
TIME	[illegible]	[illegible]	2053	[illegible]	2104	[illegible]	2132	2152	2240	[illegible]	2210	2210
AUG	[illegible]	.24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.55	.59	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	05	[illegible]	05	[illegible]	[illegible]	[illegible]	05	05	05
TIME	[illegible]	0344	[illegible]	0354	0404	0419	[illegible]	0454	0514	[illegible]	0604	[illegible]
SEP	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.21	.21	[illegible]	[illegible]	[illegible]	.26
DATE	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	28	[illegible]	04	04	[illegible]
TIME	[illegible]	1409	[illegible]	[illegible]	1429	1444	1459	[illegible]	[illegible]	[illegible]	1015	[illegible]
OCT	[illegible]	[illegible]	[illegible]	[illegible]	.02	[illegible]	.03	.04	.05	.05	.05	.06
DATE	[illegible]	[illegible]	23	23	[illegible]	[illegible]	[illegible]	23	[illegible]	23	[illegible]	[illegible]
TIME	1445	[illegible]	[illegible]	1445	[illegible]	1445	[illegible]	1520	1530	1530	[illegible]	1520
NOV	[illegible]	[illegible]	[illegible]	[illegible]	.16	.22	[illegible]	[illegible]	.40	[illegible]	.52	.57
DATE	[illegible]	19	[illegible]	[illegible]	[illegible]	19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1216	1231	[illegible]	[illegible]	[illegible]	1346	1516	1546
DEC	[illegible]	.04	[illegible]	[illegible]	[illegible]	.04	[illegible]	[illegible]	.05	.05	.05	.05
DATE	[illegible]	[illegible]	[illegible]	[illegible]	13	[illegible]	13	13	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	1035	1045	1100	1115	1135	[illegible]	0020	0050	0120
YEAR	[illegible]	[illegible]	.45	[illegible]	[illegible]	.79	[illegible]	[illegible]	1.26	[illegible]	[illegible]	[illegible]
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	06	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

LINCOLN, NEBR. AP

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.02	.03	[illegible]	[illegible]	.08	.12	.16	.21	.24	.27	.32	.35
DATE	18	18	18	18	18	18	18	18	18	18	18	18
TIME	2102	2107	[illegible]	2117	[illegible]	[illegible]	2157	2157	[illegible]	[illegible]	2227	2257
FEB	.03	[illegible]	[illegible]	.07	[illegible]	.10	.12	.14	.14	.21	.24	.28
DATE	04	04	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	04	04	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0548	0548	0548	[illegible]	0548	0548
MAR	.06	.07	[illegible]	.10	[illegible]	.17	.19	.22	.25	[illegible]	.27	.32
DATE	27	26	24	[illegible]	[illegible]	27	[illegible]	[illegible]	27	27	27	27
TIME	1551	[illegible]	[illegible]	0500	[illegible]	0500	0530	0535	0555	[illegible]	0650	[illegible]
APR	[illegible]	[illegible]	[illegible]	.37	.49	.52	[illegible]	.58	.60	.62	.65	.66
DATE	[illegible]	[illegible]	22	22	22	22	[illegible]	22	[illegible]	[illegible]	22	23
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2300	[illegible]	2340	2340	2340	0015
MAY	[illegible]	.14	.18	.21	[illegible]	.35	.45	.55	[illegible]	.80	.91	.99
DATE	[illegible]	27	27	[illegible]	[illegible]	28	[illegible]	28	[illegible]	28	28	[illegible]
TIME	2358	[illegible]	[illegible]	[illegible]	2358	0020	0035	[illegible]	0137	[illegible]	[illegible]	0210
JUN	[illegible]	[illegible]	[illegible]	.30	[illegible]	.35	[illegible]	.50	.55	.65	.73	.76
DATE	[illegible]	[illegible]	[illegible]	16	[illegible]	18	08	[illegible]	[illegible]	08	08	08
TIME	[illegible]	[illegible]	[illegible]	0401	0411	0426	[illegible]	1718	1716	1735	1805	1835
JUL	.16	[illegible]	[illegible]	.20	.26	[illegible]	.33	.48	[illegible]	.51	[illegible]	[illegible]
DATE	[illegible]	[illegible]	19	19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19	[illegible]	20
TIME	[illegible]	2244	2244	2244	2158	[illegible]	2244	[illegible]	2301	[illegible]	2351	0015
AUG	.22	.34	[illegible]	[illegible]	[illegible]	.54	[illegible]	[illegible]	.68	.71	.75	[illegible]
DATE	[illegible]	13	[illegible]	[illegible]	13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	0136	0200	0200	0220	[illegible]	[illegible]	0300	0300
SEP	[illegible]	[illegible]	[illegible]	[illegible]	.73	.75	.75	.75	.75	.75	[illegible]	[illegible]
DATE	04	[illegible]	04	[illegible]	04	[illegible]	04	[illegible]	[illegible]	04	[illegible]	04
TIME	0344	[illegible]	[illegible]	[illegible]	[illegible]	0417	0417	0417	0417	0417	[illegible]	[illegible]
OCT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.01	.01	.01	.01	.01	.01	.01
DATE	24	[illegible]	24	[illegible]	[illegible]	[illegible]	24	[illegible]	24	[illegible]	24	24
TIME	0242	0242	0242	[illegible]	[illegible]	0242	0242	[illegible]	0242	0242	0242	0242
NOV	[illegible]	.17	.19	.20	[illegible]	.22	.28	.35	[illegible]	.42	.46	[illegible]
DATE	[illegible]	[illegible]	09	09	[illegible]	09	[illegible]	[illegible]	19	19	[illegible]	[illegible]
TIME	1025	[illegible]	1027	[illegible]	1042	1057	1720	1745	[illegible]	1825	1855	[illegible]
DEC	.12	[illegible]	[illegible]	.33	[illegible]	[illegible]	.48	[illegible]	.48	[illegible]	.48	.48
DATE	[illegible]	13	[illegible]	13	13	[illegible]	13	14	14	14	[illegible]	[illegible]
TIME	[illegible]	[illegible]	2305	[illegible]	2315	[illegible]	[illegible]	0005	0005	0005	[illegible]	0005
YEAR	[illegible]	[illegible]	.56	.70	.73	[illegible]	[illegible]	.75	[illegible]	.80	[illegible]	.99
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	09	[illegible]	[illegible]	[illegible]	[illegible]	05	05

NORFOLK, NEBRASKA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.02	.03	[illegible]	[illegible]	.07	.09	.12	.14	.19	.23	.26	.31
DATE	18	18	18	18	18	18	18	18	18	18	18	18
TIME	1805	[illegible]	1805	1810	1810	1830	1845	1815	1810	1830	1830	1900
FEB	.01	.01	[illegible]	[illegible]	[illegible]	.03	.03	.04	.05	.05	.06	.07
DATE	[illegible]	16	[illegible]	16	16	16	16	16	16	[illegible]	[illegible]	[illegible]
TIME	2040	2040	[illegible]	[illegible]	[illegible]	2040	[illegible]	2100	2110	2130	2145	2200
MAR	.10	.17	.18	.21	[illegible]	.29	.32	.40	.42	.43	.44	.45
DATE	27	27	27	27	27	27	27	27	27	27	27	27
TIME	0242	[illegible]	[illegible]	0253	[illegible]	[illegible]	0253	0253	[illegible]	[illegible]	0253	[illegible]
APR	.06	.10	.13	[illegible]	.21	.26	.33	.42	.50	.57	.60	.64
DATE	27	[illegible]	08	08	21	21	21	07	[illegible]	[illegible]	07	07
TIME	[illegible]	[illegible]	2116	2116	[illegible]	0150	0200	0735	0745	[illegible]	[illegible]	0905
MAY	[illegible]	[illegible]	.33	.34	.36	.37	.37	.37	.37	.37	.43	.46
DATE	22	22	[illegible]	22	22	22	22	22	22	22	10	10
TIME	1600	1604	1609	1614	1624	1639	1654	1714	1734	[illegible]	1945	1945
JUN	.25	[illegible]	.45	.53	.58	.63	.80	.87	[illegible]	1.02	1.17	1.37
DATE	21	21	21	21	21	18	[illegible]	[illegible]	18	[illegible]	18	18
TIME	0533	[illegible]	0540	0543	0553	0247	[illegible]	0307	0303	0347	0418	[illegible]
JUL	.40	[illegible]	[illegible]	[illegible]	1.15	1.30	[illegible]	1.37	1.40	1.43	1.45	1.46
DATE	19	19	19	19	[illegible]	[illegible]	19	19	19	[illegible]	19	19
TIME	[illegible]	[illegible]	[illegible]	0132	0137	0150	0210	0230	0250	0310	[illegible]	0410
AUG	.20	[illegible]	.50	.62	.85	[illegible]	1.47	1.55	[illegible]	1.55	1.55	1.55
DATE	[illegible]	30	[illegible]	[illegible]	[illegible]	30	30	[illegible]	30	30	30	30
TIME	0151	[illegible]	[illegible]	0155	0210	[illegible]	0222	0223	0223	0223	[illegible]	0223
SEP	[illegible]	[illegible]	[illegible]	.12	.17	.22	.25	.30	[illegible]	.33	.33	.33
DATE	[illegible]	[illegible]	04	[illegible]	[illegible]	[illegible]	04	04	04	04	04	04
TIME	1617	1617	[illegible]	1622	1632	1647	1702	1712	1800	1800	1800	1800
OCT	.02	[illegible]	[illegible]	[illegible]	.06	.06	.06	[illegible]	[illegible]	.06	.06	.08
DATE	23	[illegible]	[illegible]	23	23	23	23	23	23	23	23	23
TIME	[illegible]	[illegible]	[illegible]	1658	1708	[illegible]	1708	1708	1708	1708	1708	1708
NOV	[illegible]	[illegible]	[illegible]	.11	.14	[illegible]	.22	.25	.29	.32	.39	.45
DATE	[illegible]	09	[illegible]	09	09	09	09	09	[illegible]	[illegible]	09	09
TIME	[illegible]	1110	1115	1115	[illegible]	[illegible]	1115	1450	1450	1450	1450	1450
DEC	.03	.04	[illegible]	.05	.06	.06	[illegible]	[illegible]	.06	[illegible]	.06	.06
DATE	[illegible]	13	13	14	14	14	14	14	14	[illegible]	14	[illegible]
TIME	2350	2355	[illegible]	0000	0005	0005	0005	0005	0005	0005	[illegible]	0005
YEAR	[illegible]	.63	[illegible]	.98	1.15	1.30	1.47	1.55	1.55	1.55	1.55	1.55
MONTH	07	[illegible]	[illegible]	07	07	07	08	[illegible]	08	[illegible]	08	08

NORTH PLATTE, NEBRASKA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.04	.04	[illegible]	[illegible]	[illegible]	.04
DATE	[illegible]	[illegible]	[illegible]	[illegible]	02	[illegible]	[illegible]	04	[illegible]	04	[illegible]	04
TIME	[illegible]	[illegible]	0315	[illegible]	[illegible]	[illegible]	0300	0300	0300	0300	0300	0300
FEB	[illegible]	[illegible]	[illegible]	.02	[illegible]	.02	[illegible]	.03	.03	.03	.03	.04
DATE	[illegible]	11	[illegible]	11	11	[illegible]	[illegible]	[illegible]	14	14	14	[illegible]
TIME	[illegible]	0137	[illegible]	[illegible]	0157	0212	2200	[illegible]	[illegible]	2135	[illegible]	[illegible]
MAR	[illegible]	[illegible]	[illegible]	.05	.06	.07	[illegible]	[illegible]	[illegible]	[illegible]	.18	[illegible]
DATE	[illegible]	27	[illegible]	[illegible]	[illegible]	27	27	[illegible]	27	27	27	[illegible]
TIME	[illegible]	1035	[illegible]	[illegible]	[illegible]	[illegible]	0803	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
APR	.21	[illegible]	.42	[illegible]	.58	.59	[illegible]	.60	.60	[illegible]	[illegible]	.60
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	1844	[illegible]	[illegible]	[illegible]	1844	1844	1844	[illegible]	1844	1844
MAY	[illegible]	[illegible]	.24	.24	[illegible]	.26	.31	.34	.35	[illegible]	.36	.36
DATE	[illegible]	[illegible]	[illegible]	18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0018	[illegible]	[illegible]	0018	[illegible]
JUN	[illegible]	[illegible]	[illegible]	.45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.90	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	07
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2158	1915	[illegible]	1915	[illegible]	1915	[illegible]
JUL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.72	1.02	[illegible]	1.28	1.39	[illegible]
DATE	[illegible]	09	[illegible]	31	[illegible]	[illegible]	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	0516	[illegible]	[illegible]	0044	[illegible]	[illegible]	0040	0050	[illegible]	0050	0050	[illegible]
AUG	[illegible]	.15	[illegible]	.17	[illegible]	[illegible]	.24	.24	[illegible]	[illegible]	.24	[illegible]
DATE	[illegible]	[illegible]	[illegible]	15	[illegible]	15	15	15	[illegible]	[illegible]	15	[illegible]
TIME	[illegible]	[illegible]	[illegible]	2320	[illegible]	[illegible]	2320	2320	[illegible]	[illegible]	2320	2320
SEP	[illegible]	[illegible]	[illegible]	.05	.06	[illegible]	[illegible]	[illegible]	.12	[illegible]	[illegible]	.15
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11
TIME	[illegible]	0730	0730	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0001
OCT	[illegible]	[illegible]	[illegible]	.01	[illegible]	.02	.03	.04	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	23
TIME	[illegible]	[illegible]	[illegible]	[illegible]	2200	[illegible]	2200	[illegible]	[illegible]	[illegible]	2200	2200
NOV	[illegible]	[illegible]	.02	[illegible]	[illegible]	[illegible]	[illegible]	.10	.12	[illegible]	.16	.18
DATE	[illegible]	19	[illegible]	[illegible]	19	[illegible]	19	[illegible]	[illegible]	19	19	19
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0800	[illegible]	[illegible]	0900	[illegible]	[illegible]	[illegible]
DEC	[illegible]	[illegible]	.01	[illegible]	.01	.01	.02	[illegible]	.02	.02	[illegible]	.03
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	28	[illegible]	[illegible]	[illegible]	[illegible]	28	28
TIME	[illegible]	[illegible]	2200	2200	[illegible]	2200	2200	[illegible]	[illegible]	2200	2200	[illegible]
YEAR	.22	[illegible]	[illegible]	.56	.58	.59	[illegible]	[illegible]	1.09	1.28	1.39	1.48
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	07	[illegible]	[illegible]	07

OMAHA, NEBRASKA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	[illegible]	[illegible]	.09	[illegible]	.12	.15	.18	.23	.26	[illegible]
DATE	[illegible]	[illegible]	[illegible]	10	10	10	10	10	10	10	[illegible]	10
TIME	1035	1040	[illegible]	1050	1100	1115	[illegible]	1205	[illegible]	1200	[illegible]	1300
FEB	[illegible]	[illegible]	[illegible]	[illegible]	.05	.05	[illegible]	[illegible]	.11	.12	[illegible]	.17
DATE	[illegible]	[illegible]	[illegible]	16	[illegible]	[illegible]	[illegible]	[illegible]	16	16	[illegible]	16
TIME	1905	1910	[illegible]	[illegible]	[illegible]	[illegible]	2100	[illegible]	2140	[illegible]	2130	2200
MAR	.04	[illegible]	[illegible]	.10	.14	.23	[illegible]	.29	.30	.39	[illegible]	[illegible]
DATE	[illegible]	27	[illegible]	[illegible]	27	27	[illegible]	27	27	27	27	27
TIME	[illegible]	[illegible]	0615	[illegible]	[illegible]	0630	0630	0700	[illegible]	0600	[illegible]	0700
APR	[illegible]	[illegible]	[illegible]	[illegible]	.50	[illegible]	[illegible]	[illegible]	[illegible]	.64	[illegible]	[illegible]
DATE	27	27	27	[illegible]	27	27	27	[illegible]	27	[illegible]	[illegible]	27
TIME	1217	[illegible]	[illegible]	1232	1242	1245	[illegible]	[illegible]	1325	1345	1415	1445
MAY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.05	[illegible]	1.20	1.36	1.38	1.40	1.41
DATE	[illegible]	06	[illegible]	[illegible]	[illegible]	06	[illegible]	[illegible]	[illegible]	06	[illegible]	06
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1615	1620	1635	[illegible]	1615	[illegible]	1635	1635
JUN	.32	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.69	1.04	1.13	[illegible]	1.23
DATE	[illegible]	02	[illegible]	[illegible]	[illegible]	[illegible]	18	18	[illegible]	18	[illegible]	18
TIME	1344	[illegible]	[illegible]	1359	1359	0505	0520	0445	0510	[illegible]	0600	0621
JUL	.06	.11	[illegible]	[illegible]	[illegible]	.15	[illegible]	.15	.15	.15	.15	.15
DATE	[illegible]	[illegible]	[illegible]	[illegible]	11	11	[illegible]	[illegible]	11	[illegible]	[illegible]	11
TIME	[illegible]	0123	[illegible]	[illegible]	0138	0138	0138	0138	[illegible]	0138	0138	0138
AUG	.08	.10	[illegible]	[illegible]	.20	.21	.23	.24	.25	[illegible]	.38	.43
DATE	12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	01	13	[illegible]	[illegible]	13	13
TIME	2347	[illegible]	1730	[illegible]	0245	[illegible]	1745	0100	0326	[illegible]	[illegible]	0245
SEP	.26	.33	.34	[illegible]	[illegible]	.37	.39	.40	[illegible]	[illegible]	.59	.69
DATE	[illegible]	[illegible]	04	[illegible]	[illegible]	[illegible]	04	[illegible]	[illegible]	[illegible]	[illegible]	04
TIME	1446	1449	[illegible]	1500	0629	[illegible]	0300	0640	0617	0642	[illegible]	1646
OCT	[illegible]	[illegible]	[illegible]	.01	[illegible]	[illegible]	[illegible]	[illegible]	.01	.01	.01	[illegible]
DATE	[illegible]	[illegible]	24	[illegible]	24	[illegible]	24	[illegible]	[illegible]	[illegible]	[illegible]	24
TIME	[illegible]	[illegible]	[illegible]	0408	0408	0408	[illegible]	0408	0408	[illegible]	[illegible]	0408
NOV	[illegible]	[illegible]	.11	.12	.17	.22	.33	.37	.42	.43	.46	.57
DATE	[illegible]	[illegible]	19	[illegible]	[illegible]	19	19	[illegible]	[illegible]	[illegible]	[illegible]	19
TIME	0945	0730	[illegible]	[illegible]	1930	1915	1930	1948	1945	[illegible]	2032	2000
DEC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.18	[illegible]	.24	.24	[illegible]	.25	.25
DATE	[illegible]	[illegible]	14	[illegible]	[illegible]	[illegible]	14	[illegible]	14	[illegible]	[illegible]	14
TIME	[illegible]	2358	[illegible]	0005	[illegible]	0029	0037	0037	[illegible]	[illegible]	0037	0037
YEAR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.20	1.36	1.38	1.40	1.41
MONTH	06	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	05	[illegible]	05

SCOTTSBLUFF, NEBRASKA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	.03	[illegible]	[illegible]	[illegible]	.05	[illegible]	.07	.07	[illegible]	.08
DATE	[illegible]	[illegible]	[illegible]	26	28	28	28	28	28	28	28	28
TIME	1600	1600	1600	1600	1600	1600	1600	[illegible]	1630	1630	1740	1740
FEB	T	[illegible]	[illegible]	.02	[illegible]	.02	.02	.03	.03	.03	[illegible]	.04
DATE		[illegible]	[illegible]	11	11	11	[illegible]	14	14	[illegible]	[illegible]	14
TIME		0137	[illegible]	[illegible]	0157	0212	2200	2230	2250	2135	2205	2240
MAR	[illegible]	.03	[illegible]	.05	.08	.10	[illegible]	.17	.20	[illegible]	.28	.35
DATE	27	27	27	27	27	27	27	27	27	27	27	27
TIME	0435	0435	[illegible]	0435	0435	0435	[illegible]	0435	[illegible]	0500	0530	0530
APR	.03	.05	[illegible]	.07	[illegible]	.13	.18	.22	.25	.27	.30	.34
DATE	[illegible]	07	07	07	07	07	27	28	28	[illegible]	28	28
TIME	2119	[illegible]	2119	[illegible]	[illegible]	2145	2354	[illegible]	[illegible]	0054	[illegible]	0054
MAY	[illegible]	.08	[illegible]	.11	.14	.17	.22	.29	.34	[illegible]	.42	.47
DATE	[illegible]	22	[illegible]	22	22	12	12	12	12	[illegible]	12	[illegible]
TIME	1953	[illegible]	1943	1938	1938	0816	0816	0816	0745	0745	[illegible]	[illegible]
JUN	[illegible]	[illegible]	[illegible]	.24	.29	.33	[illegible]	.34	.34	[illegible]	.34	.34
DATE	07	[illegible]	[illegible]	25	25	25	25	25	25	25	25	25
TIME	1917	1919	1930	1805	[illegible]	1830	1845	1845	1845	1845	1845	1845
JUL	.15	.24	[illegible]	.27	.29	.30	.42	.44	.46	[illegible]	[illegible]	[illegible]
DATE	05	05	[illegible]	05	[illegible]	[illegible]	05	05	[illegible]	05	[illegible]	[illegible]
TIME	1405	1412	1417	[illegible]	[illegible]	1445	1502	1515	1515	1515	1515	1515
AUG	.03	.04	[illegible]	[illegible]	[illegible]	.04	.06	.06	.08	[illegible]	.11	.14
DATE	[illegible]	15	[illegible]	15	15	15	15	13	13	13	[illegible]	[illegible]
TIME	1610	[illegible]	1615	1615	1615	[illegible]	1615	1100	0615	[illegible]	0715	0735
SEP	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.08	.09	.09	.09	.12	.15
DATE	[illegible]	29	[illegible]	29	29	[illegible]	29	[illegible]	29	29	[illegible]	29
TIME	[illegible]	[illegible]	[illegible]	2002	2002	[illegible]	2002	2100	2100	2100	2120	[illegible]
OCT	[illegible]	.03	[illegible]	[illegible]	.06	.09	.11	.13	[illegible]	[illegible]	.20	.20
DATE	[illegible]	23	[illegible]	[illegible]	23	23	23	23	23	23	23	23
TIME	1704	1705	1705	[illegible]	1715	1730	1745	1755	1805	1805	1805	1805
NOV	[illegible]	.02	[illegible]	.04	.05	.06	.08	.10	.13	.14	.16	[illegible]
DATE	[illegible]	[illegible]	29	29	29	29	29	[illegible]	[illegible]	29	29	29
TIME	1619	1619	1619	1619	1635	[illegible]	1640	1640	1630	1706	1706	1729
DEC	.02	.03	[illegible]	[illegible]	07	.09	.11	.12	.13	.16	.18	.21
DATE	31	31	[illegible]	31	[illegible]	31	31	[illegible]	31	[illegible]	31	31
TIME	1345	1345	1345	1345	1645	[illegible]	1645	1645	1645	1645	1645	1700
YEAR	[illegible]	[illegible]	[illegible]	.27	.29	.33	.42	.44	.46	[illegible]	.46	.47
MONTH	07	[illegible]	[illegible]	07	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	07	07	[illegible]

VALENTINE, NEBRASKA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	[illegible]	[illegible]	.05	[illegible]	.07	.08	.10	.11	[illegible]	.15
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18	[illegible]	[illegible]	[illegible]	[illegible]	18	18
TIME	[illegible]	1534	[illegible]	[illegible]	1437	[illegible]	1432	1550	1555	[illegible]	1600	1600
FEB	[illegible]	[illegible]	[illegible]	.01	.02	[illegible]	.02	.03	[illegible]	[illegible]	.05	.06
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	08	[illegible]	[illegible]	[illegible]	08
TIME	[illegible]	[illegible]	[illegible]	0320	0330	0340	0345	0405	0420	0500	0510	0540
MAR	[illegible]	[illegible]	[illegible]	.04	.05	[illegible]	.09	.10	.12	.13	[illegible]	.18
DATE	26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	26	[illegible]	26	27	[illegible]	[illegible]
TIME	2235	[illegible]	2245	2245	2300	[illegible]	2330	[illegible]	[illegible]	[illegible]	0040	0100
APR	[illegible]	[illegible]	.08	[illegible]	[illegible]	.15	.23	.25	[illegible]	.27	.27	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	07	[illegible]	[illegible]	07	07	[illegible]
TIME	1645	[illegible]	[illegible]	[illegible]	1700	1655	1725	1725	[illegible]	1800	1830	1900
MAY	[illegible]	[illegible]	.14	.15	[illegible]	[illegible]	.18	.19	.19	[illegible]	.19	.20
DATE	[illegible]	10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	1422	[illegible]	1430	[illegible]	1500	[illegible]	[illegible]	[illegible]	1521	1521
JUN	[illegible]	.27	[illegible]	.34	.43	.48	.53	.57	[illegible]	.59	.59	[illegible]
DATE	[illegible]	[illegible]	21	[illegible]	[illegible]	21	21	[illegible]	[illegible]	21	21	21
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1630	[illegible]	1700	1720	[illegible]	[illegible]	1745	1815
JUL	[illegible]	.39	[illegible]	[illegible]	.58	.63	[illegible]	.65	.65	[illegible]	.65	[illegible]
DATE	21	21	[illegible]	[illegible]	21	[illegible]	21	[illegible]	21	[illegible]	21	[illegible]
TIME	1916	[illegible]	[illegible]	[illegible]	[illegible]	1951	2000	2015	2015	2015	2015	2015
AUG	[illegible]	[illegible]	[illegible]	.32	[illegible]	.69	[illegible]	1.07	1.17	[illegible]	[illegible]	[illegible]
DATE	[illegible]	15	[illegible]	[illegible]	[illegible]	20	20	[illegible]	[illegible]	[illegible]	[illegible]	20
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2200	[illegible]	2238	2245	[illegible]	2300
SEP	[illegible]	[illegible]	[illegible]	[illegible]	.18	.18	[illegible]	.18	.18	[illegible]	[illegible]	.18
DATE	[illegible]	[illegible]	[illegible]	[illegible]	10	[illegible]	10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	1700	[illegible]	[illegible]	[illegible]	1710	1725	1725	1745	1805	1625	1855	1925
OCT	[illegible]	[illegible]	[illegible]	[illegible]	.04	[illegible]	.05	[illegible]	.06	.07	[illegible]	.09
DATE	[illegible]	[illegible]	[illegible]	[illegible]	23	[illegible]	23	23	[illegible]	23	[illegible]	23
TIME	2015	[illegible]	[illegible]	[illegible]	[illegible]	2050	2050	2122	2142	[illegible]	[illegible]	2225
NOV	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.15	[illegible]	.25	[illegible]	[illegible]	.42
DATE	[illegible]	[illegible]	[illegible]	[illegible]	19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19	19
TIME	[illegible]	[illegible]	1215	[illegible]	[illegible]	[illegible]	1200	1220	[illegible]	[illegible]	[illegible]	1300
DEC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.07
DATE	[illegible]	[illegible]	[illegible]	[illegible]	27	27	27	[illegible]	[illegible]	27	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1500	1500	1522	[illegible]	1500	1500	[illegible]
YEAR	[illegible]	[illegible]	[illegible]	.53	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.25	1.28	1.28
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	07	08	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

ELKO, NEVADA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	.04	[illegible]	[illegible]	[illegible]	.08	.10	.12	[illegible]	.17	[illegible]	.26
DATE	[illegible]	06	[illegible]	[illegible]	[illegible]	06	06	[illegible]	[illegible]	06	[illegible]	06
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1000	1000	[illegible]	0800	0830	0930	1000
FEB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.08	.11	[illegible]	.15	.17	.18
DATE	[illegible]	[illegible]	[illegible]	[illegible]	19	[illegible]	[illegible]	[illegible]	19	[illegible]	[illegible]	19
TIME	1505	[illegible]	1515	[illegible]	[illegible]	1545	1600	1620	[illegible]	1700	1730	1800
MAR	.03	.06	[illegible]	.09	.12	[illegible]	[illegible]	[illegible]	[illegible]	.33	.35	.39
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	25	[illegible]	[illegible]	25	25	25
TIME	0445	[illegible]	[illegible]	0445	0500	[illegible]	0500	0520	0520	0600	[illegible]	0615
APR	[illegible]	[illegible]	[illegible]	[illegible]	.12	[illegible]	.17	.21	.23	.24	.27	.28
DATE	[illegible]	[illegible]	[illegible]	05	05	[illegible]	05	[illegible]	05	05	05	05
TIME	[illegible]	[illegible]	1250	2310	2320	[illegible]	[illegible]	[illegible]	2215	2200	[illegible]	2100
MAY	.03	[illegible]	.06	[illegible]	.06	[illegible]	.10	.12	[illegible]	[illegible]	.19	.20
DATE	[illegible]	[illegible]	[illegible]	27	[illegible]	[illegible]	04	[illegible]	[illegible]	[illegible]	[illegible]	04
TIME	[illegible]	[illegible]	[illegible]	[illegible]	0940	1645	0050	0115	[illegible]	0150	0230	0325
JUN	[illegible]	.05	.05	[illegible]	.05	.05	[illegible]	[illegible]	.10	.10	.13	.13
DATE	02	02	[illegible]	[illegible]	[illegible]	02	25	25	[illegible]	[illegible]	25	[illegible]
TIME	1030	[illegible]	1030	[illegible]	[illegible]	[illegible]	0500	0525	[illegible]	0615	0630	0630
JUL	[illegible]	[illegible]	.05	.05	[illegible]	.06	.07	.07	.07	[illegible]	[illegible]	.07
DATE	12	[illegible]	12	[illegible]	12	[illegible]	12	[illegible]	[illegible]	12	[illegible]	12
TIME	1425	[illegible]	[illegible]	[illegible]	1445	1445	1515	1515	1515	1515	1515	1515
AUG	[illegible]	[illegible]	.02	.03	.04	[illegible]	.07	.08	.10	.10	.10	[illegible]
DATE	[illegible]	19	[illegible]	19	[illegible]	19	19	19	19	[illegible]	19	19
TIME	[illegible]	[illegible]	0855	[illegible]	0900	0900	[illegible]	[illegible]	0900	[illegible]	0900	0900
SEP	[illegible]	.05	[illegible]	.07	[illegible]	[illegible]	.07	[illegible]	.07	[illegible]	[illegible]	.07
DATE	[illegible]	[illegible]	10	[illegible]	[illegible]	10	10	[illegible]	[illegible]	10	[illegible]	10
TIME	1355	[illegible]	1405	[illegible]	1420	1435	1450	1505	1505	1505	1505	1505
OCT	[illegible]	.07	[illegible]	[illegible]	.12	.18	.21	[illegible]	.27	[illegible]	.35	.50
DATE	26	[illegible]	[illegible]	[illegible]	11	[illegible]	07	[illegible]	[illegible]	[illegible]	07	[illegible]
TIME	1320	0138	0144	[illegible]	[illegible]	0200	0215	0237	0259	0312	0351	[illegible]
NOV	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE												
TIME												
DEC	[illegible]	[illegible]	.02	.02	[illegible]	[illegible]	.03	.03	.03	[illegible]	.04	.05
DATE	[illegible]	13	[illegible]	13	13	22	22	22	[illegible]	22	22	22
TIME	[illegible]	0445	[illegible]	0545	0000	[illegible]	[illegible]	1830	1830	1830	[illegible]	[illegible]
YEAR	.05	.07	[illegible]	.10	.12	.18	.21	.25	[illegible]	[illegible]	.35	[illegible]
MONTH	[illegible]	10	[illegible]	10+	[illegible]	10	10	10	[illegible]	[illegible]	10+	10

ELY, NEVADA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	.03	.03	[illegible]	.05	.07	.08	.09	[illegible]	.12	.12	.13
DATE	06	[illegible]	[illegible]	[illegible]	06	06	[illegible]	[illegible]	06	06	[illegible]	[illegible]
TIME	1049	[illegible]	1059	1104	1115	1115	1118	1103	1112	1112	1130	1145
FEB	.02	.04	[illegible]	.06	[illegible]	.08	.08	.10	.11	.12	.13	.14
DATE	04	[illegible]	04	04	04	[illegible]	04	[illegible]	16	16	16	16
TIME	[illegible]	1423	1428	1433	1443	[illegible]	1500	1520	1230	1235	1240	1245
MAR	[illegible]	.05	[illegible]	.06	.09	.13	.17	[illegible]	.18	[illegible]	.19	.22
DATE	[illegible]	25	25	25	16	16	16	16	16	16	11	11
TIME	1050	[illegible]	1045	1035	[illegible]	1032	1047	1107	1127	1147	0030	0033
APR	.03	[illegible]	[illegible]	[illegible]	.08	.10	[illegible]	.12	.14	.16	.18	.22
DATE	25	[illegible]	[illegible]	[illegible]	25	25	25	25	[illegible]	25	[illegible]	25
TIME	0417	[illegible]	[illegible]	0431	[illegible]	0505	0515	0536	[illegible]	[illegible]	0636	[illegible]
MAY	[illegible]	.05	.06	.08	[illegible]	[illegible]	.16	.21	.26	.29	.32	.34
DATE	05	[illegible]	05	05	[illegible]	[illegible]	04	[illegible]	04	04	04	04
TIME	1735	[illegible]	1735	1740	1745	0615	0630	0635	0655	0710	0745	0815
JUN	.02	[illegible]	[illegible]	.05	.05	.07	.09	.10	.10	.10	.10	.11
DATE	19	[illegible]	19	[illegible]	[illegible]	[illegible]	20	20	20	20	20	20
TIME	0040	[illegible]	[illegible]	0046	0046	0059	0113	0120	0120	0120	0120	0120
JUL	.19	.34	.40	.41	.41	.41	.41	.41	.41	.41	[illegible]	.41
DATE	04	[illegible]	04	[illegible]	04	04	04	[illegible]	04	[illegible]	04	04
TIME	1845	[illegible]	1855	1858	1858	1858	1858	1858	1858	1858	1858	1858
AUG	.04	.04	[illegible]	.07	.09	[illegible]	[illegible]	.23	.26	[illegible]	.32	.35
DATE	21	21	[illegible]	[illegible]	[illegible]	[illegible]	20	20	20	[illegible]	20	20
TIME	1713	1713	1848	[illegible]	1955	[illegible]	1948	1948	1948	1948	1948	1948
SEP	[illegible]	.09	.10	.12	.12	.12	.13	.14	.15	.15	.15	[illegible]
DATE	11	11	[illegible]	11	[illegible]	11	11	11	[illegible]	[illegible]	11	11
TIME	[illegible]	1114	1115	1145	1145	1245	1200	1220	1240	1345	1345	2005
OCT	[illegible]	.03	[illegible]	.05	.08	.10	.11	.12	.16	.19	[illegible]	.26
DATE	11	11	11	[illegible]	[illegible]	[illegible]	07	07	11	11	[illegible]	11
TIME	0912	0917	[illegible]	0547	0603	[illegible]	0620	0640	0950	1005	1035	[illegible]
NOV	.01	.02	.03	.04	.05	.07	.09	.10	[illegible]	.10	.10	.11
DATE	28	28	28	28	28	28	28	28	[illegible]	[illegible]	28	28
TIME	0720	0725	[illegible]	0730	0730	0730	0730	0745	0745	0745	0745	[illegible]
DEC	.04	.05	[illegible]	[illegible]	.09	.11	.12	.15	.16	[illegible]	.17	.17
DATE	12	12	[illegible]	12	12	12	12	12	[illegible]	[illegible]	[illegible]	12
TIME	[illegible]	1357	[illegible]	[illegible]	1414	1429	1444	[illegible]	[illegible]	1544	[illegible]	1634
YEAR	.19	.34	.40	.41	.41	[illegible]	.41	.41	.41	[illegible]	.41	[illegible]
MONTH	07	[illegible]	[illegible]	07	07	07	[illegible]	07	[illegible]	[illegible]	[illegible]	07

MAXIMUM SHORT DURATION PRECIPITATION

LAS VEGAS, NEVADA

	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
JAN	T	T	T	T	T	.01	.01	.01	[illegible]	.01	.01	.01
DATE						08	08	08	[illegible]	08	[illegible]	08
TIME						[illegible]	1947	[illegible]	1947	1947	1947	1947
FEB	[illegible]	.01	.01	.01	.02	.03	.03	.03	.03	.03	[illegible]	[illegible]
DATE	14	14	14	14	14	[illegible]	14	[illegible]	14	14	14	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	0429	[illegible]	0429	0429	0429	[illegible]	[illegible]	0429
MAR	[illegible]	.07	[illegible]	.11	.16	[illegible]	.28	.39	.47	.54	[illegible]	.61
DATE	[illegible]	31	31	31	31	31	31	31	31	[illegible]	31	31
TIME	[illegible]	2254	[illegible]	2304	2318	[illegible]	2306	[illegible]	2313	[illegible]	[illegible]	2342
APR	[illegible]	.05	[illegible]	.06	[illegible]	.11	.12	.15	.17	[illegible]	[illegible]	.20
DATE	[illegible]	[illegible]	[illegible]	11	01	11	[illegible]	11	11	11	11	11
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1244	1249	[illegible]	1340	1400	[illegible]	1447
MAY	[illegible]	.19	[illegible]	.24	.29	[illegible]	.33	.33	[illegible]	.33	[illegible]	.33
DATE	[illegible]	[illegible]	20	20	[illegible]	20	20	20	20	20	20	20
TIME	[illegible]	[illegible]	1506	1508	1509	1524	1539	[illegible]	[illegible]	1605	1605	1605
JUN	T	T	T	T	T	T	T	T	[illegible]	[illegible]	[illegible]	[illegible]
DATE												
TIME												
JUL	[illegible]	.06	.08	.09	[illegible]	.09	.09	.09	[illegible]	[illegible]	.12	.15
DATE	[illegible]	03	03	[illegible]	[illegible]	03	03	[illegible]	[illegible]	03	[illegible]	[illegible]
TIME	[illegible]	[illegible]	1857	[illegible]	[illegible]	[illegible]	[illegible]	1857	[illegible]	1857	[illegible]	2121
AUG	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.04	.04	.04	.04	[illegible]	[illegible]
DATE	[illegible]	[illegible]	20	[illegible]	[illegible]	20	20	[illegible]	20	20	[illegible]	[illegible]
TIME	[illegible]	[illegible]	1142	1147	[illegible]	[illegible]	1148	1148	1148	1148	[illegible]	1148
SEP	.16	.24	.35	[illegible]	[illegible]	[illegible]	.86	.91	[illegible]	[illegible]	.91	[illegible]
DATE	[illegible]	[illegible]	[illegible]	16	[illegible]	16	[illegible]	[illegible]	16	16	16	16
TIME	[illegible]	[illegible]	[illegible]	1424	1424	1424	1440	1500	[illegible]	1540	[illegible]	1640
OCT	T	T	T	T	.01	.01	.02	.02	.02	.03	[illegible]	.03
DATE					30	30	[illegible]	31	31	31	31	[illegible]
TIME					2337	[illegible]	0007	0027	0047	[illegible]	[illegible]	0117
NOV	T	T	T	T	T	T	T	T	T	T	T	T
DATE												
TIME												
DEC	.02	.02	.03	.03	.04	.04	[illegible]	[illegible]	[illegible]	.05	.05	.05
DATE	13	13	[illegible]	[illegible]	[illegible]	13	13	13	13	[illegible]	[illegible]	13
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1546	[illegible]	1546	1625	1625	[illegible]	1625	1625
YEAR	.16	.24	.35	[illegible]	.50	.60*	.86	.91	.91	.91	[illegible]	[illegible]
MONTH	09	[illegible]	09	09	09	09	[illegible]	09	09	09	[illegible]	[illegible]

CONCORD, NEW HAMPSHIRE

	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
JAN	.03	.09	[illegible]	.09	.13	[illegible]	.23	.28	[illegible]	[illegible]	.40	.46
DATE	25	25	25	25	25	[illegible]	25	[illegible]	25	[illegible]	25	25
TIME	[illegible]	[illegible]	[illegible]	1917	1920	[illegible]	1945	1945	1955	2010	2015	2015
FEB	.02	.04	.05	[illegible]	[illegible]	[illegible]	.13	.15	[illegible]	.21	[illegible]	.29
DATE	25	25	25	25	25	25	[illegible]	[illegible]	[illegible]	[illegible]	25	25
TIME	[illegible]	1440	[illegible]	1440	[illegible]	[illegible]	1440	1440	[illegible]	1440	1230	1230
MAR	[illegible]	.06	[illegible]	[illegible]	.11	[illegible]	.22	.28	[illegible]	[illegible]	[illegible]	.55
DATE	[illegible]	20	20	20	20	20	20	20	[illegible]	[illegible]	20	20
TIME	[illegible]	0400	[illegible]	0405	0330	[illegible]	0402	0422	[illegible]	0422	[illegible]	0450
APR	[illegible]	.08	.12	[illegible]	[illegible]	[illegible]	[illegible]	.32	[illegible]	.54	.63	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	03	[illegible]	[illegible]	[illegible]	[illegible]	03	03	[illegible]
TIME	[illegible]	[illegible]	1432	[illegible]	[illegible]	1432	[illegible]	[illegible]	[illegible]	1500	1530	1600
MAY	.25	.37	[illegible]	[illegible]	[illegible]	[illegible]	.42	.42	.42	.42	[illegible]	[illegible]
DATE	[illegible]	[illegible]	27	27	27	[illegible]	27	[illegible]	[illegible]	27	[illegible]	[illegible]
TIME	[illegible]	1700	1705	1710	[illegible]	[illegible]	[illegible]	1729	1729	1729	1729	1729
JUN	.05	.10	.13	.18	.23	.30	[illegible]	.47	[illegible]	.68	.73	.79
DATE	[illegible]	06	[illegible]	06	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	06	[illegible]
TIME	0659	0659	0700	0700	0708	0708	0708	[illegible]	0746	0748	0832	0845
JUL	.22	.31	[illegible]	.31	.35	.39	.40	[illegible]	[illegible]	.51	.53	[illegible]
DATE	[illegible]	20	20	20	21	21	25	[illegible]	25	[illegible]	21	[illegible]
TIME	1730	1734	[illegible]	[illegible]	[illegible]	0405	0025	0040	0045	0518	0548	0618
AUG	[illegible]	.08	.10	[illegible]	.17	.23	.31	[illegible]	.50	[illegible]	.72	.81
DATE	[illegible]	22	30	30	30	30	[illegible]	[illegible]	[illegible]	30	[illegible]	30
TIME	0158	0155	0121	0126	0124	[illegible]	0414	0414	0434	[illegible]	0456	0456
SEP	.15	.23	.31	[illegible]	.33	.54	[illegible]	[illegible]	.80	[illegible]	1.09	1.35
DATE	[illegible]	27	27	27	[illegible]	27	[illegible]	[illegible]	27	27	27	27
TIME	0117	0127	[illegible]	[illegible]	0142	0126	0128	0128	0128	0128	0128	0128
OCT	[illegible]	.07	[illegible]	.12	[illegible]	.25	.38	.48	.60	.72	.88	.95
DATE	[illegible]	11	11	11	[illegible]	[illegible]	11	[illegible]	11	11	11	11
TIME	2100	2110	2115	2125	2140	2215	2230	2255	2300	2300	2300	2300
NOV	.08	[illegible]	[illegible]	.20	[illegible]	[illegible]	[illegible]	[illegible]	.36	.38	[illegible]	[illegible]
DATE	21	[illegible]	21	21	21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21	21
TIME	1630	1630	1630	1630	1630	1630	[illegible]	1900	[illegible]	1940	[illegible]	2040
DEC	[illegible]	.05	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.42	.50	[illegible]
DATE	26	[illegible]	[illegible]	[illegible]	[illegible]	26	[illegible]	[illegible]	[illegible]	26	[illegible]	[illegible]
TIME	[illegible]	1513	[illegible]	1442	1442	1442	1442	1501	1501	[illegible]	1508	1508
YEAR	.25	.37	.40	.41	.42	.54	.64	[illegible]	.80	[illegible]	1.09	1.35
MONTH	05	[illegible]	[illegible]	05	[illegible]	[illegible]	09	[illegible]	09	[illegible]	09	[illegible]

TRENTON, NEW JERSEY

	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
JAN	.07	[illegible]	.13	[illegible]	[illegible]	.19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.62
DATE	18	18	[illegible]	18	[illegible]	[illegible]	[illegible]	18	[illegible]	18	18	[illegible]
TIME	[illegible]	[illegible]	1445	1450	1450	1450	[illegible]	1540	1500	1540	1540	1540
FEB	[illegible]	.09	[illegible]	.12	[illegible]	.27	.36	[illegible]	[illegible]	.53	.57	[illegible]
DATE	24	24	24	[illegible]	23	23	[illegible]	[illegible]	23	23	[illegible]	23
TIME	[illegible]	[illegible]	[illegible]	[illegible]	0900	0900	0900	1020	1040	1040	[illegible]	1040
MAR	.10	[illegible]	[illegible]	.21	.27	.33	[illegible]	[illegible]	[illegible]	.55	[illegible]	.65
DATE	[illegible]	19	[illegible]	[illegible]	[illegible]	19	[illegible]	19	19	19	19	[illegible]
TIME	[illegible]	1745	[illegible]	1755	1805	[illegible]	1835	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
APR	[illegible]	.12	[illegible]	.15	.23	.27	[illegible]	.38	.43	.45	.52	.60
DATE	03	[illegible]	[illegible]	[illegible]	[illegible]	03	03	03	[illegible]	03	03	[illegible]
TIME	[illegible]	0530	0530	0530	[illegible]	[illegible]	0600	[illegible]	0555	0705	0720	0720
MAY	[illegible]	.39	.39	[illegible]	.39	.39	[illegible]	[illegible]	[illegible]	.70	[illegible]	.83
DATE	31	31	31	31	[illegible]	[illegible]	13	[illegible]	[illegible]	13	[illegible]	13
TIME	2359	[illegible]	[illegible]	[illegible]	2359	2359	[illegible]	1831	1858	1911	1943	2012
JUN	.20	.29	[illegible]	[illegible]	.41	[illegible]	[illegible]	.58	.60	.71	.88	[illegible]
DATE	01	[illegible]	[illegible]	[illegible]	01	01	05	[illegible]	[illegible]	01	01	[illegible]
TIME	[illegible]	0254	0254	[illegible]	0257	0258	2209	0119	0140	0256	[illegible]	[illegible]
JUL	[illegible]	.57	[illegible]	[illegible]	.97	[illegible]	[illegible]	1.73	[illegible]	2.35	2.91	[illegible]
DATE	[illegible]	[illegible]	[illegible]	13	20	20	20	[illegible]	20	20	[illegible]	20
TIME	1005	1940	1015	[illegible]	[illegible]	1940	1937	1958	[illegible]	2232	[illegible]	[illegible]
AUG	[illegible]	.16	[illegible]	.16	.20	[illegible]	[illegible]	.31	.32	.32	.32	[illegible]
DATE	[illegible]	26	[illegible]	[illegible]	[illegible]	16	[illegible]	[illegible]	16	16	[illegible]	16
TIME	2125	2127	[illegible]	[illegible]	0602	0604	0602	[illegible]	0915	[illegible]	[illegible]	0915
SEP	.33	.54	.58	[illegible]	.81	[illegible]	.95	.97	1.00	[illegible]	1.70	[illegible]
DATE	24	[illegible]	24	24	24	24	[illegible]	[illegible]	24	24	24	24
TIME	[illegible]	1214	[illegible]	[illegible]	1328	1347	1348	1348	[illegible]	[illegible]	[illegible]	[illegible]
OCT	[illegible]	.35	.38	[illegible]	.76	.94	[illegible]	1.14	1.25	1.30	1.36	[illegible]
DATE	[illegible]	18	[illegible]	[illegible]	[illegible]	18	18	18	[illegible]	18	[illegible]	18
TIME	2102	2049	[illegible]	2102	2110	2111	2128	[illegible]	[illegible]	2130	[illegible]	2215
NOV	.15	[illegible]	[illegible]	[illegible]	.30	.31	.41	.48	.58	[illegible]	[illegible]	.90
DATE	08	08	[illegible]	08	[illegible]	[illegible]	12	12	[illegible]	12	[illegible]	12
TIME	0321	0327	[illegible]	0330	0341	1926	1941	2000	2021	2039	[illegible]	2139
DEC	.05	[illegible]	.07	.09	.13	.15	.20	.26	[illegible]	.33	[illegible]	[illegible]
DATE	[illegible]	[illegible]	26	26	[illegible]	26	26	[illegible]	26	[illegible]	26	26
TIME	[illegible]	0927	[illegible]	[illegible]	0600	[illegible]	[illegible]	[illegible]	[illegible]	0700	0730	[illegible]
YEAR	[illegible]	.54	.58	.71	.97	1.32	1.50	[illegible]	[illegible]	[illegible]	2.91	3.36
MONTH	[illegible]	09	09	[illegible]	[illegible]	[illegible]	[illegible]	07	[illegible]	[illegible]	[illegible]	07

MAXIMUM SHORT DURATION PRECIPITATION

YEAR 1975

Maximum precipitation in inches (5 to 180 minutes)

ROSWELL, NEW MEXICO

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	.01	.01	[illegible]	.02	[illegible]	.03	[illegible]	.05	.06	.07	.09
DATE	[illegible]	[illegible]	01	[illegible]	01	[illegible]	01	[illegible]	[illegible]	01	01	01
TIME	[illegible]	[illegible]	933	[illegible]	[illegible]	1850	1850	[illegible]	[illegible]	2000	2020	2115
FEB	[illegible]	.04	.05	[illegible]	[illegible]	.12	.16	[illegible]	[illegible]	.28	[illegible]	.31
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	1228	1228	[illegible]	[illegible]	1228	1228	[illegible]	1228	1228	1228	[illegible]
MAR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.05	.06	.06	[illegible]	.08	[illegible]	.09
DATE	[illegible]	12	[illegible]	12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12	[illegible]	12
TIME	[illegible]	[illegible]	[illegible]	1240	1245	[illegible]	1245	[illegible]	1245	1245	1245	[illegible]
APR	[illegible]	[illegible]	[illegible]	.08	.11	.12	.12	.12	.12	.12	[illegible]	.12
DATE	[illegible]	[illegible]	[illegible]	[illegible]	10	10	[illegible]	10	[illegible]	[illegible]	10	[illegible]
TIME	[illegible]	[illegible]	[illegible]	1420	1434	[illegible]	1500	[illegible]	[illegible]	[illegible]	1500	1500
MAY	[illegible]	[illegible]	.03	[illegible]	.05	[illegible]	[illegible]	[illegible]	.08	[illegible]	[illegible]	.08
DATE	[illegible]	[illegible]	[illegible]	18	[illegible]	18	[illegible]	27	[illegible]	[illegible]	[illegible]	27
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1548	1548	1600	1620	1645	[illegible]	[illegible]	1645
JUN	[illegible]	.24	.27	.28	[illegible]	[illegible]	.29	.29	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	09	09	[illegible]	09	[illegible]	09	[illegible]	09
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1900	1915	[illegible]	1915	1915	[illegible]	[illegible]
JUL	[illegible]	[illegible]	[illegible]	[illegible]	.43	[illegible]	.59	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	10	[illegible]	10	[illegible]	22	22	[illegible]	[illegible]	[illegible]	[illegible]	22
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0405	[illegible]	[illegible]	0510	0605
AUG	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.62	[illegible]	.63	.65	.65	[illegible]
DATE	[illegible]	[illegible]	[illegible]	13	13	13	[illegible]	13	[illegible]	13	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	2330	[illegible]	2350	2350	2350	[illegible]	[illegible]	2350
SEP	[illegible]	[illegible]	[illegible]	.59	.73	.81	[illegible]	[illegible]	.91	.92	.92	.92
DATE	[illegible]	11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1747	1800	1815	1900	[illegible]	[illegible]	[illegible]	2015
OCT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.16	.16	[illegible]	[illegible]	[illegible]	.16
DATE	[illegible]	21	21	[illegible]	21	21	21	[illegible]	21	21	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	2105	[illegible]	[illegible]	2130	[illegible]	2130	[illegible]	2130	2130
NOV	T	T	T	T	T	T	T	T	T	T	T	T
DATE												
TIME												
DEC	[illegible]	.01	.01	[illegible]	[illegible]	.02	.02	.02	.02	.02	.02	.02
DATE	[illegible]	[illegible]	24	[illegible]	24	[illegible]	24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	1050	[illegible]	1105	1105	[illegible]	1105	[illegible]	[illegible]	1105	[illegible]	1105
YEAR	[illegible]	[illegible]	[illegible]	.59	.73	[illegible]	[illegible]	.87	[illegible]	.92	.92	.92
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	09	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		09

ALBANY, NEW YORK

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	[illegible]	[illegible]	.12	[illegible]	.17	.19	.20	.21	.29	.34
DATE	29	29	29	29	29	29	29	29	09	09	09	09
TIME	1030	1035	1040	[illegible]	1055	1055	1055	1105	[illegible]	[illegible]	1035	1050
FEB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.20	[illegible]	[illegible]	.35	.39	.46
DATE	23	24	24	24	24	24	24	24	24	24	24	24
TIME	[illegible]	[illegible]	[illegible]	1000	[illegible]	1206	[illegible]	1210	1230	1250	1250	1250
MAR	[illegible]	[illegible]	.06	[illegible]	.11	.15	[illegible]	.23	[illegible]	[illegible]	.35	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	19	[illegible]	19	19	19	19	19	[illegible]
TIME	2000	2005	2010	2015	2025	2025	2030	2055	2110	2125	2130	[illegible]
APR	[illegible]	[illegible]	[illegible]	.12	[illegible]	[illegible]	.29	[illegible]	.39	.46	.55	.62
DATE	03	3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	03	03	03	03	[illegible]
TIME	[illegible]	0637	0637	[illegible]	1155	[illegible]	1215	[illegible]	1215	[illegible]	1230	[illegible]
MAY	[illegible]	.23	[illegible]	[illegible]	[illegible]	.27	[illegible]	[illegible]	[illegible]	.32	.38	.41
DATE	[illegible]	[illegible]	24	26	[illegible]	[illegible]	26	16	[illegible]	12	12	12
TIME	[illegible]	[illegible]	[illegible]	1250	1300	[illegible]	1300	0225	[illegible]	1907	1928	1950
JUN	.25	.42	.43	[illegible]	.50	.51	.53	.57	.58	.58	.58	.58
DATE	03	3	[illegible]	03	[illegible]	3	03	[illegible]	[illegible]	[illegible]	03	03
TIME	[illegible]	1529	1533	1538	1548	[illegible]	1618	1638	[illegible]	[illegible]	1638	1638
JUL	.31	[illegible]	.59	[illegible]	[illegible]	.69	[illegible]	1.07	[illegible]	[illegible]	1.38	1.39
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16	16	[illegible]	16
TIME	[illegible]	[illegible]	1550	[illegible]	1555	1705	1720	1722	[illegible]	1817	[illegible]	1902
AUG	.72	[illegible]	[illegible]	.58	[illegible]	[illegible]	.70	.75	.76	.76	.80	.81
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	04	[illegible]	[illegible]	04	[illegible]	[illegible]
TIME	1632	[illegible]	[illegible]	1647	[illegible]	1712	[illegible]	1747	1807	1827	1857	1927
SEP	.18	[illegible]	.22	[illegible]	[illegible]	[illegible]	.40	[illegible]	.62	.62	.62	[illegible]
DATE	20	[illegible]	20	[illegible]	[illegible]	21	21	21	21	21	21	21
TIME	1350	1350	[illegible]	0205	0215	0230	0245	0305	[illegible]	[illegible]	0325	0325
OCT	.15	[illegible]	[illegible]	.28	.38	[illegible]	.51	.60	.67	.77	[illegible]	.99
DATE	[illegible]	[illegible]	18	[illegible]	[illegible]	[illegible]	18	[illegible]	[illegible]	18	18	[illegible]
TIME	0705	[illegible]	[illegible]	0710	0710	0710	0710	0710	0710	[illegible]	0745	0745
NOV	[illegible]	[illegible]	.19	[illegible]	[illegible]	[illegible]	.28	.33	.39	[illegible]	.45	.46
DATE	[illegible]	21	[illegible]	21	21	[illegible]	[illegible]	21	21	[illegible]	21	[illegible]
TIME	1333	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1428	1448	1508	1528	1558	1628
DEC	[illegible]	[illegible]	[illegible]	[illegible]	.12	.15	.15	.21	.23	[illegible]	.25	.26
DATE	01	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	01	01
TIME	[illegible]	[illegible]	0443	[illegible]	[illegible]	0513	0528	0548	0608	[illegible]	[illegible]	0728
YEAR	[illegible]	[illegible]	.59	[illegible]	.64	[illegible]	[illegible]	1.07	[illegible]	1.25	[illegible]	1.39
MONTH	07	7	07	[illegible]	07	[illegible]	7	[illegible]	7	[illegible]	07	[illegible]

BINGHAMTON, NEW YORK

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	.06	.07	.10	.13	.15	.16	.17	.20	.21	.24	.33
DATE	25	25	25	25	25	25	25	25	25	25	25	25
TIME	1202	1217	1213	1215	1227	1230	1243	1754	1759	1800	1800	1757
FEB	[illegible]	.16	.18	[illegible]	.23	.27	.30	.34	.41	.43	.50	.58
DATE	24	24	24	24	24	24	24	24	24	24	24	24
TIME	[illegible]	0835	0835	0839	0840	[illegible]	0845	0930	0930	[illegible]	1013	1013
MAR	.05	[illegible]	.08	.09	[illegible]	.13	.14	.17	[illegible]	.24	[illegible]	.28
DATE	20	[illegible]	20	20	20	20	20	20	[illegible]	20	20	20
TIME	0153	0158	0202	0205	0215	0230	0244	0248	[illegible]	0328	0358	0401
APR	[illegible]	[illegible]	.10	.12	.16	.19	.25	.28	.34	.35	.38	.39
DATE	03	3	03	03	03	03	03	03	03	03	03	03
TIME	0705	0708	0714	0715	0703	0714	0715	[illegible]	0722	0742	0812	0842
MAY	[illegible]	.08	.09	.12	.16	[illegible]	.25	.32	.40	.48	.58	.63
DATE	12	06	06	12	12	12	[illegible]	06	06	06	06	06
TIME	1514	1459	[illegible]	[illegible]	1512	1525	1500	1520	1455	1515	1545	1245
JUN	.15	.17	.18	.20	.24	.31	.35	.38	.39	.40	.40	.41
DATE	03	03	05	5	05	05	05	05	05	05	05	12
TIME	2040	[illegible]	1429	[illegible]	1445	1500	1514	1532	1558	1558	1558	0516
JUL	[illegible]	.65	.67	[illegible]	.68	.90	1.01	1.21	1.38	1.40	1.48	1.50
DATE	09	09	[illegible]	09	09	09	24	24	09	09	09	24
TIME	[illegible]	1629	[illegible]	[illegible]	1044	1652	1915	1930	1652	1652	1733	2.15
AUG	.36	.45	.47	.49	.71	[illegible]	1.06	1.17	1.24	[illegible]	1.46	1.60
DATE	24	24	24	24	24	24	24	24	24	24	24	24
TIME	[illegible]	0459	[illegible]	0458	[illegible]	0458	0500	[illegible]	0500	0515	[illegible]	0644
SEP	.17	.20	.22	[illegible]	.28	.32	.45	.54	[illegible]	.70	.83	.92
DATE	20	20	20	20	20	26	26	26	26	26	26	26
TIME	[illegible]	2323	[illegible]	2333	2343	0545	0600	0615	0615	[illegible]	0700	0730
OCT	[illegible]	.13	.14	.15	.16	.18	.26	.31	[illegible]	.44	.54	.60
DATE	15	13	13	13	18	18	19	19	19	19	19	19
TIME	2115	1729	1729	1736	0644	0654	0705	0717	[illegible]	[illegible]	0848	0914
NOV	[illegible]	[illegible]	[illegible]	.14	.16	[illegible]	.22	.27	.32	.32	.33	.35
DATE	27	27	27	27	27	27	27	27	27	27	27	27
TIME	0420	0425	0428	0431	[illegible]	[illegible]	0500	0505	0510	0545	0600	0630
DEC	.03	.05	.06	[illegible]	[illegible]	[illegible]	.18	.22	.24	.26	.30	.32
DATE	26	26	26	26	26	26	26	26	26	26	26	26
TIME	[illegible]	0610	0615	0620	[illegible]	0645	0628	0643	0700	0700	0750	0800
YEAR	[illegible]	.65	[illegible]	.67	.71	.91	1.06	1.21	1.38	1.46	1.48	1.60
MONTH	07	07	07	07	08	8	08	[illegible]	07	07	07	08

BUFFALO, NEW YORK

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	[illegible]	[illegible]	.16	.21	.28	.33	.38	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	29	29	29	[illegible]	29	29	[illegible]	29	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	0710	0725	0740	0800	[illegible]	0900	[illegible]	1000
FEB	[illegible]	.08	.09	.10	.13	[illegible]	[illegible]	.23	.27	.32	[illegible]	[illegible]
DATE	[illegible]	[illegible]	24	[illegible]	17	[illegible]	17	17	17	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1550	1605	1610	1610	[illegible]	[illegible]	1630	1645
MAR	[illegible]	[illegible]	[illegible]	[illegible]	.14	.17	.21	[illegible]	[illegible]	.31	[illegible]	.33
DATE	[illegible]	[illegible]	[illegible]	19	19	[illegible]	[illegible]	19	[illegible]	19	19	[illegible]
TIME	1205	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1235	[illegible]	[illegible]	[illegible]	1345	1415
APR	[illegible]	[illegible]	.15	[illegible]	[illegible]	[illegible]	.19	.22	.22	[illegible]	[illegible]	.40
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	03	[illegible]	[illegible]	03	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	0513	[illegible]	[illegible]	0733	[illegible]	[illegible]	0653	0723	[illegible]
MAY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.61	.64	.64	[illegible]	[illegible]	[illegible]	.64
DATE	[illegible]	[illegible]	22	22	[illegible]	21	21	[illegible]	21	21	21	21
TIME	2011	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0430	0430	0430	[illegible]
JUN	[illegible]	[illegible]	[illegible]	[illegible]	.69	.70	.71	.73	[illegible]	[illegible]	.76	.76
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15	15	[illegible]	15	15	[illegible]
TIME	2015	[illegible]	[illegible]	[illegible]	2040	2055	[illegible]	2130	2150	2210	[illegible]	[illegible]
JUL	.72	[illegible]	[illegible]	[illegible]	[illegible]	.58	[illegible]	[illegible]	[illegible]	.62	[illegible]	.62
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	20	[illegible]	[illegible]	[illegible]	2	20
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1815	[illegible]	[illegible]	1935
AUG	[illegible]	[illegible]	[illegible]	[illegible]	1.40	1.55	1.70	1.90	[illegible]	[illegible]	2.40	2.55
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	30	[illegible]	[illegible]	[illegible]	[illegible]
TIME	0350	[illegible]	0355	[illegible]	[illegible]	0025	[illegible]	0025	0050	[illegible]	0050	0050
SEP	[illegible]	[illegible]	[illegible]	.13	[illegible]	[illegible]	.23	[illegible]	.32	.34	[illegible]	.37
DATE	[illegible]	02	[illegible]	18	[illegible]	18	[illegible]	[illegible]	18	[illegible]	18	[illegible]
TIME	[illegible]	[illegible]	[illegible]	1545	1555	1607	[illegible]	[illegible]	1645	[illegible]	[illegible]	1650
OCT	[illegible]	.09	[illegible]	[illegible]	.12	.16	.19	.23	[illegible]	.32	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1240	2255	[illegible]	2330	[illegible]	[illegible]	[illegible]
NOV	.12	[illegible]	[illegible]	.21	.24	.24	.24	.24	[illegible]	.24	[illegible]	.33
DATE	[illegible]	[illegible]	[illegible]	[illegible]	10	10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	1212	[illegible]	[illegible]	[illegible]	[illegible]	1218	[illegible]	1215	1218
DEC	[illegible]	[illegible]	[illegible]	.15	[illegible]	.23	.25	.29	.32	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	06	[illegible]	[illegible]	06	[illegible]	[illegible]	15	06	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0830	0830	[illegible]	[illegible]	0830	0830
YEAR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.55	1.70	1.90	[illegible]	[illegible]	[illegible]	2.55
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	08	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

NEW YORK CENTRAL PARK, N.Y.

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.07	[illegible]	[illegible]	.13	.13	[illegible]	.24	.28	.38	[illegible]	[illegible]	[illegible]
DATE	25	25	25	25	25	18	18	18	18	18	[illegible]	18
TIME	1636	[illegible]	1646	[illegible]	1701	1540	1550	1550	1550	1535	[illegible]	1635
FEB	[illegible]	.13	[illegible]	[illegible]	.17	[illegible]	.23	.27	.28	.29	[illegible]	.47
DATE	24	24	24	24	24	24	24	24	24	24	24	24
TIME	1815	[illegible]	1815	1815	1815	1815	1815	0030	0030	0030	[illegible]	0030
MAR	.03	[illegible]	.09	.12	.17	.21	.25	.30	.32	.44	.53	.63
DATE	19	19	19	19	19	19	19	[illegible]	19	19	19	19
TIME	1535	[illegible]	1545	1550	1600	[illegible]	1630	[illegible]	[illegible]	1550	1620	1650
APR	[illegible]	[illegible]	.13	[illegible]	.19	.27	[illegible]	.45	.55	[illegible]	.71	.78
DATE	24	24	24	24	24	03	03	03	03	03	[illegible]	03
TIME	0120	0125	[illegible]	0135	[illegible]	0200	0215	0120	0140	0200	0230	[illegible]
MAY	.15	[illegible]	[illegible]	.45	[illegible]	.57	.64	.69	.70	.71	.71	.71
DATE	12	12	12	12	12	12	12	12	12	12	12	12
TIME	0230	0235	0240	[illegible]	[illegible]	0310	0325	0345	[illegible]	0425	[illegible]	0525
JUN	.42	.57	.62	[illegible]	.69	[illegible]	.76	[illegible]	.81	.81	[illegible]	[illegible]
DATE	16	16	16	[illegible]	[illegible]	16	[illegible]	[illegible]	16	16	[illegible]	[illegible]
TIME	[illegible]	1455	[illegible]	[illegible]	1515	[illegible]	1545	[illegible]	1625	1645	1715	1745
JUL	.43	.49	.58	.75	[illegible]	1.20	[illegible]	1.85	1.95	2.00	2.05	2.06
DATE	20	20	[illegible]	[illegible]	[illegible]	25	[illegible]	25	25	25	25	25
TIME	1735	1740	[illegible]	1750	[illegible]	0010	0025	[illegible]	0105	0125	0155	0225
AUG	.15	.29	[illegible]	.45	.56	.72	.72	.73	.73	.73	[illegible]	[illegible]
DATE	24	[illegible]	24	[illegible]	[illegible]	[illegible]	[illegible]	24	24	24	24	24
TIME	2130	2135	2140	2135	2145	[illegible]	2200	2220	2240	[illegible]	[illegible]	[illegible]
SEP	.25	.47	.47	[illegible]	.48	.49	.51	.52	.71	[illegible]	.92	1.27
DATE	24	24	24	24	24	24	24	24	24	[illegible]	24	[illegible]
TIME	1245	1250	1255	1300	1310	1325	1340	1400	1420	1440	1510	1540
OCT	.10	.20	.25	[illegible]	.33	.38	[illegible]	.70	.85	.97	1.12	1.24
DATE	[illegible]	17	17	17	17	17	[illegible]	17	17	[illegible]	17	17
TIME	[illegible]	[illegible]	[illegible]	0020	0030	[illegible]	0100	0120	[illegible]	0200	0145	[illegible]
NOV	.20	.21	[illegible]	.29	[illegible]	[illegible]	.57	.83	1.03	[illegible]	1.14	1.20
DATE	[illegible]	12	[illegible]	[illegible]	12	12	12	12	12	[illegible]	12	12
TIME	[illegible]	2050	[illegible]	2100	[illegible]	2125	2140	2100	2120	[illegible]	2210	2240
DEC	.04	.08	.11	[illegible]	[illegible]	.20	.25	.30	[illegible]	.49	.65	[illegible]
DATE	26	26	[illegible]	[illegible]	26	26	26	26	26	26	[illegible]	[illegible]
TIME	1020	[illegible]	[illegible]	1035	[illegible]	1030	1030	1030	1030	1030	1030	[illegible]
YEAR	.43	.57	[illegible]	[illegible]	1.00	1.20	[illegible]	[illegible]	1.95	2.00	2.05	2.06
MONTH	07	06	[illegible]	07	07	07	7	07	07	07	07	[illegible]

NEW YORK, NEW YORK J.F.K.

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	.08	.10	.12	.16	.20	.27	.31	.36	.42	.48	.51
DATE	[illegible]	06	06	06	06	[illegible]	[illegible]	06	06	[illegible]	[illegible]	[illegible]
TIME	[illegible]	1509	1509	1509	1509	1509	1509	1509	1509	1509	1509	1509
FEB	.14	.20	[illegible]	.34	.44	.52	.58	.65	.72	.74	.78	.85
DATE	24	24	24	24	24	24	24	24	24	24	24	24
TIME	0335	0340	0330	0335	0345	0350	0410	0415	0445	0500	0445	0445
MAR	.12	.19	.21	.23	.25	[illegible]	.30	.32	.37	.41	.45	.49
DATE	12	12	12	12	12	12	12	12	12	12	12	12
TIME	[illegible]	[illegible]	1655	1655	1655	1655	1655	1655	1655	1700	1730	1800
APR	.12	.16	.18	.19	.20	.24	.30	[illegible]	[illegible]	.59	.67	.72
DATE	[illegible]	03	03	03	03	03	03	03	[illegible]	03	03	03
TIME	1120	1125	1130	1135	1145	0745	0800	0820	0830	0830	0830	0830
MAY	.17	.22	.23	.25	.27	[illegible]	.43	.49	.51	.52	.56	.59
DATE	13	6	06	06	06	13	13	13	13	13	13	13
TIME	0215	2210	[illegible]	2216	2216	0255	0310	0330	0350	0400	0400	0400
JUN	.38	.55	.56	[illegible]	[illegible]	.74	.77	.84	.91	.93	.94	.98
DATE	06	6	06	[illegible]	01	01	01	01	01	01	[illegible]	01
TIME	1405	1410	1415	0145	0155	0210	0200	0245	[illegible]	0300	0315	[illegible]
JUL	.30	.44	.53	.57	[illegible]	.94	1.02	1.06	1.06	1.06	1.23	1.38
DATE	25	21	25	25	25	25	25	25	25	25	21	21
TIME	0020	0045	0045	0050	0045	0100	0115	0135	0155	0215	0100	0100
AUG	.36	.68	.88	1.08	►1.58	2.03	►2.20	2.20	2.20►	2.20	2.20►	2.20
DATE	24	24	24	24	24	24	24	24	24	24	24	24
TIME	2200	2200	2200	2200	2200	2210	2210	2210	2210	2210	2210	2210
SEP	[illegible]	.49	.60	.67	.87	.88	.93	1.12	1.16	1.56	1.92►	2.38
DATE	25	25	25	25	25	25	25	26	26	26	26	26
TIME	0550	0553	0558	[illegible]	0600	0600	0600	0935	0955	1015	1045	1115
OCT	.26	.49	.54	.64	.67	.69	.69	.70	.71	.72	.73	.78
DATE	18	18	18	18	[illegible]	18	18	18	18	18	18	18
TIME	[illegible]	0925	0925	0930	0940	0950	1010	0950	1005	1100	1100	1210
NOV	.26	.41	.49	.59	.72	.93	1.08	[illegible]	[illegible]	1.28	1.37	1.42
DATE	12	12	12	12	12	12	[illegible]	12	12	12	12	12
TIME	2055	2100	2105	2110	2120	2140	2155	2215	2235	2255	2325	2355
DEC	.04	[illegible]	.07	.09	.12	.18	.24	.27	.32	.37	.45	.50
DATE	30	30	30	30	30	30	30	30	30	30	30	30
TIME	2020	2025	2030	2115	2115	2115	2115	2155	2245	2300	2245	2300
YEAR	.38	[illegible]	.88	1.08	►1.58	2.03	►2.20	2.20	2.20►	2.20	2.20►	2.38
MONTH	06	08	08	08	08	08	08	08	08	08	08	09

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	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	.17	.13	[illegible]	.16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.51	.57
DATE	[illegible]	25	[illegible]	[illegible]	25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	1630	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1546	[illegible]	1615	1645
FEB	.15	[illegible]	[illegible]	.42	[illegible]	.53	.55	.57	[illegible]	.59	.61	.63
DATE	[illegible]	[illegible]	24	[illegible]	24	24	24	[illegible]	[illegible]	24	24	24
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1752	[illegible]	[illegible]	[illegible]	[illegible]	1937	2007
MAR	[illegible]	[illegible]	[illegible]	.11	.13	.15	.17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	12	[illegible]	[illegible]	[illegible]	12	[illegible]	[illegible]	[illegible]	[illegible]	19	[illegible]
TIME	1716	[illegible]	[illegible]	[illegible]	1623	1623	[illegible]	1716	[illegible]	1700	[illegible]	1800
APR	[illegible]	[illegible]	[illegible]	.13	.19	[illegible]	.31	[illegible]	.45	[illegible]	.60	.70
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	04	[illegible]	4
TIME	[illegible]	[illegible]	[illegible]	[illegible]	0716	[illegible]	0700	0730	0800	0800	0800	[illegible]
MAY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.05	1.07	[illegible]	[illegible]	1.09	[illegible]
DATE	[illegible]	13	[illegible]	[illegible]	[illegible]	[illegible]	13	[illegible]	[illegible]	13	13	[illegible]
TIME	1842	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1926	1947	[illegible]	[illegible]	2058	2110
JUN	[illegible]	[illegible]	[illegible]	.62	.65	.70	[illegible]	[illegible]	[illegible]	.86	.89	.91
DATE	[illegible]	01	[illegible]	01	[illegible]	[illegible]	[illegible]	01	[illegible]	[illegible]	01	[illegible]
TIME	0112	0117	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0200	0215	0243	[illegible]
JUL	[illegible]	.88	1.18	1.40►	[illegible]	[illegible]	[illegible]	2.09	[illegible]	[illegible]	2.10	[illegible]
DATE	[illegible]	[illegible]	06	[illegible]	06	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	06
TIME	[illegible]	[illegible]	[illegible]	1620	1622	[illegible]	1648	1702	1720	1720	1720	1720
AUG	[illegible]	.67	[illegible]	.79	[illegible]	1.05	1.10	1.19	[illegible]	1.20	1.25	1.25
DATE	[illegible]	[illegible]	[illegible]	24	24	24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2200	[illegible]	[illegible]	[illegible]	[illegible]	2356
SEP	[illegible]	[illegible]	[illegible]	.47	[illegible]	[illegible]	[illegible]	.86	[illegible]	1.33	[illegible]	1.78
DATE	26	[illegible]	26	[illegible]	26	[illegible]	26	[illegible]	[illegible]	26	26	26
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1125	1100	1145	1145	[illegible]	1228	[illegible]
OCT	.10	[illegible]	.18	.27	.34	[illegible]	.62	.65	[illegible]	.95	[illegible]	[illegible]
DATE	[illegible]	[illegible]	18	[illegible]	[illegible]	[illegible]	[illegible]	18	[illegible]	[illegible]	[illegible]	[illegible]
TIME	2345	[illegible]	0045	0100	[illegible]	[illegible]	0100	0100	[illegible]	[illegible]	0100	0100
NOV	.15	.27	[illegible]	.29	[illegible]	[illegible]	.71	[illegible]	.90	.92	1.03	1.09
DATE	[illegible]	12	[illegible]	12	12	12	12	[illegible]	12	12	[illegible]	12
TIME	[illegible]	2030	[illegible]	2030	2029	2040	2052	2110	[illegible]	2147	[illegible]	[illegible]
DEC	[illegible]	[illegible]	[illegible]	[illegible]	.15	.20	[illegible]	[illegible]	.44	.50	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	26	[illegible]	[illegible]	[illegible]	26	[illegible]	[illegible]
TIME	2105	[illegible]	[illegible]	[illegible]	[illegible]	1015	1015	1020	[illegible]	1030	[illegible]	1030
YEAR	.63	[illegible]	[illegible]	[illegible]	►1.62	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.10
MONTH	[illegible]	[illegible]	[illegible]	07	07	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	07

ROCHESTER, NEW YORK

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	.08	.11	.12	[illegible]	[illegible]	[illegible]	[illegible]	.29	.32	.32	.37
DATE	[illegible]	29	[illegible]	[illegible]	29	[illegible]	29	29	29	29	29	29
TIME	0740	[illegible]	[illegible]	0750	[illegible]	[illegible]	[illegible]	0830	0845	0900	0935	1000
FEB	[illegible]	[illegible]	.08	.09	.13	[illegible]	[illegible]	.23	.28	.34	.38	.41
DATE	17	17	17	17	17	[illegible]	[illegible]	17	17	[illegible]	17	17
TIME	1710	1720	[illegible]	1720	1730	1735	[illegible]	1715	[illegible]	1720	1725	1725
MAR	[illegible]	.07	[illegible]	[illegible]	[illegible]	[illegible]	.23	.28	.29	.29	[illegible]	.31
DATE	[illegible]	[illegible]	[illegible]	[illegible]	19	[illegible]	[illegible]	19	19	[illegible]	19	19
TIME	[illegible]	[illegible]	[illegible]	1230	1240	1300	1300	1320	[illegible]	1400	1430	1505
APR	.02	.04	[illegible]	.05	[illegible]	[illegible]	[illegible]	.10	.12	.15	.17	.18
DATE	[illegible]	03	03	[illegible]	[illegible]	03	03	03	03	03	03	03
TIME	1705	1710	1715	1720	1730	1745	1810	1820	1840	[illegible]	1930	2000
MAY	.25	.38	.38	.38	.38	[illegible]	.38	.38	[illegible]	.46	[illegible]	.47
DATE	21	[illegible]	[illegible]	21	21	[illegible]	21	21	31	31	31	31
TIME	[illegible]	[illegible]	[illegible]	0500	0510	0525	[illegible]	0600	2255	2315	[illegible]	2355
JUN	.22	.37	[illegible]	[illegible]	[illegible]	.75	[illegible]	.84	.85	.88	1.05	1.06
DATE	24	[illegible]	[illegible]	[illegible]	[illegible]	05	[illegible]	05	[illegible]	15	16	[illegible]
TIME	1125	1130	[illegible]	[illegible]	1305	1318	1335	[illegible]	[illegible]	2350	0015	0045
JUL	[illegible]	.17	.17	[illegible]	.25	[illegible]	[illegible]	.26	.26	[illegible]	.26	.30
DATE	[illegible]	10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	03	[illegible]	03	20
TIME	[illegible]	1711	1711	[illegible]	[illegible]	[illegible]	0950	[illegible]	[illegible]	0950	0950	1900
AUG	.15	[illegible]	.19	.25	[illegible]	[illegible]	[illegible]	.46	[illegible]	[illegible]	.52	.55
DATE	[illegible]	[illegible]	24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24	24	24
TIME	0250	[illegible]	[illegible]	0305	[illegible]	0315	[illegible]	0320	0325	0315	0325	0340
SEP	.10	[illegible]	[illegible]	.22	.25	.29	.30	[illegible]	.36	[illegible]	.45	.54
DATE	[illegible]	11	[illegible]	11	11	[illegible]	11	[illegible]	[illegible]	[illegible]	25	[illegible]
TIME	2245	2250	[illegible]	2250	2250	2255	2255	2255	[illegible]	[illegible]	1920	1950
OCT	[illegible]	.05	[illegible]	[illegible]	.11	.15	.18	[illegible]	.21	.22	.25	.30	.36
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	09	[illegible]	9	17	17	[illegible]	09
TIME	1830	[illegible]	1835	1935	[illegible]	1850	1850	1850	2335	2350	0045	[illegible]
NOV	[illegible]	[illegible]	.12	[illegible]	[illegible]	.24	.24	.24	.24	[illegible]	[illegible]	.25
DATE	10	10	[illegible]	[illegible]	10	19	10	10	10	10	10	10
TIME	1320	[illegible]	[illegible]	1320	1325	1330	1330	1330	1330	1330	1330	[illegible]
DEC	[illegible]	.09	[illegible]	.11	[illegible]	[illegible]	.23	.24	[illegible]	[illegible]	[illegible]	.33
DATE	6	6	[illegible]	[illegible]	[illegible]	[illegible]	06	6	[illegible]	09	09	09
TIME	[illegible]	[illegible]	[illegible]	[illegible]	0915	0915	0915	0935	[illegible]	[illegible]	1800	[illegible]
YEAR	[illegible]	.38	[illegible]	[illegible]	.68	.75	[illegible]	.84	.85	.88	1.05	1.06
MONTH	05	05	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	06	[illegible]	[illegible]

SYRACUSE, NEW YORK

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.08	.13	.16	.18	.29	.37	.44	.51	.56	.56	.56	.56
DATE	11	11	29	29	29	29	29	29	29	29	29	29
TIME	1526	1531	1345	1335	1345	1400	1400	1400	1410	1414	1414	1414
FEB	.06	[illegible]	.10	.12	.16	.21	.23	.26	.27	.31	.36	.39
DATE	24	24	24	24	24	24	24	24	24	24	24	24
TIME	1305	[illegible]	1315	1304	1317	1315	1330	1331	1331	1330	1330	1330
MAR	[illegible]	.07	.10	[illegible]	.16	[illegible]	.19	.19	[illegible]	.19	.20	.21
DATE	[illegible]	25	[illegible]	25	25	25	25	[illegible]	[illegible]	25	20	[illegible]
TIME	1120	1128	1132	1140	1150	[illegible]	1215	1235	1250	1315	0520	0030
APR	.04	.07	.09	[illegible]	.15	.20	.26	.32	.39	.45	.54	.61
DATE	03	03	03	03	03	03	03	03	03	03	03	03
TIME	0838	[illegible]	0843	0843	0900	0900	0910	0915	[illegible]	0930	0945	1000
MAY	.12	.20	[illegible]	.26	.28	.28	.28	.28	.28	.30	.36	.40
DATE	26	[illegible]	[illegible]	[illegible]	26	[illegible]	26	26	26	02	02	02
TIME	1620	[illegible]	1630	1635	[illegible]	1700	1708	1708	1708	0515	0545	0600
JUN	[illegible]	[illegible]	.54	.55	.59	.69	.69	[illegible]	1.00	1.14	1.22	1.31
DATE	[illegible]	23	23	23	23	23	23	[illegible]	[illegible]	05	[illegible]	05
TIME	1649	1654	1700	1705	1708	1708	1708	[illegible]	1415	1435	1512	1530
JUL	.48	[illegible]	.81	.81	[illegible]	1.28	1.44	1.62	1.74	1.76	1.76	1.76
DATE	12	12	12	12	2	24	24	20	[illegible]	[illegible]	20	20
TIME	1552	1557	1602	[illegible]	1915	1607	1622	2005	2025	2045	2056	2056
AUG	.50	[illegible]	.80	[illegible]	1.17	1.23	1.29	1.41	[illegible]	1.52	1.53	1.54
DATE	[illegible]	26	26	26	26	26	26	26	26	26	26	26
TIME	[illegible]	[illegible]	1744	[illegible]	1759	1817	1829	1849	1909	[illegible]	1959	2029
SEP	.18	[illegible]	.43	.56	.80	[illegible]	1.18	1.26	1.31	1.36	1.42	1.48
DATE	12	12	12	12	12	12	[illegible]	12	12	[illegible]	12	12
TIME	0254	0259	0304	0253	0259	[illegible]	[illegible]	0316	0336	0356	0426	0456
OCT	.08	.10	.18	.20	.28	.30	.33	.45	.52	.60	.71	.80
DATE	11	[illegible]	[illegible]	[illegible]	[illegible]	11	18	18	18	18	18	18
TIME	1355	[illegible]	[illegible]	[illegible]	1355	1410	0100	0120	0140	[illegible]	[illegible]	[illegible]
NOV	.14	.19	.21	[illegible]	.25	.26	.26	[illegible]	.28	.33	.37	.42
DATE	08	08	08	30	30	30	30	30	12	12	12	12
TIME	[illegible]	1353	1358	0233	0243	0258	[illegible]	0308	1545	1545	1545	1530
DEC	.04	[illegible]	[illegible]	[illegible]	.11	.12	[illegible]	.18	.20	.24	.30	.35
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	06	06	[illegible]	[illegible]	[illegible]	06
TIME	[illegible]	[illegible]	[illegible]	[illegible]	0115	0129	1047	1130	1418	1445	1515	1545
YEAR	.50	[illegible]	.81	1.04	1.17	1.28	1.44	1.62	1.74	1.76	1.76	1.76
MONTH	08	8+	07	08	8	7	[illegible]	07	[illegible]	07	[illegible]	07

MAXIMUM SHORT DURATION PRECIPITATION

JAN	.14	.21	[illegible]	.25	.30	.33	.37	[illegible]	.41	.68	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	10	[illegible]	10	10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	2202	[illegible]	2201	2213	2233	2243	[illegible]	2340	1500
FEB	[illegible]	[illegible]	[illegible]	.17	.20	[illegible]	[illegible]	.34	.37	.38	[illegible]	.41
DATE	[illegible]	[illegible]	23	23	23	23	23	[illegible]	23	23	[illegible]	[illegible]
TIME	[illegible]	[illegible]	2252	[illegible]	[illegible]	2252	[illegible]	2300	[illegible]	[illegible]	2332	2316
MAR	[illegible]	[illegible]	[illegible]	.53	[illegible]	[illegible]	.82	.96	1.03	[illegible]	1.19	1.29
DATE	24	[illegible]	24	[illegible]	13	13	13	[illegible]	13	[illegible]	13	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	2300	[illegible]	[illegible]	2302	2302	2300	[illegible]	[illegible]
APR	.08	.11	.15	[illegible]	.27	.28	[illegible]	[illegible]	[illegible]	.28	[illegible]	[illegible]
DATE	[illegible]	30	[illegible]	[illegible]	30	30	30	[illegible]	30	30	[illegible]	30
TIME	[illegible]	1217	1222	[illegible]	1236	1240	1240	1240	[illegible]	1240	1240	1240
MAY	[illegible]	[illegible]	.45	.81	[illegible]	[illegible]	.95	.95	.95	[illegible]	1.03	1.20
DATE	[illegible]	12	[illegible]	[illegible]	12	12	12	[illegible]	[illegible]	12	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	1230	[illegible]	1245	1245	1245	1245	[illegible]	2100	2200
JUN	[illegible]	[illegible]	[illegible]	.50	[illegible]	[illegible]	[illegible]	.60	.60	[illegible]	.62	[illegible]
DATE	[illegible]	20	20	[illegible]	[illegible]	20	20	[illegible]	[illegible]	20	[illegible]	20
TIME	[illegible]	[illegible]	[illegible]	1804	[illegible]	1810	1815	[illegible]	[illegible]	1830	1830	[illegible]
JUL	.16	.32	[illegible]	.37	[illegible]	.53	.60	.60	.60	.60	.60	.60
DATE	[illegible]	01	01	[illegible]	[illegible]	11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	1648	[illegible]	[illegible]	2113	[illegible]	2130	2130	[illegible]	[illegible]	[illegible]
AUG	.38	[illegible]	[illegible]	.57	.75	.75	[illegible]	[illegible]	.90	.91	.91	[illegible]
DATE	[illegible]	24	24	[illegible]	17	[illegible]	[illegible]	[illegible]	17	17	[illegible]	[illegible]
TIME	[illegible]	1709	[illegible]	[illegible]	1545	1545	1545	[illegible]	[illegible]	1605	[illegible]	[illegible]
SEP	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.54	1.70	[illegible]	1.80	1.83	2.02
DATE	23	[illegible]	23	23	23	23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	23
TIME	[illegible]	[illegible]	[illegible]	[illegible]	2005	[illegible]	2005	2002	[illegible]	2010	2045	[illegible]
OCT	.12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.36	.47	.60	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17	[illegible]	[illegible]	17	17	17
TIME	[illegible]	[illegible]	[illegible]	1031	[illegible]	[illegible]	1015	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
NOV	[illegible]	.18	.19	.22	[illegible]	[illegible]	.35	[illegible]	[illegible]	[illegible]	.50	[illegible]
DATE	[illegible]	[illegible]	[illegible]	12	12	[illegible]	07	[illegible]	[illegible]	07	[illegible]	[illegible]
TIME	0830	[illegible]	[illegible]	0845	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0732
DEC	[illegible]	[illegible]	[illegible]	.34	.43	[illegible]	[illegible]	.57	.60	.62	.65	.70
DATE	[illegible]	[illegible]	[illegible]	31	[illegible]	31	31	[illegible]	[illegible]	31	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1205	1220	1200	1216	1237	[illegible]	[illegible]	[illegible]
YEAR	.38	[illegible]	[illegible]	.81	1.26	1.36	[illegible]	1.70	[illegible]	1.80	1.83	2.02
MONTH	[illegible]	09	[illegible]	[illegible]	[illegible]	09	[illegible]	[illegible]	[illegible]	09	[illegible]	[illegible]

JAN	[illegible]	.27	[illegible]	.34	.43	[illegible]	.83	.87	[illegible]	.98	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11	[illegible]	11
TIME	[illegible]	[illegible]	[illegible]	0058	0108	0123	0138	0158	0200	0200	0230	0300
FEB	[illegible]	.09	[illegible]	.14	[illegible]	.19	.20	[illegible]	.34	.39	[illegible]	[illegible]
DATE	23	23	23	23	23	[illegible]	[illegible]	[illegible]	[illegible]	04	[illegible]	[illegible]
TIME	[illegible]	0638	[illegible]	[illegible]	0642	[illegible]	1900	1900	[illegible]	1900	[illegible]	1900
MAR	[illegible]	.30	[illegible]	[illegible]	[illegible]	[illegible]	.51	.51	[illegible]	[illegible]	.79	.85
DATE	[illegible]	19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19	[illegible]	[illegible]	13	[illegible]
TIME	[illegible]	[illegible]	0515	[illegible]	[illegible]	[illegible]	[illegible]	0525	[illegible]	[illegible]	[illegible]	0455
APR	.10	[illegible]	.12	.12	[illegible]	[illegible]	.27	.29	[illegible]	.35	.40	[illegible]
DATE	[illegible]	[illegible]	[illegible]	03	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	30	[illegible]	[illegible]
TIME	0558	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0845	0900	[illegible]	0952	0300
MAY	[illegible]	.45	.50	[illegible]	.76	[illegible]	.85	[illegible]	[illegible]	.85	[illegible]	.86
DATE	[illegible]	23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	29	29	[illegible]	29	[illegible]
TIME	[illegible]	1357	[illegible]	[illegible]	[illegible]	[illegible]	1613	1633	1653	[illegible]	[illegible]	[illegible]
JUN	.25	[illegible]	.40	[illegible]	.47	[illegible]	[illegible]	.57	.57	.63	[illegible]	.67
DATE	[illegible]	01	[illegible]	[illegible]	[illegible]	01	[illegible]	01	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0446	[illegible]	0446	[illegible]	[illegible]
JUL	[illegible]	.89	[illegible]	1.04	1.43	1.53	2.20	2.73	2.98*	[illegible]	3.10*	3.14
DATE	[illegible]	24	24	[illegible]	24	24	24	24	24	[illegible]	24	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	2022	[illegible]	[illegible]	[illegible]	2054	[illegible]	[illegible]	2214
AUG	[illegible]	.27	.29	[illegible]	[illegible]	.38	[illegible]	[illegible]	[illegible]	.38	.38	[illegible]
DATE	[illegible]	[illegible]	12	[illegible]	12	[illegible]	[illegible]	[illegible]	12	12	12	12
TIME	1530	1539	[illegible]	[illegible]	1540	[illegible]	[illegible]	[illegible]	[illegible]	1710	[illegible]	1810
SEP	.30	.47	.45	[illegible]	[illegible]	[illegible]	[illegible]	.86	[illegible]	[illegible]	1.20	1.24
DATE	[illegible]	12	06	[illegible]	[illegible]	[illegible]	06	06	[illegible]	[illegible]	23	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1607	[illegible]	0010	0040	0100
OCT	.12	[illegible]	.20	[illegible]	[illegible]	[illegible]	.47	.53	[illegible]	[illegible]	.72	.81
DATE	[illegible]	[illegible]	[illegible]	17	[illegible]	[illegible]	08	[illegible]	17	08	[illegible]	17
TIME	[illegible]	[illegible]	1030	[illegible]	1045	1100	[illegible]	1100	[illegible]	1845	1845	[illegible]
NOV	.11	[illegible]	[illegible]	.15	.15	.22	[illegible]	.35	.40	[illegible]	.48	.54
DATE	[illegible]	12	[illegible]	[illegible]	12	12	12	[illegible]	[illegible]	17	12	12
TIME	[illegible]	1308	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1808	[illegible]	1908
DEC	[illegible]	.14	[illegible]	[illegible]	.28	[illegible]	[illegible]	[illegible]	.42	[illegible]	.53	[illegible]
DATE	31	[illegible]	[illegible]	31	07	07	[illegible]	[illegible]	07	[illegible]	31	31
TIME	[illegible]	1612	1612	1425	[illegible]	[illegible]	0910	[illegible]	[illegible]	[illegible]	1612	1612
YEAR	[illegible]	[illegible]	1.00	1.04	1.43	[illegible]	2.20	2.73	2.98*	3.04	3.10*	3.14
MONTH	[illegible]	07	[illegible]	[illegible]	[illegible]	07	07	07	[illegible]	07	07	[illegible]

JAN	[illegible]	.07	[illegible]	.03	.04	.06	.08	.10	.11	.12	[illegible]	.17
DATE	[illegible]	[illegible]	[illegible]	[illegible]	09	09	[illegible]	09	[illegible]	09	[illegible]	09
TIME	0300	[illegible]	0310	0305	0530	0500	0440	[illegible]	0400	0540	[illegible]	[illegible]
FEB	[illegible]	[illegible]	.03	.03	.05	.07	.09	[illegible]	.13	[illegible]	.17	[illegible]
DATE	21	21	[illegible]	[illegible]	[illegible]	21	21	[illegible]	[illegible]	21	21	21
TIME	1600	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1600	1600	1600	1630	1700
MAR	.03	[illegible]	[illegible]	.09	.13	.20	.25	.29	[illegible]	[illegible]	.35	.35
DATE	[illegible]	26	[illegible]	[illegible]	[illegible]	[illegible]	26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	1600	1600	[illegible]	[illegible]	[illegible]	1620	[illegible]	[illegible]	1730	1800
APR	.18	[illegible]	[illegible]	.26	[illegible]	[illegible]	.42	[illegible]	[illegible]	[illegible]	[illegible]	.70
DATE	[illegible]	[illegible]	28	28	[illegible]	[illegible]	[illegible]	28	28	[illegible]	28	28
TIME	0635	[illegible]	[illegible]	0655	[illegible]	[illegible]	[illegible]	0755	0815	[illegible]	0905	0935
MAY	[illegible]	[illegible]	[illegible]	.28	[illegible]	[illegible]	.40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	10	[illegible]	[illegible]	10	10	10	[illegible]	10	[illegible]	10	10	[illegible]
TIME	1530	[illegible]	[illegible]	[illegible]	[illegible]	1550	[illegible]	1625	1645	1705	[illegible]	[illegible]
JUN	[illegible]	[illegible]	.43	[illegible]	.53	.54	[illegible]	.54	[illegible]	.90	[illegible]	[illegible]
DATE	[illegible]	29	29	29	[illegible]	29	29	29	[illegible]	30	[illegible]	30
TIME	[illegible]	2249	[illegible]	[illegible]	[illegible]	2310	2325	[illegible]	[illegible]	0025	[illegible]	[illegible]
JUL	[illegible]	[illegible]	.52	[illegible]	[illegible]	1.21	1.22	1.72	1.81	1.82	1.82	1.82
DATE	31	31	[illegible]	[illegible]	31	31	31	[illegible]	31	[illegible]	[illegible]	31
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1720	1701	1705	[illegible]	[illegible]	[illegible]
AUG	[illegible]	.10	[illegible]	.13	[illegible]	.22	.23	[illegible]	[illegible]	.23	[illegible]	.23
DATE	23	[illegible]	[illegible]	23	23	23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	0047	[illegible]	0101	0113	0128	0128	0128	[illegible]	[illegible]	[illegible]
SEP	[illegible]	[illegible]	[illegible]	.03	[illegible]	[illegible]	.05	[illegible]	.06	.07	.07	.11
DATE	18	[illegible]	[illegible]	18	18	[illegible]	19	[illegible]	19	[illegible]	[illegible]	[illegible]
TIME	2105	2105	[illegible]	[illegible]	2120	2120	2100	2120	2120	2200	2200	[illegible]
OCT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.08	[illegible]	.10	.11	.12	.13	[illegible]
DATE	[illegible]	[illegible]	09	[illegible]	09	[illegible]	09	[illegible]	09	[illegible]	09	[illegible]
TIME	0837	[illegible]	[illegible]	0850	[illegible]	0837	0837	0837	[illegible]	[illegible]	0915	[illegible]
NOV	.01	[illegible]	[illegible]	[illegible]	.02	.02	.03	.04	[illegible]	[illegible]	.05	.06
DATE	[illegible]	23	23	[illegible]	23	23	23	23	[illegible]	[illegible]	[illegible]	23
TIME	[illegible]	[illegible]	[illegible]	1150	[illegible]	[illegible]	1000	1020	1040	1100	[illegible]	1200
DEC	.01	[illegible]	[illegible]	[illegible]	.04	.05	.06	[illegible]	.08	[illegible]	.10	.11
DATE	[illegible]	25	25	[illegible]	[illegible]	25	25	[illegible]	[illegible]	[illegible]	31	31
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0945	[illegible]	0545	0545	[illegible]	[illegible]	[illegible]
YEAR	[illegible]	[illegible]	[illegible]	.60	[illegible]	1.21	1.22	1.72	[illegible]	1.82	[illegible]	[illegible]
MONTH	[illegible]	[illegible]	[illegible]	07	[illegible]	07	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

MAXIMUM SHORT DURATION PRECIPITATION

Maximum precipitation in inches (5 to 180 minutes)

[illegible]

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	.07	[illegible]	.12	[illegible]	.23	.30	.41	.51	[illegible]	.64	.69
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	08	[illegible]	[illegible]	[illegible]	[illegible]	08
TIME	[illegible]	1112	[illegible]	0540	0540	[illegible]	0540	0540	[illegible]	0550	[illegible]	0650
FEB	[illegible]	.05	[illegible]	[illegible]	[illegible]	.18	.19	[illegible]	.33	.38	.43	.46
DATE	[illegible]	[illegible]	23	[illegible]	[illegible]	[illegible]	23	23	23	23	23	[illegible]
TIME	0135	[illegible]	[illegible]	0150	[illegible]	[illegible]	0200	0243	0303	0323	0353	[illegible]
MAR	[illegible]	[illegible]	[illegible]	[illegible]	.16	[illegible]	.32	.35	.36	[illegible]	.38	.38
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	29	29	29	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0200	[illegible]	[illegible]	[illegible]	0245	[illegible]	0345
APR	[illegible]	[illegible]	[illegible]	[illegible]	.19	.21	.22	[illegible]	.24	[illegible]	.24	.24
DATE	[illegible]	[illegible]	30	[illegible]	[illegible]	[illegible]	30	[illegible]	30	30	[illegible]	30
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2021	2051	2121
MAY	[illegible]	[illegible]	[illegible]	[illegible]	.49	.49	.50	.50	.50	.52	.61	.63
DATE	31	[illegible]	[illegible]	[illegible]	31	[illegible]	31	31	[illegible]	[illegible]	31	31
TIME	0006	[illegible]	[illegible]	[illegible]	0031	[illegible]	[illegible]	0121	[illegible]	1812	[illegible]	1912
JUN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.41	.45	.58	.68	.69	[illegible]	.69
DATE	[illegible]	[illegible]	[illegible]	15	[illegible]	05	05	05	05	05	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	1743	[illegible]	0941	0956	1016	[illegible]	[illegible]	[illegible]	1156
JUL	[illegible]	[illegible]	.90	.95	[illegible]	[illegible]	1.13	1.13	1.13	1.13	1.13	1.13
DATE	[illegible]	24	24	24	[illegible]	[illegible]	24	24	24	[illegible]	24	24
TIME	[illegible]	1415	1420	1425	1435	[illegible]	1505	[illegible]	1545	1605	1635	1705
AUG	[illegible]	[illegible]	[illegible]	1.04	1.29	[illegible]	2.07	[illegible]	2.12	2.12	2.14	2.14
DATE	[illegible]	[illegible]	[illegible]	[illegible]	31	31	31	31	[illegible]	31	31	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1614	1634	[illegible]	[illegible]	1754
SEP	.15	[illegible]	[illegible]	.29	[illegible]	.35	.42	[illegible]	.55	[illegible]	.80	.85
DATE	05	[illegible]	[illegible]	[illegible]	11	[illegible]	11	[illegible]	11	11	[illegible]	[illegible]
TIME	[illegible]	2040	[illegible]	[illegible]	[illegible]	2101	[illegible]	2050	[illegible]	2216	2218	2230
OCT	[illegible]	[illegible]	[illegible]	[illegible]	.16	.23	.30	.38	[illegible]	.51	[illegible]	.69
DATE	17	17	[illegible]	[illegible]	[illegible]	17	17	[illegible]	[illegible]	17	[illegible]	17
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1655	1655	[illegible]	1723	1723	[illegible]	[illegible]	1723
NOV	[illegible]	[illegible]	[illegible]	.27	[illegible]	.27	[illegible]	[illegible]	[illegible]	.29	.29	.30
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10	10	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	0933	0933	[illegible]	0933	[illegible]	0933	[illegible]	[illegible]
DEC	[illegible]	[illegible]	[illegible]	.11	[illegible]	[illegible]	[illegible]	.24	.27	.28	.31	.33
DATE	[illegible]	[illegible]	[illegible]	15	15	[illegible]	[illegible]	[illegible]	15	[illegible]	15	[illegible]
TIME	[illegible]	[illegible]	[illegible]	1755	1805	[illegible]	[illegible]	1855	1915	1935	[illegible]	2035
YEAR	[illegible]	[illegible]	.90	1.04	[illegible]	1.60	2.07	2.12	2.12	2.12	2.14	[illegible]
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

COLUMBUS, OHIO

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	.08	[illegible]	[illegible]	.13	[illegible]	[illegible]	.21	[illegible]	.22	.23
DATE	[illegible]	[illegible]	[illegible]	[illegible]	10	[illegible]	[illegible]	10	[illegible]	10	10	[illegible]
TIME	[illegible]	[illegible]	[illegible]	1220	[illegible]	0555	[illegible]	[illegible]	0600	[illegible]	0645	[illegible]
FEB	[illegible]	[illegible]	[illegible]	[illegible]	.33	[illegible]	[illegible]	.54	.62	[illegible]	.76	.82
DATE	[illegible]	[illegible]	23	[illegible]	23	23	23	23	[illegible]	[illegible]	[illegible]	23
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1630	[illegible]	1630	1630	[illegible]
MAR	.05	[illegible]	[illegible]	.11	.18	.24	.28	.34	.41	[illegible]	[illegible]	.74
DATE	[illegible]	12	[illegible]	[illegible]	12	[illegible]	12	[illegible]	12	[illegible]	[illegible]	12
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0300	[illegible]	0335	0405	[illegible]
APR	.16	[illegible]	[illegible]	.25	[illegible]	.29	[illegible]	.42	.45	[illegible]	.49	.49
DATE	[illegible]	25	25	[illegible]	[illegible]	25	[illegible]	25	25	[illegible]	25	[illegible]
TIME	1120	[illegible]	[illegible]	[illegible]	1135	[illegible]	[illegible]	[illegible]	1205	[illegible]	1300	1300
MAY	[illegible]	[illegible]	[illegible]	.51	[illegible]	[illegible]	.98	1.01	1.13	1.24	1.38	1.43
DATE	31	[illegible]	[illegible]	31	31	31	31	[illegible]	31	[illegible]	31	31
TIME	[illegible]	[illegible]	[illegible]	1730	1735	[illegible]	1800	[illegible]	[illegible]	[illegible]	1800	1900
JUN	[illegible]	[illegible]	.40	[illegible]	[illegible]	[illegible]	.48	.54	.61	[illegible]	.65	.65
DATE	[illegible]	17	17	17	[illegible]	17	[illegible]	[illegible]	[illegible]	[illegible]	06	06
TIME	2205	[illegible]	[illegible]	[illegible]	1710	1720	2300	2315	[illegible]	2355	0025	0025
JUL	[illegible]	[illegible]	[illegible]	[illegible]	.54	.55	[illegible]	.55	.55	[illegible]	[illegible]	.55
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	03	03	[illegible]	03	03	[illegible]	[illegible]
TIME	1605	[illegible]	[illegible]	[illegible]	2100	2142	2142	2142	[illegible]	[illegible]	[illegible]	[illegible]
AUG	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.51	.53	.55	.58	.60	.60
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	03	[illegible]	03	[illegible]	03	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1650	[illegible]	1725	1745	1805	1830	1830
SEP	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.72	.72	[illegible]	[illegible]	[illegible]	.76
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11	11	11	11	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	1921	[illegible]	0800	0800	0842	0900	0955	[illegible]	1100
OCT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.14	.20	.28	[illegible]	.36	.46	.52
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17	17	[illegible]	17
TIME	[illegible]	[illegible]	[illegible]	1430	1440	[illegible]	1200	1215	1215	[illegible]	[illegible]	1330
NOV	[illegible]	.07	.08	.08	[illegible]	[illegible]	.14	[illegible]	.14	[illegible]	.14	.18
DATE	[illegible]	[illegible]	10	[illegible]	10	10	10	[illegible]	[illegible]	[illegible]	10	10
TIME	1250	0750	[illegible]	[illegible]	[illegible]	[illegible]	0815	0815	0815	0815	0815	[illegible]
DEC	.05	[illegible]	[illegible]	.07	.11	.15	.20	.25	.26	[illegible]	.34	.39
DATE	[illegible]	[illegible]	[illegible]	15	[illegible]	15	[illegible]	15	[illegible]	15	[illegible]	[illegible]
TIME	0615	[illegible]	[illegible]	0645	1200	[illegible]	1215	1245	1245	1245	1245	1245
YEAR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.88	.98	[illegible]	1.13	1.24	[illegible]	1.43
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	05	[illegible]	[illegible]	[illegible]	05	05	05

TOLEDO, OHIO

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	.10	[illegible]	[illegible]	.15	.17	[illegible]	.26	.31	[illegible]	[illegible]	.37
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	08	[illegible]	[illegible]	08
TIME	[illegible]	[illegible]	[illegible]	0523	0115	1644	[illegible]	1700	[illegible]	[illegible]	1700	1708
FEB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.45	[illegible]	.52	.54	.55
DATE	[illegible]	[illegible]	23	[illegible]	[illegible]	23	23	[illegible]	[illegible]	23	[illegible]	[illegible]
TIME	[illegible]	2330	[illegible]	2330	[illegible]	2345	[illegible]	[illegible]	2340	2355	0012	0030
MAR	[illegible]	.14	.17	[illegible]	[illegible]	[illegible]	[illegible]	.27	[illegible]	[illegible]	.33	.37
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	09
TIME	0001	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0030	0102	0128	[illegible]	0127	0145
APR	[illegible]	.20	[illegible]	[illegible]	.34	[illegible]	.54	.56	.61	.62	.65	[illegible]
DATE	30	30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18	18	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1316	1320	1338	1355	1420	[illegible]
MAY	.25	[illegible]	.42	.53	[illegible]	[illegible]	.78	.81	.82	.82	.82	.82
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	20	[illegible]	[illegible]	[illegible]	20	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1910	1930	[illegible]	[illegible]	1930
JUN	[illegible]	[illegible]	[illegible]	[illegible]	.52	.58	[illegible]	[illegible]	[illegible]	.78	.78	.79
DATE	[illegible]	[illegible]	14	14	14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14	14
TIME	[illegible]	2024	[illegible]	2035	2045	2100	[illegible]	2130	[illegible]	[illegible]	2300	2315
JUL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.04	1.05	1.08	1.09	1.10	[illegible]
DATE	03	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	03	[illegible]	[illegible]	03	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1430	[illegible]	[illegible]	2052	[illegible]	[illegible]	2208
AUG	.18	[illegible]	.45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.15	[illegible]	1.17	1.18
DATE	21	[illegible]	[illegible]	[illegible]	21	[illegible]	21	[illegible]	[illegible]	[illegible]	21	22
TIME	2147	[illegible]	[illegible]	2147	[illegible]	2204	2223	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SEP	.20	[illegible]	.33	.35	.47	.59	.72	[illegible]	.84	[illegible]	[illegible]	1.02
DATE	[illegible]	11	11	[illegible]	11	11	11	11	[illegible]	[illegible]	11	11
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1710	1710	1715	[illegible]	[illegible]	1708	1710
OCT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.53	[illegible]	.57	.58	[illegible]	.58
DATE	[illegible]	[illegible]	[illegible]	01	[illegible]	01	[illegible]	01	[illegible]	01	[illegible]	[illegible]
TIME	[illegible]	[illegible]	0535	0535	0535	[illegible]	[illegible]	[illegible]	0615	[illegible]	[illegible]	[illegible]
NOV	.06	[illegible]	[illegible]	[illegible]	[illegible]	.17	.25	.28	[illegible]	[illegible]	.36	[illegible]
DATE	[illegible]	[illegible]	[illegible]	02	29	[illegible]	29	[illegible]	29	29	[illegible]	[illegible]
TIME	[illegible]	[illegible]	2105	2110	[illegible]	1145	1200	[illegible]	1235	1243	1245	1235
DEC	[illegible]	[illegible]	[illegible]	.36	.47	.52	.59	.69	[illegible]	.86	.94	[illegible]
DATE	[illegible]	15+	[illegible]	[illegible]	15+	15+	15+	15+	[illegible]	15+	[illegible]	15+
TIME	0035	[illegible]	[illegible]	[illegible]	0058	[illegible]	[illegible]	0145	[illegible]	0225	0255	0325
YEAR	[illegible]	[illegible]	[illegible]	.91	[illegible]	[illegible]	1.13	1.14	1.15	1.16	1.17	1.18
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	07	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

CINCINNATI, OHIO ABGE

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.15	[illegible]	[illegible]	.25	.28	.31	.32	[illegible]	.38	.40	.45	.48
DATE	[illegible]	[illegible]	[illegible]	[illegible]	10	10	[illegible]	10	10	[illegible]	10	[illegible]
TIME	1827	1832	[illegible]	1837	1848	1900	1900	1915	1930	1945	2015	2030
FEB	.08	.11	[illegible]	.14	.18	.29	.33	.42	.48	[illegible]	.62	.70
DATE	[illegible]	[illegible]	23	23	[illegible]	23	[illegible]	23	23	23	23	[illegible]
TIME	1628	[illegible]	[illegible]	1630	[illegible]	1655	1658	1358	1400	1425	[illegible]	1630
MAR	[illegible]	.29	.37	.40	.50	[illegible]	.73	.77	.77	[illegible]	[illegible]	[illegible]
DATE	23	23	23	[illegible]	[illegible]	[illegible]	[illegible]	23	23	23	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	2245	2300	2300	2300	[illegible]	2302	[illegible]	2302	2302
APR	M	M	M	M	M	M	M	M	M	M	M	M
DATE												
TIME												
MAY	.12	.23	.23	.24	.24	.27	.31	.43	.48	.56	.69	.77
DATE	[illegible]	01	[illegible]	[illegible]	[illegible]	31	31	31	[illegible]	[illegible]	31	[illegible]
TIME	[illegible]	0320	[illegible]	0325	0325	1630	1645	1700	1720	[illegible]	1710	1740
JUN	.17	[illegible]	[illegible]	.48	[illegible]	[illegible]	.92	.94	1.00	1.00	1.00	1.00
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	05	05	05	05	05	[illegible]	05
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1355	1400	1412	[illegible]	[illegible]	1455	1455	1455
JUL	.20	.24	.25	.26	.30	[illegible]	.35	.45	.45	.45	[illegible]	[illegible]
DATE	04	[illegible]	04	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	04	04	04	04
TIME	1540	1543	1545	[illegible]	1540	1607	1622	1637	1637	1637	1637	1637
AUG	.23	[illegible]	.55	.75	[illegible]	1.23	[illegible]	1.24	1.25	1.25	1.25	[illegible]
DATE	[illegible]	15	[illegible]	15	[illegible]	[illegible]	[illegible]	[illegible]	15	15	15	15
TIME	1740	[illegible]	[illegible]	[illegible]	1805	[illegible]	1835	[illegible]	1900	[illegible]	1900	1900
SEP	[illegible]	[illegible]	.38	.41	[illegible]	.50	.57	.65	.75	.85	1.03	1.12
DATE	[illegible]	11	[illegible]	[illegible]	11	11	[illegible]	[illegible]	[illegible]	[illegible]	11	[illegible]
TIME	[illegible]	[illegible]	[illegible]	1908	1820	[illegible]	1820	1820	1820	1820	1820	1820
OCT	.07	[illegible]	.18	.22	.27	.28	.31	.41	.50	.58	.72	.79
DATE	17	17	17	17	[illegible]	17	17	[illegible]	17	[illegible]	17	17
TIME	1055	1105	1110	1115	[illegible]	1130	[illegible]	1115	1115	1115	1115	[illegible]
NOV	.08	.10	[illegible]	.15	[illegible]	[illegible]	.24	[illegible]	.30	[illegible]	.36	.41
DATE	[illegible]	[illegible]	09	[illegible]	09	09	09	09	09	[illegible]	[illegible]	30
TIME	[illegible]	0423	1830	[illegible]	1845	[illegible]	1908	1930	[illegible]	2006	2036	2100
DEC	[illegible]	[illegible]	.15	.19	.21	[illegible]	.23	.25	[illegible]	.31	.38	.43
DATE	15	[illegible]	[illegible]	15	15	15	15	15	[illegible]	15	[illegible]	15
TIME	0550	0555	[illegible]	0605	0615	[illegible]	0645	[illegible]	0725	0745	0815	[illegible]
YEAR	.27	[illegible]	[illegible]	.75	[illegible]	1.23	1.24	1.24	1.25	1.25	[illegible]	1.25
MONTH	[illegible]	08	[illegible]	[illegible]	[illegible]	[illegible]	08	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

DAYTON, OHIO

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.07	[illegible]	[illegible]	.17	[illegible]	.29	.31	.33	[illegible]	.34	.37	.37
DATE	28	28	[illegible]	[illegible]	[illegible]	[illegible]	28	28	[illegible]	28	28	28
TIME	2135	[illegible]	[illegible]	2150	[illegible]	2145	[illegible]	2150	2150	2230	[illegible]	2315
FEB	.13	[illegible]	[illegible]	[illegible]	.35	.37	.44	[illegible]	.58	[illegible]	.72	.77
DATE	[illegible]	23	23	[illegible]	[illegible]	[illegible]	23	23	23	[illegible]	23	[illegible]
TIME	0053	[illegible]	[illegible]	0053	0053	0053	1805	[illegible]	1812	1812	1840	1910
MAR	.06	.08	[illegible]	.13	.15	.21	.25	.28	.32	.35	.39	.45
DATE	[illegible]	07	[illegible]	07	[illegible]	12	12	12	12	12	12	[illegible]
TIME	0618	[illegible]	0113	[illegible]	0633	[illegible]	0130	0140	[illegible]	0225	0255	[illegible]
APR	.12	[illegible]	.25	.27	.36	.42	.50	.63	.69	.75	.89	.98
DATE	25	25	23	25	25	25	25	25	25	25	25	25
TIME	[illegible]	[illegible]	1325	0950	1000	1000	1000	1000	1010	1050	1105	[illegible]
MAY	.11	[illegible]	.25	.31	.44	.44	.44	.44	.44	.44	.44	.44
DATE	01	[illegible]	[illegible]	[illegible]	01	01	01	[illegible]	[illegible]	01	01	01
TIME	0430	0430	[illegible]	[illegible]	[illegible]	0430	0430	0430	[illegible]	[illegible]	0430	0430
JUN	.40	[illegible]	.45	[illegible]	.45	[illegible]	.45	.45	.45	[illegible]	.45	.45
DATE	[illegible]	17	[illegible]	[illegible]	17	[illegible]	17	17	17	17	17	17
TIME	1020	[illegible]	1025	[illegible]	1042	1057	[illegible]	1105	1105	[illegible]	1105	1105
JUL	.35	[illegible]	[illegible]	.75	[illegible]	1.31	[illegible]	1.34	1.35	1.35	1.35	1.35
DATE	[illegible]	06	[illegible]	[illegible]	06	[illegible]	[illegible]	06	[illegible]	[illegible]	06	[illegible]
TIME	1846	2242	[illegible]	2244	[illegible]	[illegible]	2313	2330	2345	2345	[illegible]	2345
AUG	.45	.64	.65	.65	[illegible]	[illegible]	[illegible]	.77	.77	.77	.77	.83
DATE	02	[illegible]	02	[illegible]	[illegible]	[illegible]	[illegible]	15	15	[illegible]	15	29
TIME	[illegible]	1750	1755	1800	1812	[illegible]	1830	[illegible]	0505	0505	0505	[illegible]
SEP	.16	[illegible]	.25	.29	.31	.33	[illegible]	.33	[illegible]	.40	.46	.49
DATE	[illegible]	[illegible]	11	[illegible]	11	11	[illegible]	11	[illegible]	[illegible]	[illegible]	[illegible]
TIME	1900	[illegible]	[illegible]	[illegible]	2348	[illegible]	2348	2348	0835	[illegible]	0930	[illegible]
OCT	.05	[illegible]	.08	[illegible]	.12	.17	.22	.28	[illegible]	.41	[illegible]	.48
DATE	[illegible]	[illegible]	17	[illegible]	17	[illegible]	17	17	17	17	17	17
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1244	1244	1244	1244	1244	1244	[illegible]	1245
NOV	[illegible]	.10	.12	[illegible]	.20	.22	.23	.24	.25	.29	.34	.34
DATE	[illegible]	[illegible]	[illegible]	10	10	[illegible]	10	10	[illegible]	[illegible]	10	10
TIME	0615	0616	0615	[illegible]	[illegible]	[illegible]	0640	[illegible]	[illegible]	0640	[illegible]	0640
DEC	.12	.17	[illegible]	[illegible]	[illegible]	.48	.52	.56	.62	.68	.75	.80
DATE	15	15	[illegible]	[illegible]	15	15	[illegible]	15	15	[illegible]	15	15
TIME	0455	[illegible]	[illegible]	0450	0500	0515	0530	0550	0610	0630	0700	0730
YEAR	.45	.64	.65	.75	1.05	1.31	1.33	1.34	[illegible]	1.35	1.35	1.35
MONTH	[illegible]	[illegible]	[illegible]	07	[illegible]	[illegible]	[illegible]	[illegible]	07	07	[illegible]	07

YOUNGSTOWN, OHIO

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	.09	[illegible]	.17	[illegible]	.31	.37	.45	.52	[illegible]	.65
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	08	[illegible]	[illegible]	[illegible]	08	[illegible]	08
TIME	[illegible]	[illegible]	[illegible]	0616	[illegible]	[illegible]	[illegible]	0630	0650	0710	0740	[illegible]
FEB	.03	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.18	[illegible]	.25	.27	.32	.34
DATE	[illegible]	23	[illegible]	[illegible]	23	23	23	[illegible]	23	[illegible]	23	23
TIME	1814	[illegible]	[illegible]	[illegible]	1814	1814	1814	1844	1900	1908	1940	[illegible]
MAR	[illegible]	[illegible]	.08	[illegible]	.15	.18	[illegible]	.23	.25	[illegible]	[illegible]	.26
DATE	[illegible]	07	[illegible]	[illegible]	07	07	[illegible]	[illegible]	[illegible]	[illegible]	07	07
TIME	[illegible]	[illegible]	[illegible]	[illegible]	0600	0600	0600	0620	0640	[illegible]	0715	0745
APR	[illegible]	.12	[illegible]	[illegible]	[illegible]	.27	[illegible]	.31	.32	.36	.36	[illegible]
DATE	[illegible]	18	[illegible]	[illegible]	[illegible]	18	[illegible]	18	[illegible]	[illegible]	[illegible]	18
TIME	1457	[illegible]	1507	1506	1506	1506	1509	1529	1549	[illegible]	1609	1609
MAY	[illegible]	[illegible]	[illegible]	1.02	1.18	1.24	1.25	1.26	1.27	1.28	1.29	1.29
DATE	21	21	[illegible]	[illegible]	[illegible]	21	21	21	21	21	21	21
TIME	[illegible]	[illegible]	1733	[illegible]	[illegible]	[illegible]	[illegible]	1838	1858	1918	1948	2018
JUN	.23	[illegible]	.33	.33	.33	[illegible]	.33	.34	.40	[illegible]	[illegible]	.45
DATE	[illegible]	19	19	19	[illegible]	[illegible]	19	05	05	[illegible]	[illegible]	05
TIME	1710	1715	[illegible]	[illegible]	[illegible]	1729	1729	1058	1118	1138	1138	[illegible]
JUL	[illegible]	.49	[illegible]	[illegible]	.63	[illegible]	.80	.80	[illegible]	.80	.80	.80
DATE	10	10	[illegible]	[illegible]	24	[illegible]	24	24	24	24	24	24
TIME	1258	[illegible]	[illegible]	[illegible]	1500	[illegible]	1517	[illegible]	[illegible]	1517	1517	[illegible]
AUG	[illegible]	[illegible]	[illegible]	[illegible]	.72	.89	.89	.89	[illegible]	[illegible]	.89	.89
DATE	[illegible]	[illegible]	13	13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11
TIME	[illegible]	1813	[illegible]	[illegible]	0520	[illegible]	0520	0520	0520	[illegible]	0520	0520
SEP	.15	[illegible]	.31	.34	.35	.36	.36	[illegible]	.41	[illegible]	.68	.69
DATE	05	05	[illegible]	[illegible]	[illegible]	[illegible]	05	[illegible]	11	[illegible]	[illegible]	11
TIME	[illegible]	1954	[illegible]	[illegible]	[illegible]	[illegible]	2044	2205	[illegible]	2245	[illegible]	[illegible]
OCT	[illegible]	[illegible]	.09	.12	[illegible]	[illegible]	.30	.38	.45	[illegible]	.65	.77
DATE	[illegible]	[illegible]	17	[illegible]	17	[illegible]	17	17	[illegible]	[illegible]	17	[illegible]
TIME	[illegible]	1710	[illegible]	1720	1730	1745	1800	[illegible]	1840	1900	[illegible]	2000
NOV	[illegible]	[illegible]	[illegible]	[illegible]	.14	.15	.17	.23	[illegible]	.31	.32	.33
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10	[illegible]	29	10	[illegible]	10	[illegible]
TIME	[illegible]	0510	0515	0634	0643	[illegible]	1620	1640	0640	0715	0745	[illegible]
DEC	[illegible]	[illegible]	[illegible]	[illegible]	.10	.12	[illegible]	[illegible]	.19	.22	.27	.30
DATE	[illegible]	[illegible]	[illegible]	15	15	[illegible]	[illegible]	15	15	15	[illegible]	[illegible]
TIME	[illegible]	[illegible]	1000	1000	1000	[illegible]	1000	1000	1000	1000	[illegible]	1000
YEAR	[illegible]	[illegible]	[illegible]	1.02	[illegible]	1.24	1.25	[illegible]	1.27	[illegible]	1.29	[illegible]
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	05	[illegible]	05	[illegible]	[illegible]	05	05	[illegible]

CLEVELAND, OHIO

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	.08	[illegible]	[illegible]	.15	.20	.22	.25	.30	.38	.43	.48
DATE	29	29	29	29	29	29	[illegible]	08	08	08	08	08
TIME	[illegible]	[illegible]	0105	0100	[illegible]	0115	0130	[illegible]	0450	0515	[illegible]	0600
FEB	[illegible]	[illegible]	.08	.09	.13	.18	.22	[illegible]	.31	.35	.42	.44
DATE	24	24	24	23	23	23	23	23	[illegible]	23	23	23
TIME	[illegible]	0035	[illegible]	2213	2215	2217	2230	[illegible]	2138	2200	2230	2252
MAR	[illegible]	[illegible]	.13	.16	.23	.29	.35	.39	.39	.39	.40	.41
DATE	24	07	07	07	07	07	07	07	07	07	[illegible]	07
TIME	0435	[illegible]	[illegible]	0430	0435	0435	0445	0500	[illegible]	0500	0610	0615
APR	.07	.10	[illegible]	.11	.11	.13	[illegible]	.15	.15	.15	.15	.16
DATE	18	02	[illegible]	02	02	18	18	18	18	18	24	[illegible]
TIME	[illegible]	0145	[illegible]	0145	[illegible]	[illegible]	0230	[illegible]	0300	0300	0430	0430
MAY	[illegible]	[illegible]	.43	.44	.53	.70	.78	.84	.90	.97	1.18	1.27
DATE	21	21	[illegible]	21	21	21	21	21	21	21	21	21
TIME	1515	[illegible]	[illegible]	[illegible]	1523	1545	[illegible]	1620	1630	1700	1720	1735
JUN	.30	.54	[illegible]	.75	.90	1.00	1.05	1.06	1.06	1.06	1.06	[illegible]
DATE	22	22	[illegible]	[illegible]	[illegible]	22	22	[illegible]	[illegible]	22	[illegible]	22
TIME	[illegible]	1646	[illegible]	[illegible]	1650	1700	[illegible]	1735	1735	1735	1735	1735
JUL	[illegible]	.44	.46	[illegible]	.65	.74	.86	.91	.94	.95	.96	.96
DATE	19	[illegible]	19	19	19	[illegible]	19	19	19	19	19	[illegible]
TIME	1405	1405	1405	1405	1415	1430	1445	1505	[illegible]	1545	1600	1631
AUG	.46	[illegible]	[illegible]	.92	1.12	1.34	1.44	1.51	1.60	1.61	1.89	1.93
DATE	31	31	31	24	[illegible]	31	31	31	24	24	24	24
TIME	1825	1824	[illegible]	[illegible]	1844	1843	1857	1910	1707	1712	1725	1755
SEP	.10	.14	.15	.17	.22	.24	.25	.26	.27	.28	.32	.35
DATE	[illegible]	19	19	24	19	19	19	20	20	18	18	18
TIME	[illegible]	2330	[illegible]	0355	2330	2345	2355	0005	0025	[illegible]	0900	0900
OCT	[illegible]	.25	.25	.25	[illegible]	.29	.29	.31	.32	.33	.35	.40
DATE	[illegible]	15	[illegible]	15	[illegible]	15	15	15	[illegible]	08	08	08
TIME	1623	[illegible]	[illegible]	1628	1648	[illegible]	[illegible]	1738	1758	2020	2050	2145
NOV	[illegible]	.15	.16	[illegible]	.16	.18	.19	.23	.24	.25	.26	.27
DATE	30	[illegible]	30	30	30	30	30	30	30	30	30	30
TIME	1720	1725	1730	1730	1730	1730	1730	1730	1730	1730	1730	1730
DEC	[illegible]	.09	.10	.13	.19	.21	.23	.25	.29	.31	.35	.39
DATE	[illegible]	15	[illegible]	[illegible]	06	06	06	06	[illegible]	06	06	06
TIME	[illegible]	0439	0815	[illegible]	[illegible]	0830	[illegible]	0900	0930	0930	1000	1000
YEAR	[illegible]	[illegible]	[illegible]	.92	1.12	[illegible]	1.44	1.51	1.60	1.61	1.89	1.93
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	08	08	08	[illegible]	08	08	08

MANSFIELD, OHIO

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.10	.14	.15	.16	.17	.21	.24	.32	[illegible]	.41	.46	.52
DATE	29	29	[illegible]	29	29	[illegible]	08	08	08	05	08	08
TIME	0243	0243	[illegible]	0243	0243	[illegible]	0507	0507	0507	0507	0507	0507
FEB	[illegible]	.09	.11	.12	.16	.21	.25	.37	.41	.44	.51	.59
DATE	23	23	23	23	23	23	23	23	23	23	23	23
TIME	2130	2130	[illegible]	2130	2130	2130	0300	0300	0300	0300	[illegible]	0300
MAR	.06	[illegible]	.11	.12	.20	.25	.34	.40	.41	.42	.43	.44
DATE	07	[illegible]	07	07	07	07	07	07	07	07	07	07
TIME	0545	0545	0545	0545	0545	0545	0545	0545	0545	0545	0545	0545
APR	.20	[illegible]	.26	.28	.28	.28	.28	.28	.28	.28	.33	.34
DATE	03	03	03	03	03	03	03	03	03	03	24	24
TIME	0055	0055	[illegible]	0055	0055	0055	0055	0055	0055	0055	0430	0430
MAY	.34	.38	.43	.45	.49	.71	.71	.95	.96	.96	.96	.96
DATE	[illegible]	20	[illegible]	25	25	25	25	25	25	25	25	25
TIME	0615	[illegible]	[illegible]	2150	2150	2150	2150	[illegible]	2150	2150	[illegible]	2150
JUN	.15	[illegible]	.25	.27	.30	.38	.46	.52	[illegible]	[illegible]	.56	.56
DATE	05	05	05	05	05	05	05	05	05	05	05	05
TIME	0814	0855	[illegible]	0905	0915	0930	0905	0930	0950	1010	1040	1110
JUL	.09	.11	[illegible]	.16	.18	.18	[illegible]	.21	.22	[illegible]	.40	.41
DATE	[illegible]	13	13	13	13	13	13	13	[illegible]	[illegible]	13	13
TIME	1835	[illegible]	1845	[illegible]	[illegible]	1920	[illegible]	1735	1755	1904	1825	1915
AUG	[illegible]	.61	[illegible]	.62	.76	.85	.96	1.08	1.08	1.08	1.08	1.08
DATE	[illegible]	26	26	26	31	31	31	31	31	31	31	31
TIME	1120	1130	1135	[illegible]	0200	0215	0230	[illegible]	0310	0330	0400	0430
SEP	.32	.34	.36	[illegible]	.36	.38	.38	.39	.41	.45	.52	.57
DATE	[illegible]	05	[illegible]	05	05	[illegible]	05	24	24	24	24	24
TIME	2030	2035	2040	2045	2055	[illegible]	2125	0135	0155	0215	[illegible]	0315
OCT	[illegible]	[illegible]	.09	.09	.13	[illegible]	.22	.28	.36	[illegible]	[illegible]	.61
DATE	[illegible]	15	15	15	17	17	17	[illegible]	17	17	17	17
TIME	[illegible]	1510	1515	1520	1530	1545	1600	[illegible]	1540	1600	1630	1700
NOV	.04	[illegible]	.08	[illegible]	.12	.13	.14	.19	[illegible]	.23	.26	.28
DATE	30	30	30	30	30	30	30	30	30	30	30	30
TIME	1650	[illegible]	[illegible]	1650	1650	1650	1650	1650	1650	1650	1650	1650
DEC	[illegible]	.07	.10	[illegible]	[illegible]	[illegible]	[illegible]	.30	.33	.38	.40	.44
DATE	[illegible]	15	15	15	15	15	15	15	15	15	15	15
TIME	0440	[illegible]	[illegible]	[illegible]	0505	0520	[illegible]	0555	0615	0635	0705	0735
YEAR	.34	.61	.61	.62	.76	.85	.96	1.08	1.08	1.08	1.08	1.08
MONTH	05	08	[illegible]	08	08	08	08	08	[illegible]	08	[illegible]	08

OKLAHOMA CITY, OKLAHOMA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	.11	.12	[illegible]	.22	.33	.38	.42	.45	.54	[illegible]	.77
DATE	[illegible]	[illegible]	30	[illegible]	30	30	30	30	30	[illegible]	[illegible]	30
TIME	1450	[illegible]	[illegible]	1836	1846	1901	1921	1936	1956	2015	2045	2115
FEB	.06	.12	.14	.18	.21	.23	.27	.28	.32	.32	.33	.35
DATE	[illegible]	22	22	[illegible]	22	22	22	22	22	22	22	22
TIME	[illegible]	0333	[illegible]	[illegible]	0335	0335	0340	0345	0345	[illegible]	[illegible]	[illegible]
MAR	[illegible]	[illegible]	[illegible]	.17	.19	.25	.28	.30	.38	.38	.43	[illegible]
DATE	09	09	09	[illegible]	[illegible]	27	27	27	09	09	09	[illegible]
TIME	1033	[illegible]	1043	1048	[illegible]	0605	0620	0640	[illegible]	1228	1258	1328
APR	.16	[illegible]	.22	.33	.39	.41	.47	.52	[illegible]	.56	.58	.58
DATE	[illegible]	17	07	07	[illegible]	07	07	07	07	07	07	07
TIME	1012	[illegible]	[illegible]	[illegible]	1943	1945	2004	2021	2021	2021	2021	[illegible]
MAY	.48	[illegible]	1.03	1.05	1.06	1.08	1.22	1.35	1.40	1.50	1.65	1.74
DATE	[illegible]	[illegible]	[illegible]	[illegible]	29	29	22	[illegible]	[illegible]	22	22	22
TIME	1853	1858	[illegible]	[illegible]	[illegible]	1902	1900	1910	1933	2000	[illegible]	2100
JUN	.25	[illegible]	[illegible]	[illegible]	1.00	[illegible]	1.11	1.12	1.12	1.22	1.56	1.71
DATE	17	17	17	17	17	[illegible]	17	17	[illegible]	17	17	17
TIME	0110	[illegible]	[illegible]	[illegible]	0114	0112	0123	0143	[illegible]	[illegible]	0312	0325
JUL	[illegible]	.74	.88	[illegible]	[illegible]	1.84	2.00	2.02	2.02	2.02	2.02	2.02
DATE	28	29	29	29	29	29	29	29	29	29	29	29
TIME	0504	[illegible]	1208	1210	1218	1233	1246	1316	1316	1316	1316	1316
AUG	.12	[illegible]	[illegible]	.17	.19	.21	.23	.25	.25	.25	.25	.25
DATE	15	15	[illegible]	[illegible]	[illegible]	15	15	15	15	15	15	[illegible]
TIME	0422	0427	[illegible]	0437	[illegible]	0502	0522	0530	0530	[illegible]	[illegible]	[illegible]
SEP	.13	[illegible]	.20	[illegible]	.35	.44	.46	.54	[illegible]	.57	.62	.65
DATE	[illegible]	05	[illegible]	[illegible]	11	11	11	[illegible]	[illegible]	11	[illegible]	11
TIME	[illegible]	1554	[illegible]	1555	1755	1757	1815	1820	1840	1900	1930	2025
OCT	.07	.11	.15	.19	.22	.25	.27	.33	.35	.39	.43	.46
DATE	14	15	[illegible]	15	15	15	14	14	15	15	[illegible]	15
TIME	[illegible]	[illegible]	0047	0050	[illegible]	0109	[illegible]	2328	0204	0224	[illegible]	0324
NOV	.07	.12	[illegible]	.19	.23	.26	.29	.30	.35	.39	.52	.57
DATE	[illegible]	[illegible]	[illegible]	19	19	19	19	19	05	19	19	19
TIME	[illegible]	1020	[illegible]	1020	1030	1045	1100	1110	0802	1201	1231	1250
DEC	.12	[illegible]	.18	[illegible]	.18	.18	.18	.18	.18	.18	.18	.18
DATE	[illegible]	[illegible]	05	05	[illegible]	[illegible]	05	05	[illegible]	05	[illegible]	05
TIME	0310	0315	[illegible]	0325	0335	0350	0405	0425	[illegible]	0505	[illegible]	0605
YEAR	.48	[illegible]	[illegible]	1.25	[illegible]	[illegible]	2.00	2.02	2.02	2.02	[illegible]	2.02
MONTH	[illegible]	[illegible]	[illegible]	07	[illegible]	[illegible]	[illegible]	[illegible]	07	07	[illegible]	07

MAXIMUM SHORT DURATION PRECIPITATION

[illegible]												
JAN	[illegible]	[illegible]	[illegible]	.21	[illegible]	[illegible]	[illegible]	.63	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	30	30	30	[illegible]	30	30	30	[illegible]	30	[illegible]	[illegible]
TIME	2002	2002	[illegible]	2002	[illegible]	2002	[illegible]	2015	2035	[illegible]	[illegible]	[illegible]
FEB	[illegible]	[illegible]	[illegible]	.13	.18	[illegible]	[illegible]	[illegible]	[illegible]	.55	[illegible]	.80
DATE	[illegible]	[illegible]	16	[illegible]	16	16	[illegible]	22	22	[illegible]	[illegible]	22
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0910	0600	0620	0640	0700	[illegible]	0800
MAR	[illegible]	[illegible]	[illegible]	[illegible]	1.01	[illegible]	[illegible]	[illegible]	1.43	1.50	1.65	1.77
DATE	[illegible]	[illegible]	27	[illegible]	27	[illegible]	27	27	27	[illegible]	27	27
TIME	[illegible]	[illegible]	0715	[illegible]	0720	0735	0750	0810	0830	0850	0920	[illegible]
APR	[illegible]	[illegible]	.18	.20	[illegible]	.39	[illegible]	.51	[illegible]	[illegible]	[illegible]	.75
DATE	[illegible]	07	[illegible]	07	07	07	07	07	07	07	[illegible]	07
TIME	[illegible]	[illegible]	[illegible]	[illegible]	0628	[illegible]	[illegible]	[illegible]	0738	[illegible]	[illegible]	2330
MAY	[illegible]	[illegible]	.35	[illegible]	[illegible]	1.35	[illegible]	1.75	1.85	2.01	[illegible]	2.57
DATE	[illegible]	[illegible]	13	[illegible]	[illegible]	13	[illegible]	13	[illegible]	13	[illegible]	13
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1955	[illegible]	2035	2055	[illegible]	[illegible]
JUN	[illegible]	[illegible]	[illegible]	1.08	1.14	[illegible]	1.33	1.38	1.38	[illegible]	1.40	1.40
DATE	[illegible]	[illegible]	[illegible]	06	[illegible]	06	[illegible]	06	06	[illegible]	06	[illegible]
TIME	[illegible]	2139	[illegible]	2145	2150	[illegible]	2150	[illegible]	[illegible]	[illegible]	2315	[illegible]
JUL	[illegible]	.22	.31	.41	[illegible]	.61	.63	[illegible]	[illegible]	.90	[illegible]	1.00
DATE	14	[illegible]	24	24	24	24	24	[illegible]	[illegible]	[illegible]	24	24
TIME	[illegible]	0438	[illegible]	[illegible]	0508	0531	[illegible]	[illegible]	[illegible]	0638	[illegible]	0738
AUG	.19	[illegible]	.40	[illegible]	.45	[illegible]	[illegible]	.59	[illegible]	[illegible]	.83	[illegible]
DATE	[illegible]	[illegible]	[illegible]	14	14	14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	0505	[illegible]	[illegible]	[illegible]	0540	0001	0016	0440	0500	0530	[illegible]
SEP	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.57	[illegible]	.68	[illegible]	[illegible]	[illegible]	.82
DATE	[illegible]	[illegible]	[illegible]	11	11	11	11	[illegible]	12	[illegible]	12	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1750	[illegible]	1820	1840	0002	0022	[illegible]	2016
OCT	[illegible]	[illegible]	.18	.22	.27	.31	.36	[illegible]	.46	[illegible]	.77	1.00
DATE	[illegible]	[illegible]	[illegible]	15	[illegible]	15	15	[illegible]	[illegible]	15	15	[illegible]
TIME	[illegible]	[illegible]	0055	0100	[illegible]	0125	0140	[illegible]	0220	[illegible]	0220	[illegible]
NOV	[illegible]	[illegible]	[illegible]	.59	.87	[illegible]	[illegible]	[illegible]	[illegible]	.98	[illegible]	.98
DATE	[illegible]	[illegible]	29	[illegible]	[illegible]	[illegible]	29	[illegible]	[illegible]	29	29	29
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1905	1920	[illegible]	[illegible]	1950	2010	[illegible]	[illegible]
DEC	.31	.61	.65	[illegible]	[illegible]	.67	.68	.95	.96	[illegible]	[illegible]	.96
DATE	[illegible]	05	[illegible]	05	05	[illegible]	05	[illegible]	05	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	1745	[illegible]	[illegible]	1817	1801	[illegible]	[illegible]	1915	1945
YEAR	[illegible]	.93	[illegible]	1.08	[illegible]	1.35	1.58	1.75	1.85	2.01	2.30	2.57
MONTH	05	[illegible]	[illegible]	[illegible]	[illegible]	05	05	05	[illegible]	05	[illegible]	[illegible]
[illegible]												
JAN	[illegible]	[illegible]	[illegible]	[illegible]	.30	.34	.38	[illegible]	.59	.68	.75	[illegible]
DATE	[illegible]	05	[illegible]	[illegible]	03	03	[illegible]	25	[illegible]	[illegible]	25	25
TIME	[illegible]	[illegible]	[illegible]	1918	[illegible]	1926	1926	[illegible]	1251	1311	1341	1411
FEB	[illegible]	.11	.13	.15	.17	.20	.25	.31	.32	[illegible]	.40	.42
DATE	[illegible]	[illegible]	[illegible]	12	12	12	19	[illegible]	19	19	27	27
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1115	1117	1645	[illegible]	1725	[illegible]	1915	[illegible]
MAR	.06	.08	.10	[illegible]	.16	.21	.24	[illegible]	[illegible]	.37	[illegible]	[illegible]
DATE	[illegible]	07	07	07	[illegible]	07	17	[illegible]	[illegible]	21	21	21
TIME	[illegible]	2210	[illegible]	2220	[illegible]	[illegible]	1200	[illegible]	[illegible]	[illegible]	[illegible]	0900
APR	[illegible]	.08	[illegible]	.11	[illegible]	[illegible]	.20	[illegible]	.26	.27	[illegible]	.32
DATE	04	04	[illegible]	[illegible]	[illegible]	[illegible]	24	[illegible]	[illegible]	[illegible]	24	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1004	[illegible]	1004	[illegible]	1004
MAY	.10	.14	.15	[illegible]	.15	[illegible]	[illegible]	.24	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	10	[illegible]	[illegible]	[illegible]	[illegible]	02	[illegible]	02	03	03	[illegible]
TIME	1740	1745	[illegible]	[illegible]	1810	2256	[illegible]	[illegible]	[illegible]	[illegible]	0745	[illegible]
JUN	[illegible]	.07	[illegible]	[illegible]	.10	[illegible]	[illegible]	.24	.27	.32	.36	[illegible]
DATE	[illegible]	23	23	[illegible]	[illegible]	24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	1717	1722	1727	[illegible]	[illegible]	[illegible]	[illegible]	1002	1002	[illegible]	[illegible]
JUL	[illegible]	.08	.12	.15	.19	.27	.33	[illegible]	.39	.40	.40	[illegible]
DATE	01	01	01	[illegible]	[illegible]	01	01	[illegible]	[illegible]	[illegible]	01	[illegible]
TIME	0505	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0535	0540	[illegible]	[illegible]	[illegible]	[illegible]
AUG	[illegible]	.11	[illegible]	[illegible]	.16	.16	[illegible]	[illegible]	.29	.30	.33	.34
DATE	[illegible]	[illegible]	[illegible]	[illegible]	29	[illegible]	17	17	17	17	[illegible]	[illegible]
TIME	[illegible]	[illegible]	1248	1752	1302	[illegible]	1512	1530	1555	[illegible]	2210	[illegible]
SEP	[illegible]	[illegible]	T	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	T	[illegible]	[illegible]	[illegible]
DATE												
TIME												
OCT	.08	.10	.12	.14	.19	.23	.27	.34	[illegible]	[illegible]	.56	[illegible]
DATE	[illegible]	[illegible]	17	[illegible]	05	05	[illegible]	30	[illegible]	[illegible]	30	[illegible]
TIME	[illegible]	[illegible]	[illegible]	1655	1455	[illegible]	1525	[illegible]	0000	0040	0045	0115
NOV	.17	[illegible]	.22	.22	.22	[illegible]	.39	[illegible]	.45	[illegible]	[illegible]	[illegible]
DATE	07	07	07	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	30	[illegible]	[illegible]	[illegible]
TIME	[illegible]	0915	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1430	[illegible]	1950	2020	2050
DEC	[illegible]	.22	[illegible]	.30	.36	[illegible]	[illegible]	.67	.83	[illegible]	1.27*	1.49
DATE	[illegible]	[illegible]	[illegible]	[illegible]	04	[illegible]	04	04	04	04	[illegible]	04
TIME	[illegible]	[illegible]	[illegible]	[illegible]	0450	0450	0450	0450	[illegible]	0450	[illegible]	[illegible]
YEAR	.17	[illegible]	.27	.30	[illegible]	.42	[illegible]	[illegible]	.83	1.04	1.27*	1.49
MONTH	11	12	[illegible]	12	[illegible]	12	12	12	12	12	[illegible]	[illegible]
PENDE[illegible]												
JAN	.02	[illegible]	[illegible]	[illegible]	.06	.09	.12	[illegible]	[illegible]	[illegible]	.24	[illegible]
DATE	26	26	[illegible]	[illegible]	26	26	26	[illegible]	26	[illegible]	26	26
TIME	[illegible]	[illegible]	[illegible]	0445	0330	[illegible]	0445	0445	0445	0445	0545	[illegible]
FEB	.02	[illegible]	[illegible]	[illegible]	[illegible]	.12	[illegible]	.16	.16	[illegible]	[illegible]	.16
DATE	01	01	01	01	01	[illegible]	[illegible]	[illegible]	01	[illegible]	01	01
TIME	1855	[illegible]	1855	[illegible]	1855	1855	1910	1930	1930	[illegible]	1930	[illegible]
MAR	.02	[illegible]	[illegible]	.05	.06	.07	.08	.10	.10	.12	[illegible]	[illegible]
DATE	[illegible]	19	[illegible]	19	17	[illegible]	[illegible]	[illegible]	17	17	[illegible]	17
TIME	[illegible]	[illegible]	1225	[illegible]	[illegible]	1730	1708	[illegible]	1750	[illegible]	[illegible]	1902
APR	.03	[illegible]	.07	.07	[illegible]	[illegible]	.15	.18	[illegible]	.22	.24	.28
DATE	[illegible]	[illegible]	14	[illegible]	14	14	14	14	14	14	14	14
TIME	[illegible]	1431	1431	1431	[illegible]	[illegible]	1502	[illegible]	1515	1535	1405	1435
MAY	.02	[illegible]	[illegible]	.06	.06	[illegible]	[illegible]	[illegible]	.07	[illegible]	.09	.09
DATE	[illegible]	[illegible]	[illegible]	27	[illegible]	27	27	27	[illegible]	[illegible]	11	[illegible]
TIME	0420	0425	[illegible]	[illegible]	[illegible]	[illegible]	0430	0520	0520	[illegible]	0300	0300
JUN	.02	.04	[illegible]	[illegible]	[illegible]	.07	.08	[illegible]	.08	.08	[illegible]	[illegible]
DATE	02	[illegible]	02	[illegible]	[illegible]	02	02	[illegible]	[illegible]	02	[illegible]	[illegible]
TIME	0720	0729	[illegible]	0730	0730	[illegible]	0730	0750	[illegible]	0830	[illegible]	[illegible]
JUL	[illegible]	[illegible]	[illegible]	.05*	[illegible]	[illegible]	.06	.06	[illegible]	[illegible]	[illegible]	.06
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	08	[illegible]	[illegible]	29	[illegible]	29
TIME	2220	2229	[illegible]	[illegible]	2236	2251	2306	2326	2346	[illegible]	[illegible]	[illegible]
AUG	.03	.04	.05	.07	[illegible]	.10	.12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	23	[illegible]	[illegible]	[illegible]	23	[illegible]	[illegible]	23
TIME	[illegible]	[illegible]	[illegible]	0031	0031	0031	[illegible]	[illegible]	[illegible]	0145	[illegible]	[illegible]
SEP	[illegible]	.00	[illegible]	.00	.00	[illegible]	.00	.00	.00	.00	.00	.00
DATE												
TIME												
OCT	[illegible]	[illegible]	.06	.07	.11	.13	.17	[illegible]	[illegible]	[illegible]	.30	[illegible]
DATE	25	[illegible]	25	[illegible]	[illegible]	25	25	25	[illegible]	25	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	0957	[illegible]	0957	0957	0957	1005	1015	[illegible]
NOV	.01	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.06	.06	.07	.09	.11
DATE	[illegible]	10	10	10	[illegible]	10	[illegible]	[illegible]	10	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0901	[illegible]	[illegible]	0956	[illegible]	[illegible]	[illegible]
DEC	.12	.14	[illegible]	.17	.20	.23	.26	.26	.27	.27	.27	.27
DATE	[illegible]	26	[illegible]	26	26	[illegible]	26	[illegible]	[illegible]	26	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	1345	1355	1410	1425	1445	[illegible]	[illegible]	1555	[illegible]
YEAR	.28*	[illegible]	[illegible]	.65*	.66	[illegible]	[illegible]	.66	[illegible]	.66	[illegible]	.66
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	07	07	[illegible]	07	[illegible]	[illegible]

MAXIMUM SHORT DURATION PRECIPITATION

Maximum precipitation in inches (5 to 180 minutes)

SEXTON SUMMIT, OREGON

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	[illegible]	[illegible]	.22	.27	[illegible]	.42	.50	.55	.62	.69
DATE	[illegible]	[illegible]	[illegible]	[illegible]	25	25	25	25	25	25	[illegible]	25
TIME	[illegible]	2100	[illegible]	[illegible]	2100	2100	[illegible]	2130	[illegible]	2130	[illegible]	[illegible]
FEB	[illegible]	[illegible]	[illegible]	.09	.11	.15	[illegible]	.25	.27	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19	[illegible]	19	19	19	19	19
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0852	[illegible]	0852	0852	0852	1001	0852
MAR	.07	.12	.12	[illegible]	.19	[illegible]	[illegible]	.30	.37	.42	.50	.63
DATE	07	[illegible]	[illegible]	[illegible]	[illegible]	24	24	24	24	24	24	24
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2030	[illegible]	2110	[illegible]	[illegible]	2110
APR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.07	.08	[illegible]	[illegible]	[illegible]	[illegible]	.15
DATE	[illegible]	[illegible]	14	24	[illegible]	24	24	24	[illegible]	25	24	24
TIME	[illegible]	1248	1248	[illegible]	0455	[illegible]	[illegible]	1034	[illegible]	0450	1145	1215
MAY	[illegible]	[illegible]	.05	.06	.06	.08	.09	.09	.10	.11	.14	.16
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	03	[illegible]	[illegible]	[illegible]	03	[illegible]	03
TIME	[illegible]	[illegible]	[illegible]	0047	[illegible]	[illegible]	0130	0130	[illegible]	[illegible]	0047	0047
JUN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.10	.10	[illegible]	.12	[illegible]
DATE	[illegible]	[illegible]	24	24	24	24	24	[illegible]	24	24	[illegible]	24
TIME	0310	[illegible]	[illegible]	0325	[illegible]	[illegible]	0405	[illegible]	0445	[illegible]	[illegible]	0605
JUL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.13	.14	.15	.15	[illegible]
DATE	[illegible]	[illegible]	[illegible]	28	[illegible]	[illegible]	28	28	[illegible]	[illegible]	28	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	2137	[illegible]	2137	2236	[illegible]	[illegible]	[illegible]	2300
AUG	[illegible]	.05	.07	.10	[illegible]	[illegible]	.15	.15	.20	.22	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17	[illegible]	[illegible]	17	17	17	[illegible]
TIME	[illegible]	[illegible]	[illegible]	1230	[illegible]	1255	1310	[illegible]	[illegible]	1410	1440	[illegible]
SEP	[illegible]	.34	[illegible]	[illegible]	[illegible]	[illegible]	.45	.45	.45	[illegible]	[illegible]	.45
DATE	13	[illegible]	15	[illegible]	[illegible]	15	[illegible]	15	[illegible]	15	15	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1817	[illegible]	1817	1817	[illegible]	1817
OCT	.05	[illegible]	[illegible]	.11	[illegible]	[illegible]	[illegible]	.29	.33	[illegible]	[illegible]	[illegible]
DATE	[illegible]	29	[illegible]	[illegible]	[illegible]	29	[illegible]	29	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1813	[illegible]	[illegible]
NOV	.05	[illegible]	[illegible]	.15	[illegible]	[illegible]	.25	.30	.35	.36	[illegible]	.45
DATE	[illegible]	[illegible]	[illegible]	14	[illegible]	[illegible]	14	[illegible]	[illegible]	[illegible]	14	[illegible]
TIME	[illegible]	[illegible]	2140	[illegible]	[illegible]	[illegible]	2215	2215	[illegible]	2216	2230	2230
DEC	[illegible]	[illegible]	.10	.13	[illegible]	.22	.25	.35	[illegible]	.40	.50	.56
DATE	[illegible]	[illegible]	[illegible]	11	11	11	[illegible]	[illegible]	11	11+	[illegible]	04
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1906	1915	[illegible]	1955	0945	1000
YEAR	[illegible]	.34	.37	[illegible]	[illegible]	[illegible]	.45	[illegible]	.50	.55	.62	[illegible]
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	01

ALLENTOWN, PENNSYLVANIA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	.10	.12	.14	[illegible]	.22	.29	.32	.36	[illegible]	.44	[illegible]
DATE	[illegible]	24	[illegible]	25	25	25	25	25	09	[illegible]	[illegible]	[illegible]
TIME	1113	1110	[illegible]	1535	1546	[illegible]	[illegible]	1610	0600	[illegible]	0600	0600
FEB	[illegible]	[illegible]	[illegible]	.15	[illegible]	[illegible]	.23	.25	.26	[illegible]	.35	.43
DATE	24	24	24	24	24	[illegible]	24	24	12	[illegible]	[illegible]	12
TIME	[illegible]	0927	[illegible]	[illegible]	0940	[illegible]	1010	1030	1250	1250	1250	1145
MAR	.07	.09	.11	.14	[illegible]	[illegible]	.27	.34	.40	[illegible]	.53	.59
DATE	14	14	[illegible]	19	[illegible]	19	[illegible]	19	19	[illegible]	[illegible]	[illegible]
TIME	[illegible]	1524	1454	1459	1500	[illegible]	[illegible]	1500	1525	[illegible]	[illegible]	[illegible]
APR	.15	.21	[illegible]	.27	.30	[illegible]	.56	.63	.75	[illegible]	1.05	1.35
DATE	[illegible]	[illegible]	03	[illegible]	03	[illegible]	03	[illegible]	03	03	[illegible]	[illegible]
TIME	0751	[illegible]	[illegible]	[illegible]	[illegible]	0550	0800	[illegible]	0755	[illegible]	0735	0805
MAY	.25	[illegible]	.41	[illegible]	.53	.53	.53	.60	.65	.70	.72	[illegible]
DATE	06	30	[illegible]	[illegible]	30	30	30	30	30	[illegible]	30	[illegible]
TIME	[illegible]	[illegible]	[illegible]	0901	[illegible]	0909	[illegible]	0907	[illegible]	0907	[illegible]	[illegible]
JUN	.22	[illegible]	[illegible]	[illegible]	.56	.65	[illegible]	.68	.80	.82	.84	.85
DATE	[illegible]	05	[illegible]	[illegible]	05	[illegible]	[illegible]	05	[illegible]	05	[illegible]	[illegible]
TIME	2027	2032	2035	[illegible]	[illegible]	2100	2100	2120	2155	2200	[illegible]	2300
JUL	.35	[illegible]	.70	[illegible]	.78	[illegible]	[illegible]	[illegible]	1.17	1.17	[illegible]	1.38
DATE	03	03	03	[illegible]	24	[illegible]	[illegible]	[illegible]	[illegible]	25	[illegible]	[illegible]
TIME	[illegible]	[illegible]	1403	[illegible]	2320	2335	2350	0010	[illegible]	[illegible]	0120	0150
AUG	.16	.28	.42	[illegible]	.53	[illegible]	.68	[illegible]	[illegible]	[illegible]	.85	.87
DATE	[illegible]	[illegible]	[illegible]	04	[illegible]	[illegible]	04	16	[illegible]	[illegible]	[illegible]	[illegible]
TIME	0753	[illegible]	0755	0800	[illegible]	[illegible]	0828	[illegible]	[illegible]	0600	0600	[illegible]
SEP	.13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.68	.70	[illegible]	.85	.93	.96
DATE	[illegible]	[illegible]	24	24	24	[illegible]	24	[illegible]	24	[illegible]	24	24
TIME	0035	[illegible]	[illegible]	1005	1035	1005	1013	1033	1053	1013	[illegible]	1040
OCT	.16	.27	[illegible]	[illegible]	[illegible]	.43	.48	.52	.70	[illegible]	.80	.85
DATE	18	[illegible]	[illegible]	[illegible]	[illegible]	18	18	[illegible]	[illegible]	[illegible]	[illegible]	18
TIME	[illegible]	[illegible]	0852	0852	[illegible]	0710	[illegible]	0725	0725	[illegible]	0852	0852
NOV	.10	.11	[illegible]	.17	.23	.25	.31	.37	[illegible]	[illegible]	.54	.59
DATE	10	[illegible]	[illegible]	12	12	[illegible]	12	[illegible]	[illegible]	12	[illegible]	12
TIME	[illegible]	[illegible]	1240	[illegible]	1745	1800	1810	[illegible]	1853	[illegible]	[illegible]	1853
DEC	[illegible]	[illegible]	[illegible]	.13	.18	.25	.32	.39	[illegible]	.57	.70	.82
DATE	[illegible]	01	26	26	26	[illegible]	26	26	26	[illegible]	26	26
TIME	0540	[illegible]	0645	[illegible]	[illegible]	0715	0730	0740	0640	0700	0715	0745
YEAR	.35	[illegible]	[illegible]	[illegible]	.78	[illegible]	1.13	1.17	1.17	[illegible]	1.35	1.38
MONTH	[illegible]	[illegible]	07	[illegible]	07	[illegible]	07	[illegible]	[illegible]	[illegible]	[illegible]	07

ERIE, PENNSYLVANIA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.09	.15	.16	.20	.26	.30	.35	.41	.43	.45	.48	.50
DATE	29	29	29	29	29	29	29	29	29	29	29	29
TIME	1323	0619	0624	0629	0639	0654	0709	0729	0735	0735	0735	0735
FEB	.05	.08	.09	.14	.15	.17	.18	.20	.20	.24	.29	.35
DATE	24	24	24	24	24	24	24	24	24	24	24	24
TIME	1435	1440	1440	1440	1450	1505	1520	1540	1600	1620	1650	1720
MAR	.16	.18	.20	.24	.25	.27	.29	.37	.37	.38	.42	.48
DATE	24	24	24	24	24	24	24	24	24	07	07	07
TIME	1616	1618	1620	1628	1640	1655	1709	1721	1740	1320	1352	1415
APR	.08	.13	.16	[illegible]	.24	.29	.36	.45	.55	.57	.58	.58
DATE	18	18	18	18	18	18	18	18	18	18	18	18
TIME	1650	1655	1700	1700	1700	1700	1700	1700	1700	1715	1735	1735
MAY	.12	.15	.16	.19	.22	.27	.30	.38	.47	.52	.57	.62
DATE	26	26	26	26	26	06	06	31	31	31	31	31
TIME	1602	1607	1612	1617	1627	0925	0940	2330	2345	2345	2359	2330
JUN	.22	.44	.53	.63	.74	.78	.82	.84	.90	.90	.90	.90
DATE	14	14	05	05	05	05	05	05	05	05	05	05
TIME	1634	1638	1035	1040	1040	1055	1110	1130	1150	1150	1150	1150
JUL	.38	.47	.60	.64	.71	.84	.85	1.09	1.13	1.13	1.27	1.27
DATE	24	24	24	20	20	20	20	20	20	20	20	20
TIME	1145	1147	1147	1440	1445	1445	1445	1522	1545	1552	1618	1618
AUG	.32	.50	.61	.70	.93	1.14	1.40	1.51	1.51	1.51	1.63	1.90
DATE	24	24	04	25	25	25	25	25	25	25	25	25
TIME	0945	0948	0729	2117	2130	2130	2135	2155	2204	2250	2312	2335
SEP	.06	.08	.08	.09	.12	.13	.17	.18	.21	.25	.30	.30
DATE	11	11	11	20	20	22	22	22	20	20	20	20
TIME	2352	2358	2358	0650	0650	0035	0045	0105	0705	0730	0800	0830
OCT	.05	[illegible]	[illegible]	.12	.14	[illegible]	.18	.23	.27	.28	.30	.31
DATE	09	09	09	09	15	15	15	15	15	15	15	15
TIME	1527	1530	1530	1535	1635	1647	1715	1730	1745	1802	1832	1900
NOV	.32	.37	.37	.37	.37	.37	.38	.39	.39	.39	.43	.51
DATE		10	10	10	10	10	10	30	30	30	10	10
TIME	1050	1058	1058	1058	1058	1058	1058	2048	2108	2108	1058	1058
DEC	.04	.07	.11	.13	.18	.23	.29	.37	.42	.44	.51	.56
DATE	06	06	06	06	15	15	15	15	15	15	15	15
TIME	0830	0830	0830	0840	0550	0600	0614	0630	0645	0700	0733	0800
YEAR	.38	.59	.61	.70	.93	1.14	1.40	1.51	1.51	1.51	1.63	1.90
MONTH	07	08	08	08	08	08	08	08	08	08	08	08

HARRISBURG, PENNSYLVANIA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	[illegible]	[illegible]	.22	[illegible]	.35	[illegible]	[illegible]	.54	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	09	[illegible]	[illegible]	09	[illegible]	09
TIME	[illegible]	[illegible]	0230	[illegible]	0207	0218	[illegible]	0218	[illegible]	0155	0127	0058
FEB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.25	.29	[illegible]	.32	[illegible]	.36
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24	24	24	24	[illegible]	24
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1323	[illegible]	1305	1245	1245	[illegible]
MAR	[illegible]	.06	[illegible]	[illegible]	[illegible]	.18	[illegible]	[illegible]	.28	.31	[illegible]	.38
DATE	[illegible]	[illegible]	[illegible]	19	19	19	[illegible]	19	[illegible]	[illegible]	12	12
TIME	1217	[illegible]	[illegible]	[illegible]	1210	[illegible]	1210	[illegible]	[illegible]	[illegible]	[illegible]	0815
APR	[illegible]	[illegible]	.11	.15	[illegible]	.25	.33	.43	[illegible]	.52	.51	.68
DATE	[illegible]	[illegible]	24	[illegible]	24	24	[illegible]	[illegible]	[illegible]	25	[illegible]	25
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1723	1707	1654	1633	1612	1435	[illegible]	1350
MAY	.23	.30	.35	[illegible]	[illegible]	[illegible]	.52	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	25	25	25	[illegible]	[illegible]	[illegible]	[illegible]	12	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1624	1437	1437	[illegible]	[illegible]	1350	1350
JUN	[illegible]	[illegible]	[illegible]	.46	.65	[illegible]	1.00	[illegible]	1.29	1.39	[illegible]	1.68
DATE	27	[illegible]	27	[illegible]	[illegible]	27	[illegible]	[illegible]	27	27	[illegible]	27
TIME	[illegible]	[illegible]	0745	[illegible]	[illegible]	0745	0745	0745	0705	[illegible]	[illegible]	0705
JUL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.77	[illegible]	.90	.91	.92	[illegible]	.92
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13	[illegible]	[illegible]	[illegible]	13
TIME	[illegible]	[illegible]	[illegible]	1455	[illegible]	[illegible]	1535	1555	1615	1635	1705	1735
AUG	[illegible]	.32	.33	.33	[illegible]	.37	[illegible]	.43	[illegible]	[illegible]	[illegible]	.47
DATE	[illegible]	[illegible]	[illegible]	13	13	[illegible]	[illegible]	13	13	13	13	13
TIME	[illegible]	[illegible]	[illegible]	1717	1727	[illegible]	1757	1817	[illegible]	1857	1927	1931
SEP	.26	[illegible]	[illegible]	.72	[illegible]	1.30	1.45	1.63	[illegible]	[illegible]	[illegible]	2.14
DATE	[illegible]	[illegible]	[illegible]	26	26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	0052	[illegible]	0110	0110	0110	[illegible]	[illegible]	0110	[illegible]
OCT	[illegible]	[illegible]	.22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.52	[illegible]	.57
DATE	[illegible]	[illegible]	[illegible]	18	18	[illegible]	[illegible]	[illegible]	18	18	[illegible]	18
TIME	[illegible]	[illegible]	[illegible]	0200	[illegible]	[illegible]	0215	0235	0255	[illegible]	[illegible]	0305
NOV	.07	[illegible]	[illegible]	.18	[illegible]	.27	.30	.37	[illegible]	[illegible]	[illegible]	.68
DATE	[illegible]	21	[illegible]	[illegible]	[illegible]	12	12	12	12	[illegible]	12	12
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1025	[illegible]	1445	1505	1525	1545	[illegible]	1645
DEC	[illegible]	[illegible]	[illegible]	.11	[illegible]	.19	.22	.25	[illegible]	[illegible]	.45	.55
DATE	[illegible]	[illegible]	[illegible]	26	[illegible]	[illegible]	[illegible]	26	[illegible]	26	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0615	0615	[illegible]	[illegible]	[illegible]	[illegible]
YEAR	[illegible]	.42	[illegible]	.72	.98	1.30	[illegible]	[illegible]	1.70	[illegible]	[illegible]	2.14
MONTH	[illegible]	[illegible]	[illegible]	09	[illegible]	[illegible]	[illegible]	[illegible]	09	09	[illegible]	[illegible]

PHILADELPHIA, PENNSYLVANIA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	[illegible]	.09	[illegible]	.15	.21	.26	[illegible]	[illegible]	.42	[illegible]
DATE	[illegible]	[illegible]	[illegible]	18	18	18	[illegible]	18	[illegible]	18	[illegible]	[illegible]
TIME	1342	1342	1342	[illegible]	1515	1515	1515	[illegible]	1515	1515	1515	1515
FEB	.07	[illegible]	.12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.54	.62	.63
DATE	[illegible]	23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	23	[illegible]	23	23
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0900	[illegible]	0940	1000	[illegible]	[illegible]
MAR	.10	.20	[illegible]	.30	[illegible]	.52	.69	[illegible]	.78	[illegible]	.90	1.06
DATE	19	19	[illegible]	19	19	[illegible]	19	[illegible]	19	[illegible]	19	14
TIME	[illegible]	[illegible]	1625	[illegible]	[illegible]	1625	1630	1640	1640	1640	1640	[illegible]
APR	.16	.18	[illegible]	.20	[illegible]	[illegible]	.35	[illegible]	[illegible]	.58	.73	.82
DATE	03	03	[illegible]	03	24	24	24	[illegible]	[illegible]	[illegible]	[illegible]	25
TIME	[illegible]	[illegible]	0950	0955	1955	[illegible]	2010	[illegible]	1835	1835	1905	1935
MAY	.27	[illegible]	[illegible]	[illegible]	.58	[illegible]	[illegible]	[illegible]	.62	.65	[illegible]	.71
DATE	[illegible]	21	21	[illegible]	[illegible]	[illegible]	21	[illegible]	[illegible]	[illegible]	[illegible]	30
TIME	[illegible]	[illegible]	[illegible]	2105	[illegible]	2130	[illegible]	[illegible]	1100	1120	[illegible]	[illegible]
JUN	.28	[illegible]	[illegible]	[illegible]	1.18	1.20	1.20	1.20	1.42	[illegible]	1.68	1.77
DATE	05	05	[illegible]	[illegible]	[illegible]	[illegible]	05	05	[illegible]	05	05	05
TIME	1923	[illegible]	1933	[illegible]	1948	2003	2018	[illegible]	2058	2118	[illegible]	2218
JUL	.42	.50	[illegible]	[illegible]	[illegible]	[illegible]	.92	.92	1.10	1.14	1.16	1.21
DATE	[illegible]	14	14	15	[illegible]	14	[illegible]	[illegible]	15	[illegible]	15	21
TIME	0210	[illegible]	[illegible]	0955	[illegible]	0235	[illegible]	0320	[illegible]	1015	1045	0005
AUG	.16	.31	[illegible]	.37	[illegible]	[illegible]	[illegible]	.55	.57	[illegible]	[illegible]	.70
DATE	04	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	04	16	[illegible]	16	16	[illegible]
TIME	[illegible]	[illegible]	[illegible]	2125	2135	[illegible]	[illegible]	0705	[illegible]	0705	0705	0705
SEP	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.03	1.03	1.03	1.03	1.03	1.03
DATE	[illegible]	[illegible]	26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	26	26	26	[illegible]
TIME	[illegible]	[illegible]	1435	[illegible]	1440	[illegible]	1500	1510	1510	1510	1510	[illegible]
OCT	.08	.12	.13	.15	.19	.26	.39	.43	.52	.61	[illegible]	[illegible]
DATE	17	17	17	[illegible]	17	17	17	17	[illegible]	17	[illegible]	[illegible]
TIME	2155	[illegible]	[illegible]	[illegible]	2200	2200	2200	2200	2200	[illegible]	2230	[illegible]
NOV	.12	[illegible]	.34	.34	[illegible]	.42	.54	.62	.70	.76	[illegible]	1.06
DATE	10	10	[illegible]	10	10	[illegible]	12	[illegible]	12	[illegible]	[illegible]	12
TIME	[illegible]	[illegible]	1815	[illegible]	[illegible]	[illegible]	1925	[illegible]	2005	2025	2055	2125
DEC	[illegible]	[illegible]	[illegible]	[illegible]	.11	.16	.20	.25	.33	.39	.46	.53
DATE	[illegible]	26+	[illegible]	26+	[illegible]	26+	[illegible]	[illegible]	[illegible]	26+	[illegible]	26+
TIME	0515	[illegible]	[illegible]	0525	0545	0550	0600	[illegible]	[illegible]	0600	0630	0700
YEAR	[illegible]	[illegible]	[illegible]	[illegible]	1.18	[illegible]	1.20	1.20	1.42	[illegible]	[illegible]	1.77
MONTH	07	09+	[illegible]	[illegible]	[illegible]	06	06	[illegible]	[illegible]	[illegible]	06	[illegible]

PITTSBURGH, PENNSYLVANIA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.10	.18	.19	[illegible]	.34	.42	.44	.47	.54	.56	.64	.70
DATE	29	29	29	29	29	29	29	29	29	29	29	29
TIME	1415	0010	0010	0020	0030	0045	0100	0120	0140	0200	0045	0130
FEB	.14	.18	.22	.24	.30	.36	.50	.63	.69	.85	.93	.99
DATE	23	23	23	23	23	23	23	23	23	23	23	23
TIME	1957	2007	2145	2146	2200	2200	2200	2200	2200	2147	2207	2247
MAR	.07	.09	.11	.13	.18	.28	.34	.45	.55	.59	.64	.68
DATE	12	12	12	12	12	12	12	12	12	12	12	12
TIME	0432	0438	0442	0457	0500	0511	0527	0543	0608	0640	0648	0721
APR	.12	.14	.14	.14	.15	.18	.20	.25	.29	.36	.43	.46
DATE	03	03	03	03	03	03	03	03	03	03	03	03
TIME	0230	0235	0235	0235	0235	0235	0107	0107	0235	0235	0235	0235
MAY	.05	.06	.07	.08	.10	.14	.15	.18	.22	.23	.25	.26
DATE	01	01	01	01	06	06	06	06	06	06	06	06
TIME	2020	2125	2130	2135	0305	0320	0335	0345	0410	0425	0430	0500
JUN	.53	.74	.78	1.20	1.37	1.39	1.39	1.39	1.39	1.39	1.39	1.39
DATE	26	26	26	26	26	26	26	26	26	26	26	26
TIME	1502	1503	1504	1505	1503	1502	1502	1502	1502	1502	1502	1502
JUL	.50	.60	.72	[illegible]	1.26	1.30	1.32	1.32	1.32	1.32	1.32	1.32
DATE	20	09	09	09	09	09	09	09	09	09	09	09
TIME	1835	1002	1002	1002	1005	1015	1025	1030	1030	1030	1030	1030
AUG	.46	.60	[illegible]	.63	.84	.88	.95	.95	1.14	1.28	1.30	1.34
DATE	13	13	13	13	13	13	13	13	13	13	13	13
TIME	1706	1711	1716	1721	1731	1746	1801	1821	1841	1901	1931	2001
SEP	.28	.35	.35	.35	.35	.35	.46	.57	.67	.75	.98	1.10
DATE	06	06	06	06	06	06	24	24	24	24	24	24
TIME	1541	1546	1551	1556	1606	1621	0250	0307	1521	0301	0307	0307
OCT	.06	.10	.12	.16	.23	.32	.40	.49	.58	.64	.80	.89
DATE	17	17	17	17	17	17	17	17	17	17	17	17
TIME	1540	1545	1553	1600	1600	1630	1630	1630	1705	1650	1720	1750
NOV	.06	.07	.08	.09	.12	.14	.15	.17	.20	.24	.27	.35
DATE	10	10	10	10	10	10	10	10	10	10	10	10
TIME	0804	0440	0447	0453	0500	0514	0529	0340	0402	0357	0435	0520
DEC	.06	.08	.10	.11	.12	.15	.17	.26	.31	.34	.39	.40
DATE	15	15	15	15	15	26	26	26	26	26	26	26
TIME	0827	0831	0835	0839	0848	0141	0157	0147	0145	0145	0200	0200
YEAR	.53	.74	.78	1.20	1.37	1.39	1.39	1.39	1.39	1.39	1.39	1.39
MONTH	06	06	06	06	06	06	06	06	06	06	06	06

PITTSBURGH, PENNSYLVANIA C.O.

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.08	.11	[illegible]	[illegible]	[illegible]	.26	.27	.31	.32	.35	.50	.55
DATE	[illegible]	[illegible]	[illegible]	[illegible]	29	[illegible]	29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0050	[illegible]	[illegible]	[illegible]	0100	[illegible]	[illegible]
FEB	[illegible]	.13	[illegible]	[illegible]	[illegible]	.24	.34	[illegible]	.52	.54	.58	.65
DATE	[illegible]	[illegible]	23	[illegible]	[illegible]	[illegible]	23	23	23	23	23	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1715	1715	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2252
MAR	[illegible]	[illegible]	.12	.14	.16	.24	.30	.38	[illegible]	.50	[illegible]	.60
DATE	[illegible]	[illegible]	[illegible]	12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12	[illegible]
TIME	[illegible]	[illegible]	[illegible]	0530	[illegible]	0545	0600	[illegible]	[illegible]	[illegible]	0710	0730
APR	[illegible]	[illegible]	[illegible]	[illegible]	.38	[illegible]	.62	.76	.82	.93	1.05	1.12
DATE	[illegible]	[illegible]	[illegible]	[illegible]	25	[illegible]	25	25	25	25	25	25
TIME	1330	[illegible]	[illegible]	[illegible]	1300	1300	1300	1305	[illegible]	[illegible]	[illegible]	1340
MAY	[illegible]	.32	[illegible]	[illegible]	.52	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.76	.85
DATE	[illegible]	[illegible]	01	[illegible]	[illegible]	01	01	01	[illegible]	[illegible]	[illegible]	01
TIME	[illegible]	2110	[illegible]	2120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2200	[illegible]	2200
[illegible]												
DATE												
TIME												
JUL	[illegible]	[illegible]	[illegible]	[illegible]	1.52	1.76	1.86	1.88	[illegible]	[illegible]	1.90	1.90
DATE	[illegible]	[illegible]	03	[illegible]	[illegible]	[illegible]	03	[illegible]	[illegible]	[illegible]	[illegible]	03
TIME	1730	1735	[illegible]	[illegible]	[illegible]	1800	[illegible]	1800	[illegible]	1840	1840	[illegible]
AUG	.62	[illegible]	1.10	1.26	[illegible]	[illegible]	[illegible]	[illegible]	1.75	[illegible]	1.76	1.76
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10	[illegible]	[illegible]
TIME	[illegible]	[illegible]	1333	[illegible]	[illegible]	[illegible]	[illegible]	1415	[illegible]	1507	1537	[illegible]
SEP	[illegible]	[illegible]	[illegible]	.23	[illegible]	[illegible]	.54	.60	.67	[illegible]	.83	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24	[illegible]	[illegible]	24	24	24	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0120	0130	[illegible]	[illegible]	[illegible]
OCT	[illegible]	.17	[illegible]	.25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.67
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1700	[illegible]	1750	1820	1830	1900	1930
NOV	[illegible]	[illegible]	[illegible]	[illegible]	.14	.14	.18	.22	.26	.28	[illegible]	[illegible]
DATE	[illegible]	12	[illegible]	[illegible]	[illegible]	[illegible]	10	10	10	10	[illegible]	10
TIME	0325	[illegible]	1030	1030	[illegible]	1055	0415	0435	[illegible]	0515	[illegible]	[illegible]
DEC	[illegible]	.04	[illegible]	.08	.12	[illegible]	[illegible]	[illegible]	.34	[illegible]	.37	.38
DATE	[illegible]	[illegible]	[illegible]	26	[illegible]	[illegible]	26	[illegible]	[illegible]	[illegible]	26	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0115	[illegible]	0115	[illegible]	0200	[illegible]	0300
YEAR	.62	[illegible]	1.10	[illegible]	1.52	1.78	[illegible]	1.88	[illegible]	1.90	[illegible]	1.90
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	07	[illegible]	07	[illegible]	07	07	[illegible]	[illegible]

WILKES-BARRE-SCRANTON, PA.

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	[illegible]	.12	[illegible]	.22	.28	.32	.41	[illegible]	.51	[illegible]
DATE	[illegible]	[illegible]	[illegible]	09	[illegible]	09	[illegible]	[illegible]	[illegible]	[illegible]	09	09
TIME	[illegible]	[illegible]	0515	[illegible]	0515	0515	0515	0515	[illegible]	[illegible]	[illegible]	0615
FEB	.15	.20	.27	[illegible]	.29	[illegible]	.32	.34	.35	[illegible]	.36	.39
DATE	[illegible]	[illegible]	24	[illegible]	24	24	[illegible]	[illegible]	[illegible]	[illegible]	24	24
TIME	1558	1600	[illegible]	[illegible]	1600	[illegible]	1600	1620	1620	1620	[illegible]	0445
MAR	[illegible]	.09	.11	[illegible]	.15	.20	[illegible]	[illegible]	[illegible]	.43	[illegible]	.52
DATE	[illegible]	[illegible]	[illegible]	19	[illegible]	19	19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	1440	[illegible]	1454	[illegible]	1456	1620	[illegible]	1600	1630	1700
APR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.23	[illegible]	[illegible]	.34	[illegible]	.40	[illegible]
DATE	03	03	[illegible]	03	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	03	03	03
TIME	[illegible]	[illegible]	[illegible]	0448	0513	0515	[illegible]	0529	0547	0605	0643	[illegible]
MAY	[illegible]	[illegible]	[illegible]	.53	[illegible]	[illegible]	.54	.54	.54	[illegible]	.54	.63
DATE	24	[illegible]	24	[illegible]	24	[illegible]	[illegible]	[illegible]	24	[illegible]	24	16
TIME	[illegible]	[illegible]	1848	[illegible]	1903	1918	[illegible]	1953	[illegible]	[illegible]	2103	[illegible]
JUN	.26	[illegible]	[illegible]	.37	[illegible]	[illegible]	[illegible]	.49	.49	[illegible]	.51	[illegible]
DATE	[illegible]	05	[illegible]	[illegible]	[illegible]	05	[illegible]	05	[illegible]	05	03	03
TIME	1555	[illegible]	[illegible]	[illegible]	1610	[illegible]	1620	1630	[illegible]	1630	0215	0300
JUL	[illegible]	[illegible]	[illegible]	.53	.53	.53	[illegible]	.53	.53	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	21	21	21	[illegible]	21	[illegible]	24	24
TIME	1239	1244	[illegible]	[illegible]	1250	1305	1310	[illegible]	1310	1310	[illegible]	2212
AUG	[illegible]	[illegible]	[illegible]	.26	.26	.27	.28	[illegible]	.45	.53	.62	.68
DATE	25	25	[illegible]	[illegible]	[illegible]	25	[illegible]	[illegible]	[illegible]	06	06	[illegible]
TIME	1315	1317	[illegible]	[illegible]	[illegible]	[illegible]	1205	1215	1205	[illegible]	1245	1315
SEP	.29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.62	[illegible]	.83	.84	.84	.88
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	08	[illegible]	[illegible]	08	[illegible]	25
TIME	[illegible]	[illegible]	[illegible]	2036	2046	2101	2116	2136	2156	2154	2224	0130
OCT	[illegible]	.31	.31	[illegible]	[illegible]	.32	[illegible]	.50	[illegible]	.58	.58	.59
DATE	[illegible]	11	[illegible]	[illegible]	[illegible]	11	[illegible]	[illegible]	[illegible]	18	[illegible]	[illegible]
TIME	[illegible]	1235	[illegible]	[illegible]	1755	[illegible]	0437	[illegible]	0500	[illegible]	0513	0525
NOV	.06	[illegible]	[illegible]	[illegible]	.17	.21	.22	[illegible]	.28	[illegible]	[illegible]	.43
DATE	[illegible]	[illegible]	27	[illegible]	27	[illegible]	27	27	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	0443	[illegible]	[illegible]	0523	0543	1344	1404	1434	[illegible]
DEC	[illegible]	.07	[illegible]	.11	.16	[illegible]	[illegible]	.28	[illegible]	.33	[illegible]	[illegible]
DATE	26	[illegible]	26	26	[illegible]	[illegible]	[illegible]	26	26	[illegible]	[illegible]	26
TIME	0515	0530	[illegible]	[illegible]	0533	0535	0552	0602	[illegible]	0630	0715	0745
YEAR	[illegible]	[illegible]	.51	[illegible]	[illegible]	[illegible]	.62	.74	.83	.84	.84	.88
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	05	[illegible]	09	09	09	[illegible]	09

BLOCK ISLAND, RHODE ISLAND

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	.23	.25	.30	.39	.46	.59	.77	.90	1.04	1.23	1.30
DATE	18	18	18	07	07	07	07	07	07	07	07	07
TIME	1814	1815	1818	0748	0748	0758	0815	0820	0840	0900	0905	0920
FEB	.15	.23	.26	.28	.34	.38	.40	.42	.55	.61	.75	.83
DATE	24	24	24	24	24	24	24	24	24	24	24	24
TIME	1959	2001	2006	2011	2022	2030	2045	2105	2115	2145	2215	2245
MAR	.12	[illegible]	.23	.24	.27	.28	.29	.31	.32	.33	.34	.54
DATE	25	25	25	25	25	25	25	25	25	25	25	25
TIME	2100	2105	2110	2115	2120	2128	2135	2203	1938	1945	1950	2105
APR	.10	.15	.16	.17	.24	.30	.40	.49	.51	.59	.67	.89
DATE	03	03	03	03	03	03	03	03	03	03	03	03
TIME	1323	1328	1333	1338	1348	1149	1156	1158	1158	1158	1400	1400
MAY	[illegible]	.50	[illegible]	.57	.73	.88	1.00	1.00	1.00	1.12	1.12	1.12
DATE	31	31	31	31	31	31	31	31	31	31	31	31
TIME	0503	0504	0505	0505	0512	0532	0537	0537	0537	0537	0537	0537
JUN	.22	.40	.47	[illegible]	.65	.72	.79	.83	.85	.85	.93	1.05
DATE	06	06	06	06	06	06	06	06	06	06	06	06
TIME	0317	0317	0317	0317	0327	0338	0346	0346	0348	0348	[illegible]	0345
JUL	.10	[illegible]	.17	.19	.27	.30	.30	.30	.31	.32	.33	.34
DATE	12	12	12	12	12	12	12	12	12	12	12	12
TIME	1559	1559	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
AUG	.27	.51	.55	.74	.85	1.07	1.17	1.28	1.33	1.39	1.65	1.75
DATE	07	07	07	07	07	07	07	07	07	07	07	07
TIME	0218	0222	0227	0230	0230	0232	0247	0307	0317	0232	[illegible]	0332
SEP	.08	.14	.17	[illegible]	[illegible]	.34	.43	.53	.60	.65	.78	.82
DATE	12	12	12	12	12	12	12	12	12	12	12	12
TIME	1946	1946	1946	1946	[illegible]	2014	2033	2033	2053	2113	2143	2223
OCT	.08	.14	.16	.18	.23	.28	.38	.42	.55	.63	.67	.70
DATE	18	18	18	18	18	18	18	18	18	18	18	18
TIME	1557	1602	1602	1602	0026	0026	0032	0035	0055	0115	0143	0143
NOV	.17	.22	.24	.27	.36	[illegible]	.59	.64	.70	.73	.76	.76
DATE	21	21	21	21	21	21	21	21	21	13	13	13
TIME	1917	1918	1918	1918	1945	1947	2002	2020	2040	1540	1615	1645
DEC	.07	[illegible]	.13	.14	.15	.16	.20	.24	.28	.31	.35	.45
DATE	[illegible]	[illegible]	20	20	20	20	30	30	31	31	31	31
TIME	[illegible]	[illegible]	[illegible]	[illegible]	2335	[illegible]	2340	2359	[illegible]	0045	0015	0020
YEAR	.30	.51	.55	.74	.85	1.07	1.17	1.28	1.33	1.39	1.65	1.75
MONTH	05	08	08	08	08	08	08	08	08	08	08	08

MAXIMUM SHORT DURATION PRECIPITATION

[illegible]

JAN	[illegible]	[illegible]	[illegible]	.20	.21	.27	.34	[illegible]	.55	.60	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	09	[illegible]	[illegible]	[illegible]	09	09	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1230	1945	1300	1300	1300	1300	1400	[illegible]
FEB	[illegible]	[illegible]	[illegible]	.10	.14	[illegible]	[illegible]	[illegible]	.23	.25	[illegible]	.35
DATE	[illegible]	[illegible]	[illegible]	24	24	24	24	24	24	24	24	[illegible]
TIME	[illegible]	[illegible]	[illegible]	2027	[illegible]	2035	2050	2110	2130	2150	2210	2250
MAR	[illegible]	.04	[illegible]	[illegible]	.11	.11	.11	[illegible]	[illegible]	.20	.23	[illegible]
DATE	[illegible]	14	14	14	[illegible]	[illegible]	[illegible]	[illegible]	19	19	19	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0120	2000	2045	[illegible]	2130	[illegible]
APR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.35	.46	[illegible]	.77	[illegible]	[illegible]	1.23
DATE	[illegible]	3	[illegible]	[illegible]	[illegible]	[illegible]	03	03	[illegible]	03	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1325	1300	[illegible]	1345	[illegible]	1338	1413
MAY	[illegible]	[illegible]	.37	.39	.41	[illegible]	.43	[illegible]	[illegible]	[illegible]	.43	.43
DATE	[illegible]	27	27	27	27	27	27	[illegible]	27	[illegible]	27	27
TIME	[illegible]	[illegible]	1733	[illegible]	1748	[illegible]	[illegible]	1817	[illegible]	[illegible]	1817	1817
JUN	[illegible]	[illegible]	[illegible]	.55	[illegible]	.91	1.06	[illegible]	1.19	1.19	1.19	[illegible]
DATE	3	3	[illegible]	03	[illegible]	3	3	03	[illegible]	03	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1729	1729	[illegible]	[illegible]	1729	[illegible]
JUL	[illegible]	[illegible]	[illegible]	.54	[illegible]	.80	.84	1.00	[illegible]	1.02	1.02	[illegible]
DATE	[illegible]	25	[illegible]	[illegible]	25	25	[illegible]	25	[illegible]	[illegible]	25	25
TIME	[illegible]	[illegible]	0815	[illegible]	[illegible]	[illegible]	0900	0910	0930	[illegible]	[illegible]	0945
AUG	[illegible]	.13	[illegible]	[illegible]	[illegible]	.27	.34	.42	.47	[illegible]	.51	.55
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	07	[illegible]	[illegible]	07	[illegible]	07
TIME	[illegible]	0522	[illegible]	0525	[illegible]	0525	0525	0535	0545	[illegible]	[illegible]	0600
SEP	[illegible]	[illegible]	.48	.48	[illegible]	[illegible]	[illegible]	.70	[illegible]	.92	1.02	1.07
DATE	[illegible]	[illegible]	[illegible]	[illegible]	21	21	[illegible]	12	12	12	12	12
TIME	[illegible]	[illegible]	[illegible]	1415	[illegible]	[illegible]	1927	[illegible]	2007	1952	[illegible]	2052
OCT	.12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.07	1.07	1.13
DATE	[illegible]	[illegible]	[illegible]	[illegible]	25	25	[illegible]	[illegible]	25	[illegible]	25	25
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1400	[illegible]	[illegible]	1415	[illegible]	1435	[illegible]	1417
NOV	[illegible]	[illegible]	[illegible]	[illegible]	.45	.57	.68	.87	1.09	1.15	[illegible]	1.36
DATE	[illegible]	13	13	13	13	13	13	[illegible]	[illegible]	13	[illegible]	[illegible]
TIME	[illegible]	[illegible]	0110	0115	0120	[illegible]	0150	[illegible]	[illegible]	[illegible]	0235	0235
DEC	.05	[illegible]	[illegible]	.15	.22	.31	.39	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	26	26	[illegible]	[illegible]	[illegible]	26	[illegible]	26	[illegible]	25	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1300	[illegible]	1340	[illegible]	[illegible]	1500
YEAR	[illegible]	[illegible]	[illegible]	.55	[illegible]	.91	1.06	1.14	1.19	1.19	[illegible]	[illegible]
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	06	[illegible]	[illegible]	[illegible]	11	[illegible]

[illegible]MBIA, [illegible]

JAN	.15	[illegible]	.35	[illegible]	[illegible]	[illegible]	.42	.42	.42	.50	[illegible]	.56
DATE	25	25	25	25	25	[illegible]	[illegible]	25	25	[illegible]	11	[illegible]
TIME	[illegible]	[illegible]	1005	[illegible]	1005	[illegible]	[illegible]	1027	1027	[illegible]	[illegible]	[illegible]
FEB	.35	.64	.67	[illegible]	.78	[illegible]	.79	.80	.80	[illegible]	.85	[illegible]
DATE	[illegible]	18	18	18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	2249	2249	[illegible]	2300	[illegible]	2300	[illegible]	2300	[illegible]	2330	[illegible]
MAR	[illegible]	.17	.20	.23	.34	[illegible]	[illegible]	[illegible]	.67	.67	[illegible]	[illegible]
DATE	[illegible]	[illegible]	24	[illegible]	14	[illegible]	[illegible]	[illegible]	[illegible]	14	14	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	0205	0216	[illegible]	0252	0310	0310	[illegible]	[illegible]
APR	.26	.33	.36	[illegible]	[illegible]	.66	[illegible]	[illegible]	1.11	[illegible]	1.20	1.34
DATE	[illegible]	03	[illegible]	[illegible]	[illegible]	[illegible]	03	03	03	03	[illegible]	[illegible]
TIME	[illegible]	0032	[illegible]	0042	[illegible]	0030	0045	[illegible]	0127	[illegible]	0111	[illegible]
MAY	.60	*1.20	1.35	[illegible]	[illegible]	1.70	1.73	[illegible]	1.75	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	10	[illegible]	10	[illegible]	[illegible]	[illegible]	[illegible]	10	[illegible]	10
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2015	[illegible]	[illegible]	[illegible]	2015	[illegible]
JUN	[illegible]	[illegible]	[illegible]	.77	.83	.86	[illegible]	.87	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	18	[illegible]	[illegible]	18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	1956	[illegible]	[illegible]	[illegible]	[illegible]	2056	[illegible]	[illegible]	2117	2117
JUL	.31	[illegible]	[illegible]	[illegible]	1.00	1.30	[illegible]	1.64	[illegible]	1.95	2.00	2.02
DATE	[illegible]	14	14	14	14	14	[illegible]	[illegible]	[illegible]	[illegible]	14	14
TIME	1030	1035	[illegible]	[illegible]	1050	1105	1115	[illegible]	[illegible]	[illegible]	[illegible]	1145
AUG	[illegible]	[illegible]	.48	[illegible]	.75	.82	.93	1.05	[illegible]	1.15	1.22	1.27
DATE	[illegible]	[illegible]	[illegible]	[illegible]	10	10	[illegible]	[illegible]	27	27	27	[illegible]
TIME	[illegible]	[illegible]	1740	1745	1755	1810	1925	[illegible]	2009	[illegible]	[illegible]	[illegible]
SEP	[illegible]	[illegible]	.40	.52	.59	.63	[illegible]	[illegible]	[illegible]	1.23	1.30	1.31
DATE	[illegible]	17	17	17	17	[illegible]	17	[illegible]	17	17	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2030	2045	2105	[illegible]	[illegible]	2215	2245
OCT	.11	.13	[illegible]	[illegible]	[illegible]	.21	[illegible]	.21	.21	.21	.22	.22
DATE	[illegible]	17	[illegible]	[illegible]	[illegible]	[illegible]	17	[illegible]	17	17	17	17
TIME	1815	[illegible]	1750	1750	[illegible]	1750	1750	1750	1750	1750	1750	[illegible]
NOV	[illegible]	.40	.42	[illegible]	[illegible]	[illegible]	.93	[illegible]	1.06	[illegible]	1.15	1.18
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12	12	[illegible]	[illegible]	12	[illegible]
TIME	[illegible]	[illegible]	[illegible]	2015	2030	2040	[illegible]	[illegible]	2138	[illegible]	[illegible]	[illegible]
DEC	.12	[illegible]	[illegible]	[illegible]	.28	.32	.35	[illegible]	[illegible]	.51	[illegible]	.79
DATE	[illegible]	30	[illegible]	[illegible]	31	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	1352	1304	1352	[illegible]	[illegible]	[illegible]	[illegible]	1306	1306	1306	[illegible]	1306
YEAR	[illegible]	*1.20	1.35	[illegible]	1.58	1.70	[illegible]	1.75	[illegible]	[illegible]	[illegible]	2.02
MONTH	[illegible]	05	05	05	[illegible]	05	05	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

JAN	[illegible]	.02	[illegible]	.04	.06	[illegible]	.11	[illegible]	.16	[illegible]	.20	.22
DATE	[illegible]	07	[illegible]	[illegible]	[illegible]	[illegible]	07	[illegible]	[illegible]	[illegible]	07	07
TIME	[illegible]	2100	[illegible]	2100	[illegible]	2100	2100	2100	[illegible]	1800	[illegible]	[illegible]
FEB	[illegible]	.02	.03	[illegible]	[illegible]	.05	.05	.05	[illegible]	.07	.07	[illegible]
DATE	10	[illegible]	10	[illegible]	10	10	10	10	10	10	10	10
TIME	[illegible]	1145	[illegible]	[illegible]	[illegible]	[illegible]	1150	[illegible]	1300	1300	1300	1300
MAR	.04	.06	[illegible]	.10	.11	.13	.17	.20	.23	.24	.28	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	23	23	[illegible]	[illegible]	[illegible]	23	[illegible]	24
TIME	0422	0422	[illegible]	[illegible]	0422	[illegible]	[illegible]	0422	0422	0422	[illegible]	[illegible]
APR	[illegible]	.29	.32	.38	.53	.53	.53	.53	[illegible]	[illegible]	.53	[illegible]
DATE	24	[illegible]	[illegible]	[illegible]	24	[illegible]	[illegible]	24	24	24	[illegible]	17
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1820	1820	1820	1820	1820	1820	0349
MAY	[illegible]	.07	[illegible]	.16	.16	[illegible]	.28	[illegible]	.40	[illegible]	[illegible]	[illegible]
DATE	27	22	[illegible]	[illegible]	[illegible]	10	[illegible]	[illegible]	[illegible]	[illegible]	11	[illegible]
TIME	[illegible]	0555	[illegible]	0605	2350	[illegible]	2315	2345	[illegible]	0010	[illegible]	[illegible]
JUN	.17	[illegible]	[illegible]	.32	[illegible]	.33	.33	[illegible]	.45	.48	[illegible]	[illegible]
DATE	11	[illegible]	11	[illegible]	11	[illegible]	[illegible]	17	17	17	17	17
TIME	[illegible]	1525	1530	[illegible]	1545	1600	1600	0242	0245	0245	0303	[illegible]
JUL	.20	.30	.30	[illegible]	.31	.32	.32	.32	.32	[illegible]	[illegible]	.32
DATE	31	[illegible]	[illegible]	[illegible]	31	31	31	[illegible]	31	31	[illegible]	[illegible]
TIME	1405	[illegible]	1410	1410	1430	1445	1445	1445	1445	1445	[illegible]	1445
AUG	.10	.19	.22	.24	[illegible]	.30	.33	.34	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	20	[illegible]	27	[illegible]	27	[illegible]	[illegible]	27	27	27	27
TIME	1715	[illegible]	[illegible]	2030	2039	2045	2045	2045	[illegible]	[illegible]	2245	2235
SEP	.11	[illegible]	[illegible]	.19	.21	.22	.23	.24	[illegible]	.25	[illegible]	.28
DATE	10	[illegible]	[illegible]	[illegible]	[illegible]	17	17	[illegible]	17	[illegible]	[illegible]	17
TIME	[illegible]	[illegible]	[illegible]	2045	2050	2105	2120	2140	[illegible]	2220	[illegible]	[illegible]
OCT	.06	[illegible]	.10	.12	[illegible]	.14	[illegible]	.14	.14	.14	.14	[illegible]
DATE	13	[illegible]	[illegible]	13	[illegible]	13	[illegible]	[illegible]	13	13	[illegible]	[illegible]
TIME	[illegible]	1955	2003	2009	2018	2016	2018	2018	2018	[illegible]	[illegible]	[illegible]
NOV	.01	.01	[illegible]	[illegible]	.02	.03	.04	.04	.05	.06	.07	.07
DATE	[illegible]	[illegible]	[illegible]	19	19	[illegible]	[illegible]	19	19	[illegible]	19	19
TIME	1350	[illegible]	[illegible]	1350	[illegible]	1415	1430	1450	[illegible]	[illegible]	[illegible]	[illegible]
DEC	[illegible]	.02	.02	.02	.02	[illegible]	.02	.02	.02	.03	.03	.03
DATE	[illegible]	12	[illegible]	12	12	12	[illegible]	[illegible]	[illegible]	12	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	1130	[illegible]	1130	1130	[illegible]	1130	1145	1145	[illegible]
YEAR	[illegible]	.31	.32	[illegible]	[illegible]	[illegible]	[illegible]	.53	.53	.53	[illegible]	[illegible]
MONTH	[illegible]	[illegible]	04	[illegible]	04	[illegible]	[illegible]	04	[illegible]	[illegible]	[illegible]	04

MAXIMUM SHORT DURATION PRECIPITATION

YEAR 197[illegible]

Maximum precipitation in inches (5 to 180 minutes)

BRISTOL, TENNESSEE

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.15	.23	[illegible]	[illegible]	.40	.46	.53	.56	[illegible]	[illegible]	[illegible]	.59
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10	10	10	[illegible]	10	10	11
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2230	2235	[illegible]	[illegible]	2340	[illegible]
FEB	[illegible]	[illegible]	[illegible]	[illegible]	.15	.20	.23	.25	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	02	02	[illegible]	02	[illegible]	[illegible]	02
TIME	[illegible]	0224	[illegible]	[illegible]	0243	[illegible]	0300	[illegible]	0340	[illegible]	[illegible]	[illegible]
MAR	[illegible]	[illegible]	[illegible]	[illegible]	.32	[illegible]	.56	.69	.72	[illegible]	1.05	1.13
DATE	[illegible]	[illegible]	[illegible]	[illegible]	22	29	[illegible]	[illegible]	[illegible]	[illegible]	13	13
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
APR	[illegible]	.35	[illegible]	[illegible]	.52	.70	.86	[illegible]	.89	[illegible]	[illegible]	1.19
DATE	[illegible]	[illegible]	[illegible]	[illegible]	25	[illegible]	25	[illegible]	[illegible]	25	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0050	[illegible]	[illegible]	0140	[illegible]	0235	[illegible]
MAY	.15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.85	[illegible]	[illegible]	1.10	1.16	1.20
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	08	[illegible]	[illegible]	08	08	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2038	2058	[illegible]	2138	[illegible]	[illegible]
JUN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.35	.35	.35	.35	.39	.41	.43
DATE	[illegible]	8	[illegible]	[illegible]	[illegible]	18	18	[illegible]	[illegible]	01	01	01
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0200	[illegible]	[illegible]
JUL	[illegible]	[illegible]	[illegible]	[illegible]	.55	.55	.55	.55	[illegible]	.55	.55	.55
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	08	[illegible]	08	[illegible]	08
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1828	[illegible]	1858	1918	1938	[illegible]	2028	[illegible]
AUG	.21	[illegible]	[illegible]	[illegible]	[illegible]	.34	[illegible]	.48	.52	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	04	[illegible]	[illegible]	05	[illegible]	[illegible]	[illegible]	05
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2030	2050	2110	2130	2200	[illegible]
SEP	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.75	[illegible]	.80	[illegible]	.81
DATE	[illegible]	12	[illegible]	[illegible]	[illegible]	12	[illegible]	[illegible]	[illegible]	12	12	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1220	1235	[illegible]	1310	[illegible]	1350	1420	[illegible]
OCT	.12	[illegible]	.22	.25	.32	[illegible]	.38	[illegible]	.41	[illegible]	[illegible]	.45
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16	16	[illegible]	16	16	16
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1359	[illegible]	1440	1500	1530	1550
NOV	.11	[illegible]	[illegible]	[illegible]	.32	.37	.55	.64	[illegible]	[illegible]	[illegible]	1.26
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12	[illegible]	12	12	12	[illegible]
TIME	[illegible]	1155	[illegible]	1158	1201	[illegible]	1147	1158	1201	1207	1313	1307
DEC	.10	[illegible]	.17	[illegible]	[illegible]	.21	[illegible]	[illegible]	.31	.32	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31	31	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1458	1513	[illegible]	1302	[illegible]	[illegible]	1315	[illegible]
YEAR	[illegible]	[illegible]	.52	[illegible]	.59	.71	[illegible]	.94	1.04	[illegible]	[illegible]	[illegible]
MONTH	[illegible]	07	[illegible]	[illegible]	09	05	[illegible]	05	[illegible]	05	[illegible]	[illegible]

CHATTANOOGA, TENNESSEE

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.24	[illegible]	[illegible]	.57	[illegible]	[illegible]	[illegible]	[illegible]	.84	.91	1.01	1.06
DATE	[illegible]	[illegible]	10	[illegible]	10	[illegible]	10	[illegible]	[illegible]	10	10	[illegible]
TIME	1837	[illegible]	[illegible]	[illegible]	1834	1856	1858	1831	[illegible]	2020	2020	2020
FEB	[illegible]	.29	.33	.35	.37	[illegible]	.43	[illegible]	.47	[illegible]	.58	.63
DATE	[illegible]	23	23	23	[illegible]	[illegible]	23	[illegible]	[illegible]	[illegible]	[illegible]	01
TIME	[illegible]	[illegible]	[illegible]	1956	2004	[illegible]	[illegible]	[illegible]	1715	0035	[illegible]	0729
MAR	[illegible]	.28	[illegible]	.31	.36	[illegible]	.65	[illegible]	.90	[illegible]	1.14	1.26
DATE	[illegible]	[illegible]	[illegible]	22	[illegible]	[illegible]	[illegible]	[illegible]	29	[illegible]	29	29
TIME	0853	[illegible]	[illegible]	0906	0916	[illegible]	[illegible]	0800	0800	[illegible]	[illegible]	0900
APR	[illegible]	[illegible]	.12	[illegible]	.15	[illegible]	[illegible]	.23	[illegible]	.26	.26	.26
DATE	[illegible]	[illegible]	25	25	[illegible]	[illegible]	09	[illegible]	[illegible]	09	09	09
TIME	2058	0811	[illegible]	0821	[illegible]	[illegible]	1358	1349	[illegible]	1349	[illegible]	[illegible]
MAY	[illegible]	[illegible]	[illegible]	[illegible]	.79	[illegible]	[illegible]	[illegible]	1.13	1.13	[illegible]	1.13
DATE	[illegible]	5	29	29	[illegible]	29	29	[illegible]	[illegible]	29	29	[illegible]
TIME	1356	[illegible]	[illegible]	1415	[illegible]	1422	1438	1458	1508	1508	1508	[illegible]
JUN	.34	.51	[illegible]	.76	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.87	.87	.87
DATE	[illegible]	18	[illegible]	[illegible]	[illegible]	18	18	[illegible]	[illegible]	[illegible]	18	[illegible]
TIME	[illegible]	1421	[illegible]	1426	[illegible]	[illegible]	[illegible]	[illegible]	1446	1446	1446	1446
JUL	.23	[illegible]	[illegible]	.52	.56	.56	.57	.57	.57	.57	.57	.57
DATE	[illegible]	24	24	[illegible]	[illegible]	24	24	[illegible]	24	24	24	[illegible]
TIME	1044	[illegible]	1052	[illegible]	[illegible]	1112	1127	1127	1127	1127	1127	1127
AUG	M	M	M	M	M	M	M	M	M	M	M	M
DATE												
TIME												
SEP	.29	.57	[illegible]	.99	1.16	1.47	[illegible]	1.78	[illegible]	2.00	[illegible]	2.21
DATE	23	23	[illegible]	23	23	23	[illegible]	23	[illegible]	23	23	23
TIME	1615	[illegible]	1615	1615	1615	1617	1617	1617	1617	1634	[illegible]	1715
OCT	.22	[illegible]	[illegible]	.47	.50	[illegible]	.62	.77	.87	[illegible]	1.24	1.37
DATE	08	[illegible]	[illegible]	08	[illegible]	08	08	08	08	[illegible]	08	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	0952	0952	[illegible]	0952	0952	[illegible]	0952	0952
NOV	.13	.21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.61	[illegible]	[illegible]	[illegible]	[illegible]
DATE	31	31	[illegible]	31	[illegible]	31	31	12	[illegible]	12	12	[illegible]
TIME	[illegible]	1637	[illegible]	[illegible]	1657	[illegible]	1727	[illegible]	0216	0220	[illegible]	0300
DEC	[illegible]	[illegible]	.28	.35	.38	[illegible]	.46	.47	.48	.49	.49	.50
DATE	[illegible]	15	[illegible]	15	15	[illegible]	[illegible]	15	15	15	[illegible]	15
TIME	[illegible]	2036	[illegible]	2035	2035	2035	2045	2045	2120	2140	2210	2240
YEAR	[illegible]	.57	[illegible]	.99	1.16	1.47	1.56	1.78	1.88	2.00	2.14	2.21
MONTH	[illegible]	09	09	09	09	09	09	09	09	09	[illegible]	[illegible]

KNOXVILLE, TENNESSEE

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.13	[illegible]	.18	.21	.25	.32	.37	.40	.44	.50	.59	.72
DATE	25	25	25	25	25	25	25	25	12	10	25	25
TIME	0550	[illegible]	0605	0610	0620	0630	0630	0630	1240	0935	0630	0630
FEB	.07	.13	.16	.20	.28	.33	.36	.42	.45	.50	.55	.55
DATE	17	17	17	17	17	17	17	17	17	17	12	12
TIME	[illegible]	0107	0112	0117	0127	[illegible]	0157	[illegible]	0237	0215	0345	0415
MAR	.20	.28	.30	.33	.41	[illegible]	.63	.78	.85	.90	1.10	[illegible]
DATE	07	07	07	07	29	29	29	29	29	29	29	29
TIME	1330	1330	1330	1330	[illegible]	1940	1955	[illegible]	2035	[illegible]	2125	2215
APR	.18	[illegible]	[illegible]	.29	.37	[illegible]	.45	.62	[illegible]	.66	.70	.73
DATE	25	25	25	25	19	19	19	02	02	02	02	02
TIME	0835	[illegible]	0845	0850	[illegible]	0705	0705	2338	2338	2338	2338	2338
MAY	.15	[illegible]	.38	.42	.42	.42	.42	.42	.42	.42	.48	.51
DATE	31	31	31	31	31	[illegible]	31	31	31	31	31	31
TIME	1415	1415	1415	1415	1415	1415	1415	1415	1415	1415	1615	1630
JUN	.13	.22	.25	.37	.44	.47	.47	.47	.47	.47	.47	.47
DATE	15	15	12	12	12	12	12	12	12	12	12	12
TIME	1840	1845	0852	0900	0910	[illegible]	0915	0918	0928	0948	1018	1048
JUL	.18	[illegible]	.35	.43	.62	.65	.70	.71	.71	[illegible]	.83	.88
DATE	30	17	17	17	17	17	17	17	17	17	08	08
TIME	[illegible]	1923	1928	1933	1943	1958	2000	2020	2040	2100	2015	2045
AUG	.18	.25	.26	.27	.28	.29	.29	.29	.29	.29	.32	.35
DATE	17	17	17	17	17	17	17	17	17	17	10	10
TIME	1705	[illegible]	1715	1720	1730	1745	1800	1820	1840	1900	0930	1000
SEP	.12	[illegible]	.20	.22	.25	.27	.28	.30	.31	.40	.43	.47
DATE	22	22	22	22	22	22	22	22	22	22	22	22
TIME	1230	1235	1235	1235	1235	1235	1235	1322	1720	1740	1740	1740
OCT	.12	.14	.16	.18	.25	.35	.47	.54	.64	.67	.72	.77
DATE	16	16	16	16	08	08	08	08	08	08	08	08
TIME	[illegible]	1115	1120	1125	1035	1050	1100	1100	[illegible]	1140	1215	1215
NOV	.13	.17	.23	.28	.45	.53	.57	.63	.67	.73	.78	.87
DATE	12	12	12	12	12	12	12	12	12	12	12	12
TIME	0945	[illegible]	0935	0940	0950	1000	1015	1035	1030	[illegible]	1145	1215
DEC	.14	.21	.24	.28	.32	.34	.35	.35	.35	.38	[illegible]	.46
DATE	15	15	15	15	15	15	15	15	15	15	15	15
TIME	1935	1940	1945	1950	2000	2015	2030	2050	2110	2130	[illegible]	2230
YEAR	.20	.30	.38	.43	.62	.65	.70	.78	.85	.90	1.10	1.18
MONTH	03	07+	05	07	07	07	07	03	03	03	03	03

MEMPHIS, TENNESSEE

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.28	[illegible]	[illegible]	[illegible]	.63	[illegible]	.68	[illegible]	.74	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31	[illegible]	[illegible]	[illegible]	10	[illegible]	10
TIME	[illegible]	[illegible]	[illegible]	1549	1559	[illegible]	1629	[illegible]	[illegible]	0305	0316	0356
FEB	[illegible]	[illegible]	[illegible]	[illegible]	.45	[illegible]	.75	.82	.86	[illegible]	[illegible]	.89
DATE	[illegible]	[illegible]	22	[illegible]	[illegible]	[illegible]	[illegible]	22	[illegible]	[illegible]	[illegible]	22
TIME	[illegible]	[illegible]	2110	2115	[illegible]	[illegible]	[illegible]	[illegible]	2211	[illegible]	2301	[illegible]
MAR	[illegible]	[illegible]	.87	[illegible]	1.19	1.35	[illegible]	1.46	1.55	1.61	1.69	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12	[illegible]	12	[illegible]	12	[illegible]	12
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0829	[illegible]	0910	0930	[illegible]	1030
APR	[illegible]	[illegible]	[illegible]	[illegible]	.76	[illegible]	[illegible]	.81	[illegible]	.89	[illegible]	.96
DATE	[illegible]	[illegible]	27	[illegible]	[illegible]	[illegible]	[illegible]	09	09	[illegible]	[illegible]	09
TIME	[illegible]	[illegible]	[illegible]	[illegible]	0354	[illegible]	[illegible]	[illegible]	[illegible]	0912	[illegible]	1012
MAY	.80	[illegible]	[illegible]	1.40	1.50	1.59	1.84	2.00	2.04	2.07	2.09	2.09
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11	11	11	11	11	11	[illegible]
TIME	1412	[illegible]	[illegible]	1505	1515	[illegible]	[illegible]	[illegible]	1625	1645	1714	[illegible]
JUN	[illegible]	[illegible]	.40	[illegible]	.68	.80	.83	.83	[illegible]	.84	.85	[illegible]
DATE	[illegible]	27	[illegible]	27	27	27	27	27	[illegible]	[illegible]	[illegible]	27
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1505	1528	[illegible]	[illegible]	[illegible]	[illegible]
JUL	[illegible]	[illegible]	.72	[illegible]	.73	[illegible]	.73	.73	.73	.73	[illegible]	.73
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	1237	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1425	1455	1525
AUG	[illegible]	[illegible]	.42	.50	.58	[illegible]	.72	.74	[illegible]	.75	.75	[illegible]
DATE	[illegible]	[illegible]	[illegible]	03	03	03	[illegible]	03	03	[illegible]	[illegible]	03
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1736	[illegible]	1828	[illegible]
SEP	[illegible]	[illegible]	.90	[illegible]	1.05	1.05	1.05	[illegible]	1.05	1.09	1.09	1.09
DATE	[illegible]	[illegible]	[illegible]	19	19	19	19	[illegible]	[illegible]	[illegible]	19	19
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2115	[illegible]	2155	2215	2245	2315
OCT	[illegible]	[illegible]	.22	.23	.28	.34	[illegible]	[illegible]	.50	.61	.76	.84
DATE	[illegible]	[illegible]	[illegible]	[illegible]	25	[illegible]	25	[illegible]	[illegible]	25	25	25
TIME	0201	[illegible]	[illegible]	[illegible]	[illegible]	0235	0250	0310	[illegible]	0159	[illegible]	[illegible]
NOV	[illegible]	[illegible]	[illegible]	[illegible]	.54	[illegible]	[illegible]	[illegible]	.88	[illegible]	1.21	[illegible]
DATE	[illegible]	30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	30	[illegible]	[illegible]	30	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0031	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0745
DEC	[illegible]	[illegible]	[illegible]	[illegible]	.35	[illegible]	[illegible]	[illegible]	.50	.56	.63	.71
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15	[illegible]	15	15	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	1140	[illegible]	[illegible]	1218	[illegible]	[illegible]	1318	[illegible]	1418
YEAR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.59	[illegible]	2.00	[illegible]	[illegible]	2.09	2.09
MONTH	[illegible]	[illegible]	[illegible]	05	[illegible]	[illegible]	[illegible]	05	[illegible]	[illegible]	[illegible]	[illegible]

NASHVILLE, TENNESSEE

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	.35	.37	[illegible]	[illegible]	.62	[illegible]	.74	.80	1.03	1.08
DATE	[illegible]	10	10	[illegible]	[illegible]	[illegible]	10	[illegible]	[illegible]	10	[illegible]	10
TIME	0617	[illegible]	[illegible]	0632	0642	[illegible]	0712	[illegible]	0752	0812	[illegible]	0912
FEB	[illegible]	[illegible]	[illegible]	[illegible]	.64	.77	[illegible]	[illegible]	.92	.98	1.07	[illegible]
DATE	[illegible]	23	[illegible]	[illegible]	23	23	23	[illegible]	[illegible]	23	[illegible]	23
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1317	1332	1348	1414	1432	[illegible]	1445
MAR	[illegible]	.43	.55	.62	.83	1.01	1.08	1.20	1.25	[illegible]	[illegible]	[illegible]
DATE	[illegible]	12	[illegible]	[illegible]	12	[illegible]	29	[illegible]	29	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	0615	0620	0616	0625	0225	0325	0345	0345	0345	[illegible]
APR	.30	[illegible]	[illegible]	[illegible]	.46	[illegible]	[illegible]	[illegible]	.60	.60	.62	.87
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19	[illegible]	15	19	[illegible]	30	30
TIME	0021	[illegible]	0031	[illegible]	0046	0101	[illegible]	0136	0156	0216	0930	1000
MAY	.21	.31	[illegible]	[illegible]	[illegible]	.74	.90	1.09	1.40	1.57	[illegible]	1.88
DATE	[illegible]	15	[illegible]	16	[illegible]	[illegible]	16	16	[illegible]	[illegible]	[illegible]	16
TIME	2029	[illegible]	[illegible]	0606	0615	[illegible]	[illegible]	0706	0640	0700	0730	[illegible]
JUN	[illegible]	.21	[illegible]	.30	.43	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.82	.82
DATE	[illegible]	[illegible]	[illegible]	15	[illegible]	[illegible]	15	15	[illegible]	[illegible]	[illegible]	15
TIME	[illegible]	0515	[illegible]	0515	0515	[illegible]	0545	0605	[illegible]	0645	0645	0645
JUL	.65	.95	1.15	1.35	1.90	[illegible]	[illegible]	2.15	2.15	[illegible]	[illegible]	2.22
DATE	[illegible]	[illegible]	[illegible]	[illegible]	19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19	19
TIME	[illegible]	1425	[illegible]	[illegible]	1440	[illegible]	1511	1531	[illegible]	[illegible]	1641	1711
AUG	[illegible]	[illegible]	[illegible]	[illegible]	.87	[illegible]	1.15	1.21	[illegible]	1.25	1.27	1.27
DATE	[illegible]	30	[illegible]	[illegible]	[illegible]	30	[illegible]	[illegible]	[illegible]	[illegible]	30	30
TIME	[illegible]	[illegible]	1040	1645	1705	1720	1735	1755	1815	1835	1905	1935
SEP	.20	[illegible]	.45	.47	.50	.55	[illegible]	.68	.72	.72	.74	[illegible]
DATE	[illegible]	19	19	19	20	20	20	[illegible]	[illegible]	20	23	[illegible]
TIME	2340	[illegible]	[illegible]	2355	0005	0020	0035	0055	0115	[illegible]	1450	1520
OCT	.12	[illegible]	.25	.28	.33	[illegible]	.64	[illegible]	1.03	1.17	1.40	[illegible]
DATE	17	17	17	17	17	17	[illegible]	[illegible]	17	17	17	[illegible]
TIME	[illegible]	[illegible]	[illegible]	0447	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0447	[illegible]	0447
NOV	[illegible]	.23	[illegible]	.28	.35	[illegible]	.50	[illegible]	[illegible]	.70	.73	.73
DATE	10	30	[illegible]	30	[illegible]	30	30	[illegible]	[illegible]	30	[illegible]	30
TIME	[illegible]	[illegible]	1120	1125	1135	1150	1205	[illegible]	[illegible]	1305	[illegible]	1335
DEC	[illegible]	[illegible]	[illegible]	.18	.22	.28	[illegible]	[illegible]	.43	.45	.50	.55
DATE	31	31	[illegible]	31	31	31	[illegible]	[illegible]	31	[illegible]	31	31
TIME	[illegible]	[illegible]	0915	[illegible]	0930	[illegible]	[illegible]	1020	1040	1100	1130	1200
YEAR	[illegible]	[illegible]	1.15	1.35	1.90	[illegible]	2.14	2.15	2.15	[illegible]	2.16	2.22
MONTH	[illegible]	07	07	[illegible]	07	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

ABILENE, TEXAS

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.03	.03	.03	.04	.05	.05	.05	.05	.05	.05	.05	.05
DATE	24	24	24	24	24	24	24	24	24	24	24	24
TIME	0117	0139	0139	0139	0139	0139	0139	0139	0139	0139	0139	0139
FEB	.10	.14	.17	.24	.28	.44	.52	.61	.65	.71	.80	.80
DATE	01	01	01	[illegible]	01	01	01	[illegible]	01	[illegible]	01	01
TIME	0338	0344	0344	0414	0426	0418	0431	0449	[illegible]	[illegible]	0556	0556
MAR	.13	[illegible]	.21	.25	.27	.32	.42	.51	.53	.58	.61	.85
DATE	28	28	28	28	28	28	28	28	29	28	28	28
TIME	0036	[illegible]	0128	0130	0303	[illegible]	0125	0130	0138	0308	0241	0313
APR	[illegible]	.09	[illegible]	.10	.13	.13	.14	[illegible]	.14	.14	[illegible]	.16
DATE	07	07	07	07	07	07	07	07	07	07	07	07
TIME	1946	1946	1946	1946	1946	1946	1946	1946	1946	1946	1946	0502
MAY	.40	.73	.80	.87	.90	.92	.92	.92	.92	.92	.92	.92
DATE	09	09	09	09	09	09	09	09	09	09	09	09
TIME	1958	2004	2005	2010	2022	2035	2035	2035	2035	2035	2035	2035
JUN	.38	[illegible]	.81	1.03	1.22	[illegible]	1.40	1.40	1.40	1.40	1.40	[illegible]
DATE	09	09	09	09	09	09	09	09	09	09	09	10
TIME	[illegible]	2129	2130	2135	2138	2151	2205	2225	2245	2305	2335	0005
JUL	.15	.28	.30	.38	.46	.49	.52	.53	.56	.58	.61	.62
DATE	[illegible]	03	03	03	03	3	3	03	03	03	03	03
TIME	1535	1545	1545	1550	1600	[illegible]	1615	1630	1700	1705	1745	1815
AUG	.28	[illegible]	[illegible]	.74	.90	.91	.93	.96	1.00	1.02	1.03	1.04
DATE	[illegible]	15	[illegible]	15	15	15	15	15	15	15	15	[illegible]
TIME	1533	1537	1543	1543	1548	1603	1618	1638	1658	1718	1748	[illegible]
SEP	.14	[illegible]	.19	.20	.23	.28	.32	.37	.41	.44	.46	.46
DATE	21	21	21	21	21	12	12	12	12	12	12	12
TIME	0345	0349	0355	0400	0410	1350	1406	1412	1412	1412	1432	1440
OCT	.16	.23	.24	.24	.26	.26	.26	.26	.26	.26	.29	.35
DATE	22	22	22	22	22	22	22	22	22	22	22	22
TIME	1514	1518	1520	1520	1520	1520	1520	1520	1520	1520	1520	1520
NOV	.17	.29	.39	.45	.65	.80	.93	1.07	1.12	1.15	1.25	1.34
DATE	02	02	02	02	02	02	02	02	02	02	02	02
TIME	0150	[illegible]	0156	0156	0159	0210	0226	0232	0252	0312	0342	0412
DEC	.04	.07	.09	.11	.13	.17	.21	.26	.29	.30	.33	.35
DATE	24	24	24	24	24	24	24	24	24	24	24	24
TIME	1025	1025	1025	1025	1025	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1213	1228
YEAR	.41	.73	.81	1.03	1.22	1.33	1.40	1.40	1.40	1.40	1.40	1.44
MONTH	05	05	[illegible]	06	06	06	06	06	06	06	06	06

AMARILLO, TEXAS

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	.02	[illegible]	.03	.05	.05	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	02	[illegible]	02	[illegible]	02
TIME	[illegible]	[illegible]	[illegible]	0050	0100	[illegible]	0130	[illegible]	[illegible]	[illegible]	[illegible]	0330
FEB	[illegible]	[illegible]	[illegible]	.08	[illegible]	[illegible]	[illegible]	[illegible]	.21	[illegible]	[illegible]	.29
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	0026	0032	[illegible]	[illegible]	[illegible]	0140	[illegible]	[illegible]	0300
MAR	[illegible]	[illegible]	[illegible]	[illegible]	.10	[illegible]	.15	[illegible]	[illegible]	.20	.21	.25
DATE	[illegible]	[illegible]	[illegible]	[illegible]	09	09	[illegible]	[illegible]	09	09	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0915	[illegible]	0918	0918	0918	[illegible]
APR	.09	[illegible]	[illegible]	.15	[illegible]	.15	[illegible]	.17	.20	.23	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	07	[illegible]	[illegible]	[illegible]	[illegible]	10	[illegible]	[illegible]
TIME	1252	[illegible]	[illegible]	[illegible]	[illegible]	1332	1347	[illegible]	[illegible]	1530	[illegible]	1615
MAY	.75	[illegible]	[illegible]	[illegible]	.52	[illegible]	[illegible]	.83	[illegible]	.83	[illegible]	.83
DATE	22	22	22	22	22	[illegible]	22	22	22	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	0101	[illegible]	0132	[illegible]	0152	0212	[illegible]	[illegible]	0332
JUN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.74	[illegible]	[illegible]	[illegible]	[illegible]	.96	.98
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	09	09
TIME	[illegible]	[illegible]	[illegible]	[illegible]	2035	2050	2100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
JUL	.25	[illegible]	[illegible]	.78	[illegible]	.96	[illegible]	1.00	1.02	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	11	11	[illegible]	11	[illegible]	[illegible]	[illegible]	[illegible]
TIME	0235	[illegible]	[illegible]	[illegible]	[illegible]	0311	0328	[illegible]	0128	[illegible]	0128	0102
AUG	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.66	1.70	[illegible]	1.76	[illegible]	1.87	1.87
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2358	[illegible]	[illegible]	[illegible]	[illegible]	0158
SEP	[illegible]	[illegible]	[illegible]	[illegible]	.10	.12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	21	[illegible]	[illegible]	21	21	21	21	21	[illegible]	21	21
TIME	[illegible]	[illegible]	[illegible]	0252	[illegible]	0310	0325	0345	0405	0425	[illegible]	0525
OCT	[illegible]	[illegible]	.28	[illegible]	.31	[illegible]	.32	.32	[illegible]	.33	.33	.33
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31	31	[illegible]	31	31	[illegible]	31
TIME	[illegible]	[illegible]	2144	[illegible]	2152	2207	[illegible]	[illegible]	2302	[illegible]	2302	2302
NOV	.11	[illegible]	.21	.24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.54	[illegible]	.62
DATE	[illegible]	19	[illegible]	19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19	19	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1525	1540	1555	1615	[illegible]	[illegible]	1725	[illegible]
DEC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.02	[illegible]	.03	.03	[illegible]	.05	.06
DATE	[illegible]	[illegible]	[illegible]	[illegible]	28	[illegible]	[illegible]	[illegible]	[illegible]	28	[illegible]	28
TIME	[illegible]	[illegible]	[illegible]	0720	[illegible]	0745	0800	0820	[illegible]	[illegible]	0930	0930
YEAR	[illegible]	[illegible]	1.25	[illegible]	[illegible]	[illegible]	1.70	[illegible]	1.76	[illegible]	1.87	1.87
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	08	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

AUSTIN, TEXAS

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	.22	.23	.25	.25	[illegible]	[illegible]	.26	.30	.36	[illegible]
DATE	[illegible]	31	31	[illegible]	[illegible]	31	[illegible]	[illegible]	31	11	[illegible]	11
TIME	[illegible]	[illegible]	[illegible]	1642	[illegible]	[illegible]	1710	[illegible]	[illegible]	2332	2334	2331
FEB	.13	[illegible]	[illegible]	.25	[illegible]	[illegible]	.35	.37	.38	.43	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	02	[illegible]	[illegible]	[illegible]	[illegible]	02	02
TIME	0825	0827	0830	0836	0836	[illegible]	[illegible]	0847	0906	0926	[illegible]	0940
MAR	[illegible]	[illegible]	.17	[illegible]	.27	[illegible]	[illegible]	[illegible]	.32	.33	.37	.38
DATE	[illegible]	[illegible]	[illegible]	04	[illegible]	[illegible]	[illegible]	[illegible]	07	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	0639	[illegible]	[illegible]	[illegible]	[illegible]	0730	[illegible]	[illegible]	0716	[illegible]
APR	[illegible]	.56	[illegible]	[illegible]	[illegible]	1.13	[illegible]	1.25	1.25	1.26	1.26	1.27
DATE	[illegible]	[illegible]	[illegible]	28	[illegible]	[illegible]	28	[illegible]	28	[illegible]	[illegible]	[illegible]
TIME	0610	[illegible]	0618	0633	[illegible]	[illegible]	0704	0723	0744	0804	0834	0904
MAY	.51	[illegible]	1.27	[illegible]	2.18	[illegible]	2.66	3.12	[illegible]	[illegible]	3.46	[illegible]
DATE	[illegible]	23	[illegible]	[illegible]	[illegible]	23	[illegible]	[illegible]	[illegible]	[illegible]	23	[illegible]
TIME	1652	[illegible]	[illegible]	1702	1710	[illegible]	1731	[illegible]	[illegible]	[illegible]	1858	1928
JUN	[illegible]	[illegible]	.85	[illegible]	1.43	1.49	1.67	[illegible]	1.79	1.80	[illegible]	1.80
DATE	[illegible]	5	25	[illegible]	[illegible]	25	[illegible]	[illegible]	25	25	[illegible]	25
TIME	1740	[illegible]	1747	1750	1747	[illegible]	1803	1826	1840	1902	[illegible]	2002
JUL	[illegible]	[illegible]	.55	.77	1.00	1.21	1.33	1.41	[illegible]	1.61	1.62	[illegible]
DATE	[illegible]	[illegible]	[illegible]	11	11	11	[illegible]	[illegible]	[illegible]	11	11	[illegible]
TIME	[illegible]	[illegible]	[illegible]	0422	0432	0447	[illegible]	[illegible]	0539	0600	[illegible]	0659
AUG	.48	[illegible]	.83	[illegible]	[illegible]	1.21	[illegible]	[illegible]	1.27	[illegible]	1.30	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	27	[illegible]	[illegible]	[illegible]	27	27	27
TIME	1018	[illegible]	[illegible]	[illegible]	[illegible]	1056	[illegible]	[illegible]	1151	1211	1241	1305
SEP	.25	[illegible]	[illegible]	[illegible]	.88	[illegible]	1.31	[illegible]	1.97	[illegible]	[illegible]	2.41
DATE	[illegible]	[illegible]	[illegible]	20	20	[illegible]	[illegible]	[illegible]	20	20	[illegible]	20
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0938	[illegible]	1018	1038	[illegible]	1127
OCT	[illegible]	[illegible]	[illegible]	[illegible]	.23	[illegible]	[illegible]	.36	[illegible]	[illegible]	.67	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	22	22	[illegible]	[illegible]	25	25	[illegible]	25
TIME	[illegible]	[illegible]	[illegible]	1829	1839	1854	1400	1400	1336	1400	[illegible]	[illegible]
NOV	[illegible]	.10	.11	[illegible]	[illegible]	.17	[illegible]	[illegible]	.17	.17	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9	[illegible]	[illegible]	19	19
TIME	1858	[illegible]	[illegible]	1905	[illegible]	[illegible]	1943	[illegible]	1943	1943	1943	1943
DEC	.16	[illegible]	.27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.53	.64
DATE	[illegible]	[illegible]	24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24	24
TIME	1030	[illegible]	[illegible]	1042	[illegible]	1042	1053	1113	[illegible]	1154	1224	1258
YEAR	.51	[illegible]	[illegible]	1.61	2.18	2.32	2.66	3.12	[illegible]	3.43	[illegible]	3.51
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	05	05	05	05	05	[illegible]	05

BROWNSVILLE, TEXAS

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	.12	.14	.17	.23	.28	.30	[illegible]	.31	.31	[illegible]
DATE	[illegible]	22	22	22	22	22	22	22	22	22	22	22
TIME	[illegible]	[illegible]	1119	1124	1158	[illegible]	1158	1158	1158	[illegible]	1203	1233
FEB	[illegible]	.01	[illegible]	.02	.03	[illegible]	.03	.03	[illegible]	.04	[illegible]	.04
DATE	[illegible]	03	03	[illegible]	[illegible]	[illegible]	03	[illegible]	[illegible]	03	03	03
TIME	[illegible]	[illegible]	2348	2348	2348	[illegible]	2348	2348	2348	2348	2348	2348
MAR	[illegible]	.01	.01	[illegible]	[illegible]	.01	[illegible]	[illegible]	.01	.01	[illegible]	.01
DATE	17	17	17	17	17	17	17	17	17	17	17	17
TIME	0832	0837	0842	0848	0857	0912	0927	0947	1007	1027	1057	[illegible]
APR	.01	[illegible]	[illegible]	.01	.01	.01	.01	.01	.01	[illegible]	.01	.01
DATE	29	29	29	29	29	29	29	29	29	29	29	29
TIME	0110	0115	0120	0125	0135	0150	0205	0225	0245	0305	0335	0405
MAY	.32	.50	.55	.58	.59	.59	.59	.59	.59	.59	.59	.65
DATE	10	10	10	10	10	10	10	10	10	10	10	24
TIME	[illegible]	[illegible]	1605	1608	1608	1608	1608	1608	1608	1608	1608	1946
JUN	[illegible]	.55	.76	.91	[illegible]	.95	.95	.95	.95	.95	.95	1.29
DATE	03	03	03	03	03	03	03	03	03	03	03	03
TIME	[illegible]	0956	0952	0951	0951	0951	0951	0951	0951	0951	[illegible]	0951
JUL	.26	.47	.59	.71	.88	.98	1.11	1.15	1.25	1.30	1.33	1.42
DATE	14	14	13	13	13	13	13	13	13	13	13	13
TIME	[illegible]	1114	[illegible]	0446	[illegible]	0505	0520	0537	0510	0535	0605	0501
AUG	.47	[illegible]	[illegible]	1.43	1.77	2.10	[illegible]	2.36	2.38	2.39	2.44	2.62
DATE	05	05	05	5	05	05	05	05	05	05	05	31
TIME	1418	1414	1412	1412	1410	[illegible]	1408	1408	1408	1408	1408	1316
SEP	.37	.68	.90	1.08	1.15	1.34	1.40	[illegible]	[illegible]	1.52	1.57	[illegible]
DATE	07	07	07	07	07	08	07	07	07	07	07	07
TIME	0801	[illegible]	0807	0808	0814	0821	0830	0846	0903	0910	0910	0927
OCT	.02	.03	.04	.05	.06	.08	.09	.13	.15	.18	.22	.26
DATE	25	25	25	25	25	25	25	25	25	[illegible]	25	25
TIME	2049	2054	2059	2104	2114	2124	2144	2205	2215	2215	2150	2220
NOV	[illegible]	.24	.30	.34	.43	.52	.62	.76	.81	.92	1.05	1.15
DATE	17	17	17	17	17	17	17	7	17	17	17	17
TIME	1234	1234	1235	1239	1245	1300	1300	1308	1314	[illegible]	1320	1314
DEC	.31	[illegible]	[illegible]	.74	.83	.83	.83	.83	.83	[illegible]	1.11	1.12
DATE	24	24	24	24	24	24	24	24	24	24	24	24
TIME	1803	1807	1810	1815	1815	1815	1815	1815	1815	1938	[illegible]	2047
YEAR	.47	.91	[illegible]	1.43	1.77	2.10	[illegible]	2.36	2.38	2.39	2.44	2.62
MONTH	[illegible]	[illegible]	08	[illegible]	08	08	[illegible]	08	08	08	08	08

MAXIMUM SHORT DURATION PRECIPITATION

CORPUS CHRISTI, TEXAS

FORT WORTH, TEXAS

HOUSTON, TEXAS

[illegible]

MAXIMUM SHORT DURATION PRECIPITATION

Maximum precipitation in inches (5 to 180 minutes)

PORT ARTHUR, TEXAS

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.45	[illegible]	[illegible]	[illegible]	1.36	1.52	1.53	1.54	1.55	1.55	1.55	1.55
DATE	[illegible]	10	10	10	10	10	10	10	10	10	10	10
TIME	0542	0542	0542	0542	0542	0542	[illegible]	0617	0643	0643	0643	0643
FEB	[illegible]	[illegible]	.32	[illegible]	[illegible]	.35	.35	.37	.41	[illegible]	.51	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	04	04	04	04	04
TIME	[illegible]	[illegible]	0809	0809	0809	0809	0809	[illegible]	[illegible]	[illegible]	0212	0213
MAR	[illegible]	[illegible]	.47	.48	.49	.49	.50	.50	.50	.50	.50	.58
DATE	[illegible]	18	18	18	18	18	18	18	18	18	18	14
TIME	[illegible]	[illegible]	1341	1354	1400	1400	1430	1450	1510	1530	[illegible]	1108
APR	[illegible]	.34	[illegible]	.68	.74	.76	.79	.85	[illegible]	[illegible]	1.03	1.03
DATE	[illegible]	30	30	30	30	30	30	30	30	30	30	30
TIME	[illegible]	[illegible]	1325	1329	[illegible]	1348	1403	1422	1443	1501	1521	1521
MAY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.04	1.18	[illegible]	1.50	1.56	1.57	1.57
DATE	[illegible]	29	29	29	29	28	28	28	28	28	28	28
TIME	[illegible]	[illegible]	1516	[illegible]	1526	2125	2129	2200	[illegible]	[illegible]	[illegible]	2225
JUN	.35	[illegible]	.78	.82	.96	1.22	1.31	1.34	1.35	1.38	1.38	1.38
DATE	[illegible]	30	30	30	24	24	24	24	24	24	24	24
TIME	1443	1449	1449	[illegible]	0626	[illegible]	0643	0643	0702	0717	0717	0717
JUL	.45	[illegible]	.92	1.12	1.34	1.38	1.42	1.45	1.46	1.46	1.46	1.46
DATE	15	15	15	15	15	15	15	15	15	15	15	15
TIME	0947	0949	0953	0958	1003	[illegible]	1032	1042	[illegible]	1055	1055	1055
AUG	.42	.65	.80	.87	.93	1.05	1.20	1.23	[illegible]	1.25	[illegible]	1.32
DATE	[illegible]	05	05	05	05	04	04	04	04	04	04	04
TIME	[illegible]	[illegible]	[illegible]	1014	1019	1134	1149	1157	1213	1247	1320	1344
SEP	[illegible]	.33	.42	[illegible]	.55	.64	.69	.75	.78	.80	.80	.80
DATE	[illegible]	05	05	05	05	05	05	05	05	05	05	05
TIME	[illegible]	0741	0744	0745	0755	[illegible]	0817	0835	0850	0850	[illegible]	[illegible]
OCT	[illegible]	[illegible]	[illegible]	1.26	1.48	1.58	[illegible]	[illegible]	[illegible]	[illegible]	2.09	2.45
DATE	[illegible]	25	25	25	25	25	25	25	25	25	25	25
TIME	[illegible]	[illegible]	0843	0847	0851	0857	[illegible]	0921	[illegible]	[illegible]	1019	1103
NOV	.31	.46	[illegible]	.75	.88	.96	1.01	1.01	1.01	1.04	1.05	1.12
DATE	26	26	26	26	26	26	26	26	26	26	26	26
TIME	[illegible]	0739	[illegible]	[illegible]	[illegible]	0751	0757	0757	0757	0757	0757	0757
DEC	.15	[illegible]	.74	[illegible]	.82	.89	.93	[illegible]	1.31	[illegible]	1.46	1.49
DATE	[illegible]	06	06	06	06	06	06	06	06	06	06	06
TIME	[illegible]	[illegible]	0938	0941	[illegible]	0959	[illegible]	1043	[illegible]	1109	1109	[illegible]
YEAR	.45	[illegible]	1.19	1.26	1.48	1.58	1.77	[illegible]	1.96	[illegible]	2.09	2.45
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10	[illegible]	[illegible]	[illegible]	10

VICTORIA, TEXAS

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	.11	[illegible]	.11	.11	.11	[illegible]	.13	[illegible]	.17	.21
DATE	[illegible]	[illegible]	[illegible]	[illegible]	17	17	17	12	[illegible]	[illegible]	12	12
TIME	[illegible]	[illegible]	[illegible]	[illegible]	2140	2155	2210	0330	0350	[illegible]	0435	0455
FEB	M	M	M	M	M	M	M	M	M	M	M	M
DATE												
TIME												
MAR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.10	[illegible]	.12	.12	.13	.17
DATE	17	17	17	17	17	17	17	17	17	17	17	17
TIME	1102	[illegible]	[illegible]	1109	1120	1130	1148	[illegible]	[illegible]	1245	1315	1345
APR	.20	[illegible]	.23	[illegible]	[illegible]	.25	.25	.25	.27	.29	[illegible]	.30
DATE	14	14	14	14	14	14	14	14	14	14	14	14
TIME	[illegible]	[illegible]	[illegible]	[illegible]	0430	[illegible]	0500	0520	[illegible]	[illegible]	[illegible]	0700
MAY	.32	[illegible]	[illegible]	[illegible]	1.45	1.56	1.77	[illegible]	1.78	[illegible]	[illegible]	2.20
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	08	08	08	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2137	[illegible]	[illegible]	[illegible]	2145	[illegible]	2141
JUN	[illegible]	[illegible]	[illegible]	[illegible]	1.37	1.53	1.75	2.26	2.63	[illegible]	[illegible]	2.72
DATE	25	25	25	25	25	27	27	27	27	27	27	27
TIME	[illegible]	0947	0952	[illegible]	[illegible]	1700	1707	1729	1747	1807	1840	1907
JUL	[illegible]	[illegible]	[illegible]	[illegible]	.82	[illegible]	[illegible]	.97	.97	[illegible]	[illegible]	.97
DATE	[illegible]	04	04	[illegible]	[illegible]	[illegible]	04	[illegible]	04	04	04	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1300	1303	1303	[illegible]	[illegible]	[illegible]	1303
AUG	[illegible]	[illegible]	[illegible]	.59	.87	.99	[illegible]	1.10	1.14	[illegible]	[illegible]	1.20
DATE	[illegible]	03	03	[illegible]	03	03	03	03	03	03	03	03
TIME	[illegible]	1155	[illegible]	1205	1215	[illegible]	1235	1250	1312	1330	1414	1414
SEP	[illegible]	[illegible]	[illegible]	.51	[illegible]	.52	[illegible]	.53	.53	.53	.53	.53
DATE	[illegible]	[illegible]	[illegible]	10	10	10	10	10	10	10	10	[illegible]
TIME	[illegible]	[illegible]	[illegible]	1310	1325	1345	1355	1410	1425	1445	[illegible]	1445
OCT	.24	[illegible]	[illegible]	[illegible]	.89	1.06	1.23	1.27	1.29	1.34	1.35	1.38
DATE	15	15	15	15	15	15	15	15	15	15	15	15
TIME	1210	[illegible]	[illegible]	[illegible]	1235	1238	[illegible]	1310	1310	1315	1335	1400
NOV	[illegible]	[illegible]	.20	[illegible]	[illegible]	[illegible]	.27	.27	[illegible]	.27	.27	[illegible]
DATE	02	[illegible]	[illegible]	[illegible]	17	[illegible]	18	18	18	18	18	18
TIME	[illegible]	0134	[illegible]	0144	[illegible]	2253	[illegible]	[illegible]	0053	0112	[illegible]	[illegible]
DEC	[illegible]	.57	[illegible]	[illegible]	[illegible]	1.12	[illegible]	1.75	2.15	[illegible]	2.50	[illegible]
DATE	24	24	24	24	24	24	24	24	24	24	24	24
TIME	1344	[illegible]	[illegible]	[illegible]	1400	1415	1430	1453	1513	1530	[illegible]	[illegible]
YEAR	[illegible]	[illegible]	1.13	[illegible]	1.45	[illegible]	[illegible]	2.26	[illegible]	[illegible]	2.71	2.72
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	05	05	06	06	[illegible]	[illegible]	[illegible]

MILFORD, UTAH

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	[illegible]	[illegible]	.03	[illegible]	[illegible]	[illegible]	[illegible]	.05	.07	.07
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	09	[illegible]	[illegible]	[illegible]	[illegible]	09
TIME	[illegible]	[illegible]	1045	1045	[illegible]	1045	[illegible]	1045	1045	[illegible]	1045	1045
FEB	[illegible]	.04	.05	[illegible]	[illegible]	.05	.05	[illegible]	.07	[illegible]	[illegible]	.10
DATE	[illegible]	[illegible]	[illegible]	[illegible]	04	[illegible]	16+	[illegible]	[illegible]	[illegible]	16	[illegible]
TIME	[illegible]	[illegible]	[illegible]	2010	2010	[illegible]	2140	[illegible]	[illegible]	2140	2140	[illegible]
MAR	.05	[illegible]	[illegible]	[illegible]	[illegible]	.12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.21
DATE	[illegible]	[illegible]	[illegible]	22	22	[illegible]	[illegible]	05	[illegible]	[illegible]	05	05
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1230	1245	1305	1325	1345	1345	1345
APR	[illegible]	.04	.06	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.17	.17	[illegible]
DATE	[illegible]	[illegible]	17	[illegible]	17	[illegible]	17	[illegible]	17	17	17	17
TIME	[illegible]	[illegible]	[illegible]	[illegible]	0145	0157	0214	0229	0246	0317	0344	0410
MAY	[illegible]	[illegible]	.08	.09	.10	[illegible]	.17	.20	[illegible]	[illegible]	[illegible]	.27
DATE	[illegible]	27	27	27	27	[illegible]	27	[illegible]	27	27	27	27
TIME	[illegible]	[illegible]	1314	[illegible]	1318	[illegible]	1355	0850	[illegible]	[illegible]	1000	1030
JUN	[illegible]	.14	[illegible]	[illegible]	.18	.18	.18	.18	[illegible]	.20	.22	.23
DATE	[illegible]	16	[illegible]	[illegible]	[illegible]	[illegible]	18	18	[illegible]	18	[illegible]	18
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1203	[illegible]	1203	1203	1203	0055	[illegible]	0055
JUL	[illegible]	.22	[illegible]	[illegible]	.32	.34	.35	.40	[illegible]	[illegible]	[illegible]	.46
DATE	[illegible]	[illegible]	[illegible]	[illegible]	10	10	10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	2130	2130	[illegible]	2140	[illegible]	2205	2220	2240	[illegible]	[illegible]	2350	0020
AUG	.06	[illegible]	[illegible]	.12	.13	[illegible]	[illegible]	.20	.22	.22	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	20	20	[illegible]	[illegible]	20	[illegible]	[illegible]	20
TIME	1504	[illegible]	1512	1515	1529	1543	1515	1515	1543	1550	1530	[illegible]
SEP	[illegible]	[illegible]	[illegible]	[illegible]	.02	.02	.02	.02	[illegible]	.02	[illegible]	.02
DATE	[illegible]	[illegible]	[illegible]	09	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	09	09
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1545	[illegible]	1615	1635	1655	1715	1745	1815
OCT	.04	[illegible]	[illegible]	[illegible]	[illegible]	.08	.08	.09	.10	.10	.10	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	07	[illegible]	[illegible]	07	07	07
TIME	1305	[illegible]	[illegible]	[illegible]	1305	1305	1305	[illegible]	1305	[illegible]	1310	[illegible]
NOV	M	M	M	M	M	M	M	M	M	M	M	M
DATE												
TIME												
DEC	[illegible]	[illegible]	.03	[illegible]	.05	[illegible]	.07	.08	.10	[illegible]	.12	.15
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1355	[illegible]	1400	1400	1407	[illegible]	1407	1407
YEAR	[illegible]	.22	[illegible]	[illegible]	[illegible]	[illegible]	.35	[illegible]	[illegible]	[illegible]	.46	.46
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	07	[illegible]	07	[illegible]	[illegible]	07	[illegible]	07

SAN ANGELO, TEXAS

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.02	.02	.02	.02	.02	.02	.02	.03	.03	.04	.04	.05
DATE	23	23	23	23	23	23	23	23	23	24	24	24
TIME	2215	2220	[illegible]	[illegible]	2243	2258	2308	[illegible]	2356	0013	0040	0113
FEB	.04	[illegible]	.09	.09	.15	.22	.30	.32	.41	[illegible]	.61	.62
DATE	01	01	01	01	01	01	01	01	01	01	01	01
TIME	[illegible]	0155	[illegible]	0205	0215	[illegible]	0245	0305	0325	0345	0415	0445
MAR	.05	.09	.09	.09	.09	.09	.09	.09	.09	.09	.09	.09
DATE	11	11	11	11	11	11	11	11	11	11	11	11
TIME	2244	2249	2249	2249	2249	2249	2249	2249	2249	2249	2249	2249
APR	.14	.25	.39	.48	.61	.62	.64	.65	.67	.67	.67	.67
DATE	07	07	07	07	07	07	07	07	07	07	07	07
TIME	0713	0720	0715	[illegible]	0730	0745	0800	0820	0840	0840	0840	0840
MAY	.32	.44	.62	[illegible]	1.22	1.34	1.35	1.36	1.42	1.44	1.50	1.50
DATE	10	10	10	10	10	10	10	10	10	10	10	10
TIME	0110	[illegible]	0103	0108	0107	0122	0137	[illegible]	0217	0237	0307	0307
JUN	.45	.57	.68	[illegible]	.72	.77	.95	.98	.98	.99	.99	.99
DATE	27	27	27	27	27	27	27	27	27	27	27	27
TIME	1603	[illegible]	1608	1613	1623	[illegible]	1653	1713	1733	1753	1753	1753
JUL	.19	[illegible]	.35	.54	.67	.75	.81	1.23	1.39	1.47	1.62	1.79
DATE	17	17	17	17	17	17	17	17	17	17	17	17
TIME	1250	[illegible]	1250	1345	1355	[illegible]	1425	1350	1407	1425	1350	1420
AUG	[illegible]	[illegible]	.16	.18	[illegible]	[illegible]	[illegible]	.20	[illegible]	.20	.20	.21
DATE	27	27	27	27	27	27	27	27	27	27	27	27
TIME	1440	1440	1440	1445	1455	1455	1455	1455	1455	1455	1455	[illegible]
SEP	.12	[illegible]	[illegible]	.30	.36	[illegible]	.42	.46	.50	.52	.53	.53
DATE	12	12	12	12	12	12	12	12	12	12	12	12
TIME	0909	[illegible]	0913	0925	0930	0945	1000	1018	1038	1059	1120	1120
OCT	.06	.10	.12	[illegible]	.20	[illegible]	.31	.38	.45	.50	.55	.58
DATE	15	16	16	16	16	16	16	16	16	16	16	16
TIME	1355	0010	0015	[illegible]	0015	0015	0045	0115	0125	[illegible]	0145	0230
NOV	.10	.15	.25	.30	.45	.55	.65	[illegible]	.88	.95	1.07	1.20
DATE	02	02	02	02	02	02	02	02	02	02	02	02
TIME	[illegible]	0440	0440	[illegible]	0440	0440	0440	0500	0520	[illegible]	[illegible]	0640
DEC	.05	.08	.09	.10	.13	.15	.15	.15	.17	.18	.20	.25
DATE	24	24	24	24	24	24	24	24	24	24	24	24
TIME	1035	1040	1040	1045	1050	[illegible]	1100	1100	1100	[illegible]	1100	1055
YEAR	.35	.57	.68	.90	1.22	1.34	1.35	1.36	1.42	1.47	1.62	1.79
MONTH	06	06	06	05	05	05	05	05	05	07	07	07

WACO, TEXAS

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	[illegible]	.14	.15	[illegible]	.15	.17	.22	[illegible]	[illegible]	.30
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	09	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	2240	[illegible]	2245	[illegible]	2302	[illegible]	2330	2230	[illegible]	2345	[illegible]	2330
FEB	.05	.09	[illegible]	.14	.18	.26	.36	.49	.62	.72	[illegible]	.86
DATE	[illegible]	[illegible]	[illegible]	[illegible]	02	[illegible]	[illegible]	[illegible]	[illegible]	02	02	[illegible]
TIME	1032	[illegible]	[illegible]	1045	1055	1110	1125	1145	1205	1225	1225	1225
MAR	[illegible]	.21	[illegible]	[illegible]	.27	.27	.27	.31	.33	.35	.40	.45
DATE	15	15	15	15	15	15	15	13	13	13	13	13
TIME	[illegible]	[illegible]	2322	[illegible]	2332	[illegible]	2350	0123	0142	0205	0232	0300
APR	.26	[illegible]	.52	.56	.63	[illegible]	.84	.87	[illegible]	[illegible]	.98	1.01
DATE	[illegible]	[illegible]	08	[illegible]	[illegible]	08	09	[illegible]	[illegible]	[illegible]	09	09
TIME	[illegible]	2355	[illegible]	[illegible]	2356	2356	0000	0020	0040	0100	[illegible]	0200
MAY	.50	.90	1.35	[illegible]	2.27	2.90	3.27	3.38	3.40	3.43	3.44	3.44
DATE	11	[illegible]	[illegible]	[illegible]	11	11	11	11	11	[illegible]	11	11
TIME	[illegible]	1132	[illegible]	[illegible]	1152	1150	1155	1155	1155	1155	1220	1255
JUN	.40	.67	.78	.83	[illegible]	[illegible]	[illegible]	[illegible]	.98	.99	1.00	[illegible]
DATE	27	27	27	27	27	27	27	27	27	27	27	27
TIME	0440	[illegible]	0445	0450	0447	0447	[illegible]	0447	0510	0530	[illegible]	0630
JUL	.25	.37	.47	[illegible]	.65	[illegible]	.85	[illegible]	.97	1.00	[illegible]	1.03
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	25	25	25	25	25	25	25
TIME	[illegible]	[illegible]	0035	[illegible]	0035	0723	0735	0815	[illegible]	0835	[illegible]	0935
AUG	[illegible]	.21	.29	[illegible]	[illegible]	.31	.31	.31	.33	.33	.33	[illegible]
DATE	[illegible]	02	[illegible]	[illegible]	02	02	02	02	02	02	[illegible]	[illegible]
TIME	1620	[illegible]	[illegible]	[illegible]	1645	1700	1715	1735	1755	[illegible]	1845	[illegible]
SEP	.32	[illegible]	.86	[illegible]	[illegible]	1.03	1.06	[illegible]	1.57	1.58	1.62	1.64
DATE	15	15	15	15	15	15	15	15	16	16	16	16
TIME	2237	2242	2247	2250	[illegible]	2317	2332	2352	0012	[illegible]	0102	0132
OCT	.17	.27	.38	.47	.59	.62	.69	.74	[illegible]	.82	.82	.82
DATE	24	24	24	24	24	24	24	24	24	24	24	24
TIME	[illegible]	[illegible]	1840	[illegible]	1845	1900	1845	1845	1901	[illegible]	1950	1950
NOV	[illegible]	.08	.09	.10	.14	[illegible]	.14	.19	.20	[illegible]	.22	.22
DATE	[illegible]	[illegible]	02	[illegible]	02	02	[illegible]	02	02	02	02	[illegible]
TIME	0010	1240	1245	1250	1300	[illegible]	1330	1350	1410	1430	1500	1530
DEC	.10	.12	.18	.22	.28	.30	[illegible]	.39	[illegible]	.59	.65	[illegible]
DATE	[illegible]	24	24	24	24	24	24	24	24	24	24	24
TIME	1146	1055	1058	1103	1113	[illegible]	1140	[illegible]	[illegible]	1240	1310	[illegible]
YEAR	.50	[illegible]	1.35	1.67	2.27	2.90	3.27	3.38	3.40	3.43	3.44	3.44
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	05	05	05	05	05	05	[illegible]	[illegible]

SALT LAKE CITY, UTAH

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.06	.09	[illegible]	.13	.17	[illegible]	[illegible]	.32	.37	[illegible]	[illegible]	.44
DATE	[illegible]	[illegible]	08	[illegible]	[illegible]	[illegible]	[illegible]	08	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1047	[illegible]	1128	1147	1208	[illegible]	1258	[illegible]
FEB	[illegible]	.07	[illegible]	.11	[illegible]	[illegible]	[illegible]	.21	.22	.22	.22	.22
DATE	[illegible]	[illegible]	04	[illegible]	[illegible]	04	[illegible]	[illegible]	04	04	04	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1840	1850	1912	[illegible]	1950	2010	2040	2112
MAR	[illegible]	.17	[illegible]	[illegible]	[illegible]	.24	.26	.35	.40	[illegible]	.58	[illegible]
DATE	[illegible]	[illegible]	22	[illegible]	[illegible]	22	[illegible]	[illegible]	22	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	0750	[illegible]	0800	0805	0806	0735	0745	0747	0740	0759
APR	.06	[illegible]	[illegible]	.11	.13	.15	.19	.23	.25	.28	.36	.43
DATE	25	25	25	25	25	25	25	25	25	25	25	25
TIME	1340	1345	1345	1350	1400	1414	1430	1450	1510	1448	1400	1400
MAY	.06	[illegible]	[illegible]	.09	[illegible]	.13	.15	.18	[illegible]	.25	[illegible]	[illegible]
DATE	22	[illegible]	[illegible]	22	22	04	04	04	04	04	04	04
TIME	[illegible]	[illegible]	1245	1250	[illegible]	[illegible]	1555	1500	1502	1501	1545	1615
JUN	.05	[illegible]	[illegible]	.10	[illegible]	[illegible]	.17	.21	[illegible]	[illegible]	.30	[illegible]
DATE	[illegible]	[illegible]	[illegible]	03	18	[illegible]	18	[illegible]	[illegible]	[illegible]	[illegible]	17
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1047	[illegible]	1112	1005	1005	1045	2103	[illegible]
JUL	[illegible]	[illegible]	[illegible]	[illegible]	.12	[illegible]	.15	.17	[illegible]	[illegible]	.19	.19
DATE	[illegible]	[illegible]	30	30	30	30	[illegible]	30	30	[illegible]	30	30
TIME	2024	[illegible]	[illegible]	2036	2040	[illegible]	2056	2057	2102	2133	2133	2133
AUG	.03	[illegible]	[illegible]	[illegible]	.08	[illegible]	[illegible]	[illegible]	[illegible]	.08	[illegible]	.08
DATE	[illegible]	[illegible]	22	[illegible]	22	[illegible]	22	22	22	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	0124	0130	0140	0155	0215	0235	0242	0312	0342
SEP	[illegible]	[illegible]	[illegible]	[illegible]	.05	.05	.05	.05	.05	[illegible]	.05	.05
DATE	[illegible]	13	[illegible]	[illegible]	13	13	13	13	[illegible]	13	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1642	1642	1642	1642	1642	1642	[illegible]	[illegible]
OCT	.12	.15	.16	.17	[illegible]	.20	.22	[illegible]	[illegible]	.42	.46	.49
DATE	[illegible]	07	07	07	07	[illegible]	[illegible]	[illegible]	[illegible]	07	07	07
TIME	1049	1057	1052	[illegible]	1052	[illegible]	[illegible]	1204	1226	1230	1300	[illegible]
NOV	.05	.07	[illegible]	[illegible]	[illegible]	.11	.15	.16	.18	[illegible]	.20	.23
DATE	28	28	28	28	28	28	28	28	28	28	07	[illegible]
TIME	1513	[illegible]	[illegible]	1527	1537	1550	1601	[illegible]	1630	[illegible]	1614	1644
DEC	[illegible]	[illegible]	[illegible]	.07	.09	.11	.14	[illegible]	[illegible]	.22	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	12	[illegible]	12	12	12	[illegible]	12	[illegible]
TIME	1846	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1846	[illegible]	[illegible]	1859	1859	[illegible]
YEAR	[illegible]	[illegible]	.18	[illegible]	[illegible]	.24	.27	[illegible]	[illegible]	.40	.58	.64
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	01	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SAN ANTONIO, TEXAS

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.12	.17	.24	.29	.29	.29	.30	.30	.31	.33	.34	.35
DATE	31	31	31	31	31	31	31	31	12	12	12	12
TIME	2257	2311	2309	2309	2309	2309	2348	2348	0000	0000	0030	0000
FEB	.25	.38	.45	.60	.76	.87	.89	.89	.89	.89	.89	.89
DATE	02	02	02	02	02	02	02	02	02	02	02	02
TIME	0131	0135	0140	0144	0154	0202	0202	0202	0202	0202	0202	0202
MAR	.11	.13	.15	.16	.16	.16	.17	.17	.18	.18	.18	.18
DATE	23	13	13	13	13	13	13	13	13	13	13	13
TIME	1635	0132	0137	0140	0140	0140	0215	0215	0215	0215	0215	0215
APR	.23	.35	.47	.56	.70	.82	.84	.86	.86	.86	.86	.86
DATE	08	08	08	08	08	08	08	08	08	08	08	08
TIME	0359	0403	0407	0411	0424	0430	0430	0430	0430	0430	0430	0430
MAY	.51	.86	1.12	1.14	1.73	1.99	2.06	2.10	2.10	2.10	2.10	2.10
DATE	04	04	04	04	08	08	08	08	08	08	08	08
TIME	1533	1538	1542	1545	1811	1855	1850	1900	1900	1900	1900	1900
JUN	.29	.56	.76	.89	1.07	1.21	1.24	1.24	1.24	1.24	1.24	1.24
DATE	10	10	10	10	10	10	10	10	10	10	10	10
TIME	0050	0057	0058	0102	0106	0119	0132	0148	0148	0148	0148	0148
JUL	.17	.24	.26	.27	.27	.28	.29	.31	.38	.41	.41	.41
DATE	17	17	17	12	12	12	12	12	12	12	12	12
TIME	1516	1520	1716	1721	1731	1746	1801	1521	1841	1901	1931	2001
AUG	.16	.26	.36	.43	.50	.53	.53	.54	.55	.55	.55	.55
DATE	23	23	23	23	23	23	23	23	23	23	23	23
TIME	1722	1723	1725	1728	1736	1741	1741	1741	1741	1741	1741	1741
SEP	.09	.14	.18	.18	.23	.23	.23	.23	.23	.23	.23	.23
DATE	16	16	16	16	16	16	16	16	16	16	16	16
TIME	0417	0418	0418	0418	0418	0418	0418	0418	0418	0418	0418	0418
OCT	.09	.14	.20	.27	.40	.57	.65	.75	.85	.95	1.06	1.16
DATE	25	25	25	25	25	25	25	25	25	25	25	25
TIME	1221	1225	1253	1248	1246	1249	1313	1334	1355	1414	1445	1512
NOV	.01	.02	.02	.02	.02	.03	.03	.03	.03	.03	.03	.03
DATE	29	29	29	29	29	29	29	29	29	29	29	29
TIME	1610	1619	1618	1621	1631	1645	1700	1704	1704	1704	1704	1704
DEC	.31	.40	.42	.44	.44	.48	.57	.58	.65	.66	.69	.73
DATE	24	24	24	24	24	24	24	24	24	24	24	24
TIME	0829	0831	0834	0836	0836	0902	0836	0836	0911	0911	0911	0911
YEAR	.51	.86	1.12	1.14	1.73	1.99	2.06	2.10	2.10	2.10	2.10	2.10
MONTH	05	05	05	05	05	05	05	05	05	05	05	05

WICHITA FALLS, TEXAS

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.04	.07	.09	.11	.13	.17	.19	.21	.24	.28	.32	.36
DATE	02	02	02	02	02	02	02	02	02	02	02	02
TIME	0545	0550	0555	0605	0615	0630	0645	0705	0725	0745	0815	0830
FEB	.04	.05	.07	.09	.12	.17	.21	.26	.27	.28	.31	.32
DATE	03	03	01	01	01	03	01	01	01	01	01	01
TIME	1953	2000	0555	0600	0610	0625	0640	0655	0710	0730	0800	0830
MAR	.10	.12	.14	.16	.20	.21	.22	.23	.33	.33	.33	.33
DATE	15	27	27	27	27	27	27	27	27	27	27	27
TIME	1040	0525	0533	0538	0545	0600	0615	0635	0655	0715	0745	0815
APR	.79	.99	1.05	1.10	1.15	1.25	1.29	1.37	1.37	1.37	1.37	1.37
DATE	27	27	27	27	27	27	27	27	27	27	27	27
TIME	1649	1654	1655	1659	1700	1715	1730	1750	1810	1830	1900	1930
MAY	.58	.78	.94	1.00	1.20	1.96	2.32	2.90	3.50	3.85	4.05	4.20
DATE	22	22	22	22	22	22	22	22	22	22	22	22
TIME	1915	1915	1920	1920	1935	1945	2000	2020	2040	2100	2130	2200
JUN	.18	.24	.35	.44	.56	.68	.74	.92	.97	.98	1.00	1.02
DATE	22	22	22	22	22	22	22	22	22	22	22	22
TIME	0212	0213	0214	0220	0230	0237	0258	0317	0332	0352	0423	0400
JUL	.21	.37	.52	.65	.80	.97	1.04	1.05	1.11	1.12	1.18	1.27
DATE	24	24	24	24	24	24	24	24	24	25	25	25
TIME	2220	2225	2230	2235	2245	2250	2300	2320	2340	0000	0030	0100
AUG	.35	.68	.90	1.24	1.79	2.06	[illegible]	2.32	2.43	2.45	2.47	2.49
DATE	26	26	26	26	26	26	26	26	26	26	26	26
TIME	0515	0515	0515	0520	0520	0535	0535	0550	0610	0628	0658	0728
SEP	.25	.50	.55	.56	.59	.75	.80	.95	1.00	1.07	1.12	1.33
DATE	12	12	12	12	12	12	12	12	12	12	12	12
TIME	0835	0840	0840	0845	0855	0910	0907	0910	0905	0920	1045	1045
OCT	.13	.16	.19	.32	.35	.47	.54	.66	.70	.70	.70	.70
DATE	15	15	15	15	15	15	15	15	15	15	15	15
TIME	0520	0525	0535	0535	0520	0535	0525	0545	0610	0625	0655	0725
NOV	.08	.11	.14	.17	.25	.29	.30	.39	.48	.52	.52	.53
DATE	02	02	02	02	02	02	02	02	02	02	02	02
TIME	0205	0232	0230	0235	0230	0245	0300	0320	0340	0400	0430	0500
DEC	.04	.08	.08	.10	.13	.15	.19	.21	.29	.35	.36	.47
DATE	24	24	24	24	24	24	24	24	24	24	24	24
TIME	0820	0720	0720	0814	0858	0858	0858	0858	0858	0859	0935	0945
YEAR	.79	.99	1.05	1.24	1.79	2.06	2.32	2.90	3.50	3.85	4.05	4.20
MONTH	04	04	04	08	08	08	05	05	05	05	05	05

WENDOVER, UTAH

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.03	.04	.07	.08	.09	.10	.11	.11	.11	.11	.11	.11
DATE	08	08	08	08	08	08	08	08	08	08	08	08
TIME	0845	0850	0855	0900	0910	0925	0940	0950	0950	0950	0950	0950
FEB	.05	.09	.10	.12	.12	.12	.12	.12	.12	.12	.13	.18
DATE	09	09	09	09	09	09	09	09	09	09	09	09
TIME	1140	1145	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150
MAR	.04	.06	.07	.08	.14	.16	.16	.16	.16	.16	.16	.16
DATE	22	22	22	08	08	08	08	08	08	08	22	22
TIME	0255	0300	0303	1436	1445	1447	1500	1447	1505	1505	0400	0430
APR	.04	.04	.05	.06	.07	.08	.09	.10	.10	.10	.10	.10
DATE	12	17	17	17	17	17	17	17	17	17	17	17
TIME	1425	2235	2240	2245	2255	2300	2300	2320	2330	2330	2330	2330
MAY	.03	.04	.06	.06	.06	.06	.08	.11	.13	.16	.18	.20
DATE	22	22	22	22	22	22	20	20	20	20	20	20
TIME	1653	1350	1701	1701	1715	1715	2220	2220	2220	2220	2220	2220
JUN	.05	.07	.08	.09	.10	.10	.10	.10	.10	.10	.10	.10
DATE	03	03	03	03	03	03	03	03	03	03	03	03
TIME	1422	1427	1432	1437	1447	1502	1517	1537	1557	1617	1647	1717
JUL	T	T	.01	.01	.01	.01	.01	.01	.02	.02	.02	.02
DATE			29	29	29	29	29	29	11	11	06	06
TIME			1615	1620	1630	1645	1700	1720	1640	1700	0515	0515
AUG	.04	.06	.09	.11	.12	.12	.12	.12	.12	.12	.12	.12
DATE	21	21	21	21	21	21	21	21	21	21	21	21
TIME	1424	1424	1434	1434	1444	1459	1514	1534	1554	1614	1644	1714
SEP	.02	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03
DATE	10	10	10	10	10	10	10	10	10	10	10	10
TIME	0100	0105	0105	0105	0105	0105	0105	0105	0105	0105	0105	0105
OCT	.03	.06	.08	.10	.15	.19	.21	.24	.27	.28	.28	.34
DATE	07	07	07	07	07	07	07	07	07	07	07	26
TIME	0715	0720	0725	0725	0735	0735	0750	0800	0805	0815	0845	2240
NOV	M	M	M	M	M	M	M	M	M	M	M	M
DATE												
TIME												
DEC	.01	.02	.02	.02	.02	.03	.03	.04	.04	.05	.05	.06
DATE	13	13	13	13	13	13	13	13	13	13	13	13
TIME	0914	0914	0914	0914	0914	0914	0930	0950	1010	1030	1030	1030
YEAR	.05	.09	.10	.12	.15	.19	.21	.24	.27	.28	.28	.34
MONTH	06+	02	02	02	10	10	10	10	10	10	10	10

MAXIMUM SHORT DURATION PRECIPITATION

BURLINGTON, VERMONT

									100			
JAN	[illegible]	[illegible]	[illegible]	.18	.21	.22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	11	11	11	11	[illegible]	11	11	11	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1848	1903	1915	[illegible]	[illegible]	2018	2048	[illegible]
FEB	[illegible]	[illegible]	[illegible]	[illegible]	.10	.12	.13	.14	.17	.18	[illegible]	.20
DATE	[illegible]	25	[illegible]	25	[illegible]	25	25	[illegible]	[illegible]	[illegible]	25	[illegible]
TIME	[illegible]	[illegible]	[illegible]	1150	1145	1200	1200	[illegible]	1244	[illegible]	[illegible]	1347
MAR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.11	.14	.16	[illegible]	[illegible]	[illegible]	.30
DATE	[illegible]	25	25	25	25	25	[illegible]	25	[illegible]	17	17	[illegible]
TIME	[illegible]	[illegible]	1705	1710	1920	[illegible]	[illegible]	0247	1330	[illegible]	1330	[illegible]
APR	[illegible]	[illegible]	.09	.10	.13	.17	.20	.22	[illegible]	[illegible]	.31	.32
DATE	[illegible]	19	19	19	[illegible]	19	19	[illegible]	[illegible]	[illegible]	19	[illegible]
TIME	[illegible]	0232	[illegible]	[illegible]	[illegible]	[illegible]	0234	0308	[illegible]	[illegible]	[illegible]	[illegible]
MAY	[illegible]	.17	[illegible]	.20	.22	.25	.28	.28	.28	.28	.28	.33
DATE	[illegible]	27	27	27	27	[illegible]	[illegible]	[illegible]	27	27	[illegible]	[illegible]
TIME	[illegible]	0055	[illegible]	0100	0110	0125	[illegible]	0140	0140	0140	[illegible]	[illegible]
JUN	.10	[illegible]	[illegible]	[illegible]	.21	.24	.26	.26	[illegible]	.29	.30	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13	[illegible]	[illegible]	13	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	0132	[illegible]	[illegible]	0148	0148	0148	[illegible]	0148	0148
JUL	.25	[illegible]	.47	[illegible]	1.03	1.15	1.23	[illegible]	1.24	1.24	1.25	1.32
DATE	11	[illegible]	15	15	15	15	15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	0316	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0400	[illegible]	0405	[illegible]	0515	0405
AUG	[illegible]	[illegible]	[illegible]	[illegible]	.56	.59	.65	.68	.70	[illegible]	.73	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	26	26	26	26	26	26	[illegible]	26
TIME	[illegible]	[illegible]	2055	[illegible]	[illegible]	2125	[illegible]	2200	[illegible]	2240	2310	[illegible]
SEP	[illegible]	[illegible]	[illegible]	[illegible]	.37	[illegible]	[illegible]	.52	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	12	[illegible]	[illegible]	[illegible]	12	12	[illegible]	[illegible]	[illegible]	[illegible]	12
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0730	[illegible]	0805	[illegible]	0730	0730	[illegible]
OCT	.10	[illegible]	.17	.20	[illegible]	[illegible]	.30	.32	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	02	[illegible]	[illegible]	[illegible]	02	02	02	[illegible]	[illegible]	02	02
TIME	[illegible]	[illegible]	[illegible]	[illegible]	2115	0020	[illegible]	0055	2115	[illegible]	0210	0235
NOV	[illegible]	[illegible]	[illegible]	.23	.37	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	10	10	10	10	[illegible]	[illegible]	[illegible]	10	10
TIME	1800	[illegible]	[illegible]	[illegible]	1807	1816	1816	[illegible]	1831	[illegible]	[illegible]	[illegible]
DEC	[illegible]	[illegible]	.09	.10	[illegible]	.12	.15	[illegible]	[illegible]	.30	[illegible]	[illegible]
DATE	13	13	[illegible]	[illegible]	13	13	26	[illegible]	26	26	26	[illegible]
TIME	[illegible]	[illegible]	2305	2305	2310	[illegible]	0915	0930	1030	1030	1030	1300
YEAR	[illegible]	[illegible]	[illegible]	[illegible]	1.03	1.15	1.23	[illegible]	[illegible]	1.24	[illegible]	1.32
MONTH	[illegible]	07	[illegible]	[illegible]	07	07	[illegible]	[illegible]	07	07	[illegible]	07

RICHMOND, VIRGINIA

JAN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.62	[illegible]	[illegible]	[illegible]	1.20	[illegible]
DATE	[illegible]	11	[illegible]	11	11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11	11
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0830	0830
FEB	[illegible]	[illegible]	.08	[illegible]	.13	[illegible]	.18	.18	.20	.22	.22	[illegible]
DATE	24	[illegible]	24	[illegible]	24	[illegible]	24	24	24	24	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1700	1654	[illegible]	1736	2158
MAR	[illegible]	.36	[illegible]	[illegible]	[illegible]	.56	.58	[illegible]	.78	[illegible]	.95	1.06
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	30	30	30	30	30	30
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0444	[illegible]	0139	[illegible]	0241	[illegible]
APR	[illegible]	[illegible]	[illegible]	.11	[illegible]	.21	.27	[illegible]	[illegible]	.51	.57	.71
DATE	[illegible]	15	[illegible]	15	15	[illegible]	[illegible]	15	[illegible]	[illegible]	15	15
TIME	[illegible]	[illegible]	0340	[illegible]	0350	[illegible]	0408	0408	0416	[illegible]	[illegible]	[illegible]
MAY	.22	.34	.42	[illegible]	[illegible]	[illegible]	[illegible]	.93	[illegible]	[illegible]	[illegible]	1.03
DATE	[illegible]	31	31	31	[illegible]	[illegible]	31	31	31	[illegible]	31	31
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2334	[illegible]	2359	[illegible]	[illegible]	2359	2359
JUN	[illegible]	.50	[illegible]	[illegible]	.86	.88	.88	.89	.90	[illegible]	.90	.90
DATE	[illegible]	27	27	27	[illegible]	27	27	[illegible]	[illegible]	[illegible]	27	27
TIME	[illegible]	1929	1934	[illegible]	[illegible]	[illegible]	2001	2001	[illegible]	2001	2001	2001
JUL	.43	[illegible]	1.12	1.32	[illegible]	1.88	1.93	[illegible]	1.98	[illegible]	2.32	2.44
DATE	[illegible]	11	[illegible]	[illegible]	[illegible]	11	[illegible]	11	11	11	11	11
TIME	[illegible]	[illegible]	1944	[illegible]	[illegible]	1947	1947	[illegible]	1947	[illegible]	2109	2139
AUG	[illegible]	[illegible]	.40	.43	.50	[illegible]	[illegible]	[illegible]	.70	.71	[illegible]	.77
DATE	[illegible]	15	[illegible]	[illegible]	05	[illegible]	[illegible]	[illegible]	[illegible]	06	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	2337	2347	[illegible]	0006	[illegible]	0040	[illegible]	0050	0109
SEP	[illegible]	[illegible]	[illegible]	.59	[illegible]	[illegible]	1.38	1.54	1.66	1.70	[illegible]	1.99
DATE	[illegible]	18	[illegible]	18	[illegible]	01	[illegible]	[illegible]	01	01	01	[illegible]
TIME	[illegible]	[illegible]	[illegible]	1140	0656	[illegible]	[illegible]	0738	[illegible]	0818	0848	[illegible]
OCT	.11	.17	[illegible]	.27	[illegible]	[illegible]	.43	.57	.63	.65	[illegible]	[illegible]
DATE	[illegible]	16	[illegible]	[illegible]	[illegible]	16	16	[illegible]	[illegible]	[illegible]	17	17
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2336	2359	0019	0040	0044	[illegible]	0044
NOV	.11	[illegible]	.23	.27	[illegible]	[illegible]	.51	.56	.59	[illegible]	.69	1.01
DATE	[illegible]	12	[illegible]	12	12	12	[illegible]	12	12	[illegible]	12	12
TIME	2142	[illegible]	[illegible]	[illegible]	[illegible]	1952	[illegible]	2028	2047	[illegible]	2130	2208
DEC	[illegible]	.10	.13	[illegible]	.23	[illegible]	.33	[illegible]	[illegible]	.63	.70	[illegible]
DATE	31	31	[illegible]	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31	[illegible]
TIME	[illegible]	1129	[illegible]	1130	1130	1147	1155	1147	[illegible]	1150	[illegible]	[illegible]
YEAR	.43	[illegible]	[illegible]	1.32	1.64	[illegible]	1.93	1.98	1.98	2.16	2.32	[illegible]
MONTH	[illegible]	07	[illegible]	[illegible]	07	[illegible]	[illegible]	07	07	07	07	[illegible]

WASHINGTON, D. C. [illegible]

JAN	[illegible]	[illegible]	.14	.16	.17	.17	[illegible]	[illegible]	.20	.23	.26	[illegible]
DATE	[illegible]	25	[illegible]	[illegible]	25	25	25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	1325	[illegible]	[illegible]	1339	1340	1355	1405	1000	1000	[illegible]	[illegible]	0030
FEB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.15	[illegible]	.18	[illegible]	.20	.23
DATE	23	23	[illegible]	[illegible]	23	23	23	[illegible]	23	23	12	[illegible]
TIME	1114	[illegible]	1115	1115	1030	1030	1115	1115	1115	1115	0755	0825
MAR	.28	[illegible]	[illegible]	.60	[illegible]	[illegible]	.77	.91	[illegible]	1.03	1.05	1.06
DATE	24	[illegible]	[illegible]	[illegible]	[illegible]	24	24	[illegible]	[illegible]	24	24	[illegible]
TIME	1515	1520	[illegible]	[illegible]	1530	1545	1530	[illegible]	[illegible]	1545	1615	1645
APR	[illegible]	[illegible]	.17	.19	.23	[illegible]	.26	.28	.38	[illegible]	.41	[illegible]
DATE	25	[illegible]	[illegible]	25	25	25	25	[illegible]	[illegible]	25	25	[illegible]
TIME	1355	1400	[illegible]	1405	1420	1415	1430	1505	1520	1520	1555	1645
MAY	[illegible]	[illegible]	1.17	1.28	[illegible]	2.04	2.15	2.19	[illegible]	[illegible]	2.20	2.20
DATE	22	[illegible]	22	22	[illegible]	22	22	22	[illegible]	22	22	22
TIME	1830	[illegible]	[illegible]	1830	1830	[illegible]	[illegible]	1900	[illegible]	1940	2010	[illegible]
JUN	[illegible]	[illegible]	[illegible]	[illegible]	.43	[illegible]	[illegible]	.44	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	16	[illegible]	16	16	16	[illegible]	16	[illegible]	[illegible]	16	[illegible]
TIME	1227	[illegible]	[illegible]	1242	1252	1307	1322	[illegible]	1402	1422	1452	[illegible]
JUL	.27	[illegible]	[illegible]	.57	[illegible]	1.02	1.10	[illegible]	1.10	[illegible]	1.10	1.20
DATE	[illegible]	10	[illegible]	[illegible]	[illegible]	14	[illegible]	14	14	14	[illegible]	13
TIME	[illegible]	[illegible]	[illegible]	[illegible]	0215	0237	[illegible]	0300	[illegible]	0340	[illegible]	1525
AUG	[illegible]	[illegible]	[illegible]	.41	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.43	[illegible]	.57
DATE	[illegible]	17	17	[illegible]	17	17	17	17	17	[illegible]	31	31
TIME	[illegible]	[illegible]	1850	[illegible]	0905	1915	1930	1950	2010	[illegible]	[illegible]	[illegible]
SEP	.30	[illegible]	.70	[illegible]	1.03	1.26	[illegible]	1.80	[illegible]	[illegible]	[illegible]	1.90
DATE	[illegible]	25	25	25	25	25	25	[illegible]	25	[illegible]	25	25
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1835	[illegible]	[illegible]
OCT	[illegible]	.14	[illegible]	.19	[illegible]	.36	.45	.55	[illegible]	[illegible]	[illegible]	.80
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	09	09	[illegible]	09	09	09	[illegible]
TIME	0035	[illegible]	[illegible]	[illegible]	0055	0100	[illegible]	0105	[illegible]	0110	[illegible]	[illegible]
NOV	.14	[illegible]	[illegible]	.29	.33	[illegible]	.50	.58	.69	.75	.92	.87
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12	12	[illegible]	[illegible]	[illegible]	[illegible]	12
TIME	[illegible]	0541	[illegible]	[illegible]	0546	0559	0622	0639	[illegible]	[illegible]	[illegible]	[illegible]
DEC	.11	[illegible]	[illegible]	.17	.20	.25	.33	.40	[illegible]	.57	.61	[illegible]
DATE	01	01	01	[illegible]	[illegible]	31	31	31	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	2146	[illegible]	[illegible]	2149	2200	2200	[illegible]	[illegible]	2300
YEAR	[illegible]	[illegible]	1.17	[illegible]	[illegible]	2.04	2.15	[illegible]	[illegible]	2.20	2.20	[illegible]
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	05	[illegible]	[illegible]	[illegible]	[illegible]	05	05	[illegible]

MAXIMUM SHORT DURATION PRECIPITATION

Maximum precipitation in inches (5 to 180 minutes)

SEATTLE-TACOMA [illegible]

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.02	[illegible]	[illegible]	[illegible]	.10	[illegible]	.18	.22	[illegible]	.30	.42	[illegible]
DATE	[illegible]	[illegible]	[illegible]	03	[illegible]	03	[illegible]	12	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0200	0220	0240	0300	0330	0400
FEB	[illegible]	[illegible]	.12	.15	.17	.19	.23	[illegible]	[illegible]	.45	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16	[illegible]	9	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	1540	[illegible]	[illegible]	[illegible]	1625	[illegible]	1705	[illegible]	[illegible]	1755
MAR	[illegible]	.04	[illegible]	[illegible]	[illegible]	.15	[illegible]	.18	.18	[illegible]	.25	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17	[illegible]	17	[illegible]	[illegible]	01	01
TIME	[illegible]	[illegible]	0814	[illegible]	[illegible]	[illegible]	0859	0919	[illegible]	0956	1615	[illegible]
APR	[illegible]	[illegible]	[illegible]	[illegible]	.12	.13	.13	.13	[illegible]	.18	[illegible]	.27
DATE	[illegible]	24	24	24	24	24	24	24	[illegible]	24	24	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1800	[illegible]	[illegible]	0240	[illegible]	[illegible]	[illegible]
MAY	[illegible]	[illegible]	.06	[illegible]	[illegible]	.11	[illegible]	.14	.15	.16	.17	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	02	[illegible]	[illegible]	[illegible]	10	10
TIME	[illegible]	[illegible]	[illegible]	2345	[illegible]	2355	2355	[illegible]	2040	2100	2130	2200
JUN	[illegible]	.04	[illegible]	[illegible]	.12	.14	[illegible]	.19	.22	[illegible]	[illegible]	.30
DATE	[illegible]	[illegible]	24	[illegible]	24	[illegible]	24	[illegible]	[illegible]	[illegible]	24	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0850	[illegible]	0850	[illegible]	[illegible]
JUL	[illegible]	[illegible]	[illegible]	.04	.05	.06	[illegible]	[illegible]	.10	.12	[illegible]	.12
DATE	[illegible]	[illegible]	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	28	28	[illegible]
TIME	[illegible]	[illegible]	0915	0920	[illegible]	0945	1000	[illegible]	[illegible]	[illegible]	1000	1000
AUG	[illegible]	.20	.24	.27	[illegible]	[illegible]	.45	.48	.51	.55	[illegible]	.73
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	0040	[illegible]	0110	0130	0150	[illegible]	0240	0310
SEP	T	T	T	T	T	T	T	T	T	T	T	T
DATE												
TIME												
OCT	[illegible]	[illegible]	.12	[illegible]	.16	[illegible]	[illegible]	.24	[illegible]	[illegible]	[illegible]	.40
DATE	[illegible]	9	[illegible]	[illegible]	[illegible]	03	[illegible]	[illegible]	29	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	0205	[illegible]	[illegible]	[illegible]	0930	0950	1010	1030	1100
NOV	[illegible]	[illegible]	[illegible]	[illegible]	.18	.18	.23	.28	.31	.38	[illegible]	[illegible]
DATE	[illegible]	6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13
TIME	[illegible]	[illegible]	[illegible]	1725	[illegible]	1750	[illegible]	2000	2000	2000	[illegible]	[illegible]
DEC	[illegible]	[illegible]	[illegible]	.14	[illegible]	.15	.22	[illegible]	.35	[illegible]	[illegible]	.52
DATE	[illegible]	[illegible]	24	26	[illegible]	02	02	02	02	[illegible]	02	02
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1945	2000	[illegible]	2040	[illegible]	[illegible]	[illegible]
YEAR	[illegible]	.20	[illegible]	[illegible]	.37	[illegible]	.45	.48	[illegible]	.55	[illegible]	[illegible]
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SPOKANE, WASHINGTON

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.02	[illegible]	[illegible]	.05	.05	.08	.08	.11	.12	.14	[illegible]	.19
DATE	07	7	[illegible]	7	[illegible]	[illegible]	07	07	07	07	07	07
TIME	[illegible]	2005	[illegible]	2015	[illegible]	[illegible]	2100	2120	[illegible]	2200	2230	[illegible]
FEB	[illegible]	[illegible]	[illegible]	[illegible]	.08	[illegible]	.13	.15	.17	[illegible]	.22	.24
DATE	[illegible]	3	[illegible]	[illegible]	03	03	[illegible]	[illegible]	03	03	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	0835	0845	0903	[illegible]	0910	0910	0910	0600
MAR	[illegible]	.03	[illegible]	[illegible]	[illegible]	.08	[illegible]	[illegible]	[illegible]	[illegible]	.22	.22
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	22	[illegible]	22	[illegible]	[illegible]	[illegible]
TIME	0035	[illegible]	[illegible]	0045	[illegible]	0045	0100	0120	0140	0200	[illegible]	[illegible]
APR	[illegible]	[illegible]	[illegible]	.07	.08	[illegible]	.11	[illegible]	.15	.16	.17	.19
DATE	24	24	24	24	24	24	24	24	[illegible]	24	24	24
TIME	[illegible]	1700	[illegible]	1703	1703	1933	1933	1950	2013	[illegible]	2102	2132
MAY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.31	.31	.32	[illegible]	[illegible]	[illegible]	.56
DATE	[illegible]	11	[illegible]	[illegible]	11	[illegible]	11	11	[illegible]	[illegible]	[illegible]	11
TIME	0550	[illegible]	[illegible]	[illegible]	0607	[illegible]	0610	0645	0705	0800	0800	0825
JUN	[illegible]	.27	.28	.29	.33	.34	.34	.34	.34	.34	.34	.34
DATE	[illegible]	[illegible]	27	[illegible]	[illegible]	27	[illegible]	27	[illegible]	27	27	27
TIME	[illegible]	1125	1130	[illegible]	1150	1205	1205	1205	[illegible]	1205	1205	1210
JUL	[illegible]	[illegible]	.43	[illegible]	.51	[illegible]	.65	.73	.75	.75	.75	.75
DATE	[illegible]	[illegible]	[illegible]	13	[illegible]	[illegible]	[illegible]	[illegible]	13	13	13	13
TIME	[illegible]	[illegible]	[illegible]	0445	[illegible]	0507	0522	0535	0545	0605	[illegible]	0705
AUG	[illegible]	.08	[illegible]	[illegible]	[illegible]	.11	.13	.14	[illegible]	.17	.19	.24
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	28	28	[illegible]	[illegible]	[illegible]	18	18
TIME	[illegible]	[illegible]	[illegible]	1530	1530	[illegible]	0335	0335	0405	0430	1045	1045
SEP	[illegible]	.01	[illegible]	[illegible]	.02	.02	.02	.03	[illegible]	.03	.03	.03
DATE	[illegible]	[illegible]	[illegible]	[illegible]	01	01	[illegible]	01	[illegible]	01	[illegible]	01
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1450	1505	1520	1550	1550	1550	1550	1550
OCT	[illegible]	.11	[illegible]	.13	.18	.24	.27	.32	[illegible]	.37	.42	[illegible]
DATE	03	[illegible]	03	[illegible]	[illegible]	3	03	03	[illegible]	[illegible]	03	[illegible]
TIME	[illegible]	1605	[illegible]	[illegible]	1625	1640	1655	1715	1735	1755	1825	[illegible]
NOV	[illegible]	.02	[illegible]	[illegible]	.04	.05	[illegible]	.10	.14	.16	.20	.23
DATE	[illegible]	[illegible]	[illegible]	30	[illegible]	30	30	[illegible]	[illegible]	30	30	30
TIME	[illegible]	[illegible]	[illegible]	1220	1230	[illegible]	1300	1320	1340	[illegible]	[illegible]	1500
DEC	[illegible]	[illegible]	[illegible]	[illegible]	.10	[illegible]	.13	.17	[illegible]	[illegible]	[illegible]	.28
DATE	[illegible]	[illegible]	[illegible]	[illegible]	29	[illegible]	29	26	[illegible]	[illegible]	26	[illegible]
TIME	1935	[illegible]	1945	[illegible]	[illegible]	[illegible]	2030	0910	0920	[illegible]	1030	1000
YEAR	.24	.30	[illegible]	[illegible]	[illegible]	.59	[illegible]	.73	.75	.75	.75	.75
MONTH	[illegible]	[illegible]	07	[illegible]	[illegible]	[illegible]	07	07	07	07	[illegible]	[illegible]

STAMPEDE PASS, WASHINGTON

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.33	.43	.54	.65	.75	[illegible]	1.04
DATE	18	18	18	18	[illegible]	[illegible]	18	18	18	[illegible]	[illegible]	18
TIME	[illegible]	[illegible]	0000	0000	[illegible]	[illegible]	0000	[illegible]	[illegible]	[illegible]	0100	[illegible]
FEB	[illegible]	.07	[illegible]	.12	[illegible]	[illegible]	[illegible]	.36	.45	[illegible]	[illegible]	.68
DATE	[illegible]	[illegible]	12	12	12	[illegible]	[illegible]	12	[illegible]	[illegible]	12	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0220	[illegible]	[illegible]	0330	[illegible]
MAR	[illegible]	[illegible]	[illegible]	.12	[illegible]	.15	[illegible]	.19	.21	.26	.28	.31
DATE	01	[illegible]	01	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	01	02	02	02
TIME	1515	[illegible]	1525	[illegible]	1540	[illegible]	[illegible]	[illegible]	[illegible]	1600	1630	1700
APR	[illegible]	[illegible]	.06	[illegible]	.09	.15	[illegible]	.18	.19	.21	.23	.25
DATE	27	27	27	27	[illegible]	27	27	27	[illegible]	27	27	27
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0845	[illegible]	0900	[illegible]	[illegible]	[illegible]	[illegible]
MAY	[illegible]	[illegible]	[illegible]	[illegible]	.11	.17	.22	.28	.33	.38	[illegible]	.43
DATE	[illegible]	1	[illegible]	[illegible]	[illegible]	10	[illegible]	[illegible]	[illegible]	[illegible]	10	[illegible]
TIME	[illegible]	[illegible]	1800	[illegible]	[illegible]	[illegible]	[illegible]	1900	[illegible]	1900	[illegible]	[illegible]
JUN	[illegible]	[illegible]	.07	.08	.12	[illegible]	.17	.20	[illegible]	.28	[illegible]	.28
DATE	23	23	23	23	23	23	23	23	23	23	23	23
TIME	[illegible]	[illegible]	[illegible]	2232	[illegible]	[illegible]	[illegible]	2300	[illegible]	2300	[illegible]	2300
JUL	[illegible]	[illegible]	[illegible]	[illegible]	.14	.14	.14	[illegible]	.16	[illegible]	.17	.17
DATE	[illegible]	28	28	28	[illegible]	28	[illegible]	28	28	[illegible]	28	[illegible]
TIME	[illegible]	[illegible]	0925	[illegible]	0940	[illegible]	[illegible]	[illegible]	[illegible]	0940	0940	[illegible]
AUG	[illegible]	[illegible]	.13	[illegible]	.23	.34	[illegible]	.55	[illegible]	[illegible]	.90	.95
DATE	[illegible]	18	[illegible]	18	[illegible]	[illegible]	[illegible]	18	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	0035	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0155	0235	[illegible]
SEP	.01	[illegible]	.03	.03	.04	[illegible]	.06	.06	.07	.07	.08	.09
DATE	[illegible]	28	[illegible]	28	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16	16
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0542	0602	[illegible]	1445	1445
OCT	[illegible]	[illegible]	.08	[illegible]	[illegible]	.21	[illegible]	.33	.40	.49	.59	.68
DATE	[illegible]	[illegible]	19	19	[illegible]	19	[illegible]	19	[illegible]	[illegible]	19	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	0500	[illegible]	0345	0500	[illegible]	[illegible]	0530	0530
NOV	[illegible]	[illegible]	.15	[illegible]	.27	.32	.38	.49	.60	.73	.85	1.08
DATE	30	30	30	30	30	30	30	30	30	30	30	30
TIME	1710	[illegible]	[illegible]	1725	1735	[illegible]	1805	1825	1845	1905	1935	1945
DEC	[illegible]	[illegible]	.12	[illegible]	[illegible]	.32	.41	.50	.61	.73	.93	1.09
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	01	[illegible]
TIME	1600	[illegible]	[illegible]	[illegible]	[illegible]	1945	2200	[illegible]	1440	[illegible]	1530	1000
YEAR	.06	.10	.15	.18	.27	.34	.43	.55	.65	.75	.93	1.09
MONTH	11	[illegible]	11	08	11	[illegible]	01	08	08+	01	12	12

WALLA WALLA, WASHINGTON

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	.10	[illegible]	[illegible]	[illegible]	.30	[illegible]	.42	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	14	14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14
TIME	[illegible]	[illegible]	[illegible]	[illegible]	0300	0300	0300	0240	[illegible]	[illegible]	[illegible]	[illegible]
FEB	.03	[illegible]	[illegible]	[illegible]	[illegible]	.10	.12	.14	.15	.16	[illegible]	.17
DATE	[illegible]	9	[illegible]	[illegible]	24	[illegible]	24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	1725	[illegible]	[illegible]	[illegible]	0047	0042	0054	0108	0130	[illegible]	[illegible]	[illegible]
MAR	.02	[illegible]	[illegible]	.07	[illegible]	.12	.14	.14	[illegible]	[illegible]	.15	.15
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6	[illegible]	[illegible]	08	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1909	1916	[illegible]	[illegible]	1916	2050	[illegible]
APR	.02	.04	[illegible]	.06	.08	[illegible]	[illegible]	[illegible]	.18	[illegible]	.24	.29
DATE	[illegible]	[illegible]	24	[illegible]	24	[illegible]	[illegible]	[illegible]	[illegible]	24	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1639	[illegible]	[illegible]	[illegible]	[illegible]	1650	[illegible]	[illegible]
MAY	[illegible]	[illegible]	[illegible]	.05	.07	[illegible]	.11	.14	.16	[illegible]	.19	.20
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11	[illegible]
TIME	[illegible]	[illegible]	[illegible]	0405	0406	0406	0414	0406	0406	[illegible]	0414	0442
JUN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.20	.20	.22	[illegible]	.24
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	02	02
TIME	[illegible]	[illegible]	[illegible]	[illegible]	0902	[illegible]	0856	[illegible]	0918	0902	0918	1010
JUL	[illegible]	.01	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.01	.01	.01	[illegible]	.01
DATE	[illegible]	14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14	14	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1738	[illegible]	1738	[illegible]	[illegible]	[illegible]	[illegible]	1738
AUG	.03	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.28	[illegible]	[illegible]	.32	.34
DATE	[illegible]	[illegible]	[illegible]	[illegible]	30	30	[illegible]	30	30	30	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2130	[illegible]	2140	[illegible]	2156	[illegible]	0214
SEP	.00	[illegible]	.00	.00	[illegible]	[illegible]	.00	.00	[illegible]	[illegible]	.00	.00
DATE												
TIME												
OCT	[illegible]	[illegible]	[illegible]	.05	[illegible]	[illegible]	[illegible]	.13	.15	[illegible]	.18	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	25	25	25	25	25	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1041	[illegible]	1030	1030	1041	1050	[illegible]	[illegible]
NOV	[illegible]	.04	[illegible]	.07	.09	[illegible]	[illegible]	.16	.16	.17	[illegible]	.18
DATE	[illegible]	[illegible]	24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	1702	[illegible]	[illegible]	1704	[illegible]	1710	[illegible]	1719	1719	1719	1814
DEC	[illegible]	[illegible]	.06	[illegible]	.11	.15	.18	.20	.23	[illegible]	.29	.31
DATE	04	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	04	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1110	[illegible]	[illegible]	1122	1145	1200	[illegible]	[illegible]
YEAR	[illegible]	[illegible]	.13	[illegible]	[illegible]	.30	.36	.42	[illegible]	[illegible]	[illegible]	[illegible]
MONTH	[illegible]	01	[illegible]	[illegible]	[illegible]	[illegible]	01	[illegible]	01	[illegible]	[illegible]	01

YAKIMA, WASHINGTON

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	[illegible]	[illegible]	.08	[illegible]	.12	.16	.18	.22	[illegible]	.32
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	03	[illegible]	03	03	[illegible]	03
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1900	1920	1940	2000	[illegible]	2100
FEB	[illegible]	.02	.03	.04	.06	[illegible]	.09	[illegible]	.12	.16	[illegible]	[illegible]
DATE	27	27	27	27	27	27	27	[illegible]	27	27	27	27
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1502	1502	[illegible]	[illegible]	1643	[illegible]	1643	1643
MAR	[illegible]	.04	[illegible]	[illegible]	.05	[illegible]	.08	.09	.10	[illegible]	.11	[illegible]
DATE	[illegible]	[illegible]	01	[illegible]	01	[illegible]	21	21	21	21	21	21
TIME	0948	1940	1940	1940	1940	1953	[illegible]	0955	0955	[illegible]	0756	0955
APR	[illegible]	[illegible]	[illegible]	[illegible]	.04	.05	.07	.08	.10	[illegible]	.13	.16
DATE	[illegible]	[illegible]	24+	14	14	[illegible]	[illegible]	14	14	[illegible]	14	14
TIME	[illegible]	1547	[illegible]	1357	1357	1357	1357	1357	1357	1357	1357	1357
MAY	[illegible]	[illegible]	.03	[illegible]	.04	.05	.06	.08	.09	[illegible]	.09	.09
DATE	02	[illegible]	[illegible]	10	[illegible]	[illegible]	02	[illegible]	[illegible]	02	02	[illegible]
TIME	2047	[illegible]	[illegible]	1732	[illegible]	2047	2110	2130	2145	[illegible]	2145	2145
JUN	.03	[illegible]	.05	[illegible]	.08	.08	.09	[illegible]	[illegible]	[illegible]	.09	.09
DATE	[illegible]	17	17	17	17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17
TIME	[illegible]	0555	[illegible]	[illegible]	0555	1930	1944	1944	1944	1944	1944	1944
JUL	.02	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.06	[illegible]	.06	[illegible]	.06	[illegible]
DATE	11	11	11	11	[illegible]	11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	2109	[illegible]	2119	2124	2134	2140	2140	2140	0435	[illegible]	0435	0435
AUG	[illegible]	[illegible]	[illegible]	.51	.58	.65	[illegible]	.84	.96	[illegible]	[illegible]	[illegible]
DATE	[illegible]	18	[illegible]	18	[illegible]	18	18	18	18	18	[illegible]	[illegible]
TIME	0346	0351	[illegible]	[illegible]	0411	0426	[illegible]	0433	0433	0433	0433	0433
SEP	T	T	T	T	T	T	T	T	T	T	T	T
DATE												
TIME												
OCT	[illegible]	[illegible]	[illegible]	.03	.04	[illegible]	.08	.09	.10	[illegible]	.14	.17
DATE	21+	21+	21+	[illegible]	[illegible]	21	[illegible]	[illegible]	21	21+	21	[illegible]
TIME	0345	[illegible]	[illegible]	[illegible]	0415	0430	[illegible]	[illegible]	0526	0646	0716	0746
NOV	[illegible]	[illegible]	[illegible]	[illegible]	.04	.05	.07	.08	[illegible]	.11	.12	.13
DATE	30	[illegible]	[illegible]	[illegible]	30	[illegible]	30	30	30	30	30	30
TIME	[illegible]	[illegible]	[illegible]	0350	0350	[illegible]	0350	0350	0350	0405	[illegible]	0430
DEC	[illegible]	.02	[illegible]	[illegible]	.03	.04	.05	.06	.06	.08	.09	.09
DATE	[illegible]	23+	23+	[illegible]	[illegible]	[illegible]	23	[illegible]	23	23	[illegible]	[illegible]
TIME	1650	[illegible]	[illegible]	[illegible]	1505	0345	[illegible]	0345	1240	1240	0700	[illegible]
YEAR	[illegible]	[illegible]	[illegible]	.51	[illegible]	.65	[illegible]	[illegible]	.96	[illegible]	[illegible]	1.15
MONTH	[illegible]	08	[illegible]	[illegible]	[illegible]	08	[illegible]	[illegible]	[illegible]	[illegible]	08	[illegible]

BECKLEY, WEST VIRGINIA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	[illegible]	.26	.29	.35	.40	.42	.42	.42	.42	.42
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10	10	11	11	[illegible]	[illegible]	11
TIME	2347	[illegible]	[illegible]	0002	2347	2347	2358	[illegible]	0015	0015	0015	0015
FEB	.06	[illegible]	.15	.17	.26	.30	.33	.36	.44	.45	.50	.58
DATE	12	[illegible]	[illegible]	12	12	[illegible]	12	12	[illegible]	12	04	04
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0229	[illegible]	0231	[illegible]	0232	1410	1400
MAR	[illegible]	[illegible]	.12	[illegible]	.18	.22	.31	.41	.46	.51	.57	.60
DATE	24	19	[illegible]	19	[illegible]	29	[illegible]	29	29	29	29	29
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0505	0540	0541	[illegible]	[illegible]	0650	0715
APR	[illegible]	.24	.24	.31	.34	.35	.40	.53	.66	.70	.71	.71
DATE	24	24	24	24	24	24	24	24	24	24	24	24
TIME	[illegible]	[illegible]	1631	[illegible]	1636	1651	1706	[illegible]	[illegible]	1806	1836	1906
MAY	.22	[illegible]	.44	.48	.70	[illegible]	1.22	1.58	1.66	1.68	1.69	1.70
DATE	[illegible]	29	29	29	29	[illegible]	30	30	30	30	30	30
TIME	2335	2335	[illegible]	2342	2345	2352	[illegible]	[illegible]	0045	[illegible]	0130	[illegible]
JUN	.74	[illegible]	1.23	1.34	1.52	1.59	1.59	1.60	1.62	1.62	1.62	1.62
DATE	[illegible]	26	26	26	26	26	26	26	26	26	26	26
TIME	1315	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1430	1450	[illegible]	1540	[illegible]
JUL	[illegible]	.98	1.03	1.05	1.11	[illegible]	1.14	1.14	1.14	1.14	1.14	1.14
DATE	17	17	17	17	17	17	17	17	17	17	17	17
TIME	[illegible]	[illegible]	1045	[illegible]	[illegible]	[illegible]	1130	1150	[illegible]	1230	1243	1243
AUG	[illegible]	[illegible]	.77	.92	[illegible]	[illegible]	1.06	1.06	1.06	1.06	[illegible]	1.06
DATE	[illegible]	[illegible]	11	11	11	[illegible]	11	[illegible]	11	11	11	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1134	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1150
SEP	[illegible]	[illegible]	.35	.37	.37	[illegible]	.45	.50	.50	.51	.56	.57
DATE	[illegible]	20	20	20	20	[illegible]	12	12	12	12	[illegible]	12
TIME	[illegible]	1535	1540	[illegible]	1600	[illegible]	1103	1103	[illegible]	1145	[illegible]	1230
OCT	.22	.31	.33	.34	.39	.44	.48	.50	.52	.56	.64	.70
DATE	[illegible]	10	10	10	16	16	[illegible]	[illegible]	[illegible]	[illegible]	16	[illegible]
TIME	[illegible]	2153	[illegible]	2203	1800	[illegible]	[illegible]	1843	1900	1922	1952	[illegible]
NOV	[illegible]	.21	.23	.27	.34	.35	.37	.39	.40	.44	.47	.49
DATE	[illegible]	12	12	12	[illegible]	[illegible]	12	12	[illegible]	[illegible]	12	[illegible]
TIME	[illegible]	1100	1103	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1122	[illegible]
DEC	.07	.11	.13	[illegible]	.20	.25	[illegible]	.35	.38	.39	.47	.54
DATE	31	31	31	31	31	31	[illegible]	[illegible]	31	31	31	31
TIME	1353	1359	1403	[illegible]	[illegible]	[illegible]	[illegible]	1432	[illegible]	[illegible]	1544	2000
YEAR	.74	[illegible]	[illegible]	1.34	1.52	1.59	[illegible]	1.60	1.66	1.68	1.69	1.70
MONTH	[illegible]	06	06	06	06	[illegible]	06	06	05	[illegible]	05	05

CHARLESTON, WEST VIRGINIA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	[illegible]	[illegible]	.19	[illegible]	.21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12	[illegible]	[illegible]	12	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1101	[illegible]	1505	[illegible]	1505	1505	1505
FEB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.24	.28	[illegible]	.37	.37	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24	[illegible]	24	24	[illegible]	24
TIME	[illegible]	[illegible]	[illegible]	0755	0800	[illegible]	0800	[illegible]	0815	0815	[illegible]	0815
MAR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.38	[illegible]	[illegible]	[illegible]	[illegible]	.78
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12
TIME	[illegible]	[illegible]	[illegible]	[illegible]	0803	[illegible]	[illegible]	0847	[illegible]	0930	0945	0945
APR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.73	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	03	29	[illegible]	[illegible]	[illegible]	24	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0310	[illegible]	1602	[illegible]
MAY	.28	[illegible]	[illegible]	.48	.76	[illegible]	[illegible]	1.24	[illegible]	1.24	1.27	1.29
DATE	[illegible]	[illegible]	[illegible]	[illegible]	22	22	[illegible]	22	22	22	22	22
TIME	[illegible]	[illegible]	1936	2003	1956	2011	2026	2036	2036	2036	2156	2226
JUN	[illegible]	[illegible]	[illegible]	[illegible]	1.20	1.34	1.42	1.44	1.45	1.45	1.45	1.45
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	26	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1625	1630	1647	1647	[illegible]	1647
JUL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.81	[illegible]	.81	.81	.81	.81
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	06	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	1700	[illegible]	[illegible]	[illegible]	1730	[illegible]	[illegible]	1730	1730
AUG	[illegible]	[illegible]	[illegible]	1.35	[illegible]	[illegible]	1.52	1.91	1.91	[illegible]	1.91	1.91
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14	[illegible]	[illegible]	[illegible]	14	14
TIME	1315	[illegible]	[illegible]	1327	1330	[illegible]	[illegible]	[illegible]	1425	[illegible]	1425	[illegible]
SEP	[illegible]	[illegible]	[illegible]	.22	[illegible]	.37	[illegible]	[illegible]	[illegible]	.67	.85	.95
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12	12	[illegible]	12	12	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0347	[illegible]	[illegible]	0347	0347	0347	0347
OCT	[illegible]	[illegible]	.11	.12	[illegible]	[illegible]	[illegible]	[illegible]	.30	[illegible]	.42	.48
DATE	[illegible]	17	[illegible]	[illegible]	01	[illegible]	[illegible]	[illegible]	17	[illegible]	[illegible]	[illegible]
TIME	[illegible]	0440	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1200	1300
NOV	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12	12	12	12	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	0355	0406	[illegible]	[illegible]	0455	0515	[illegible]	[illegible]	0631
DEC	[illegible]	[illegible]	[illegible]	.12	.14	[illegible]	.24	[illegible]	[illegible]	[illegible]	.48	.55
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	2037	2040	2100	[illegible]	2110	[illegible]	[illegible]	[illegible]	1730
YEAR	[illegible]	[illegible]	1.20	[illegible]	1.51	[illegible]	1.52	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	08	[illegible]	[illegible]	08	[illegible]	[illegible]

ELKINS, WEST VIRGINIA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.10	[illegible]	.18	[illegible]	.20	.20	.20	[illegible]	.21	[illegible]	[illegible]	.29
DATE	[illegible]	29	[illegible]	29	[illegible]	[illegible]	29	[illegible]	17	[illegible]	[illegible]	13
TIME	1432	[illegible]	[illegible]	1429	1417	1417	1417	1417	[illegible]	[illegible]	1202	1347
FEB	[illegible]	[illegible]	[illegible]	.10	[illegible]	[illegible]	[illegible]	.18	.19	[illegible]	.27	.35
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	23	[illegible]	23	[illegible]	23	[illegible]	23
TIME	[illegible]	[illegible]	0644	0708	0723	[illegible]	0745	0805	0825	0845	[illegible]	[illegible]
MAR	[illegible]	.07	[illegible]	[illegible]	.16	.22	.26	[illegible]	.31	[illegible]	[illegible]	.38
DATE	27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	07	07	[illegible]	07	24	24
TIME	0310	[illegible]	1017	[illegible]	1013	[illegible]	1043	1058	1117	[illegible]	[illegible]	1000
APR	[illegible]	.13	[illegible]	[illegible]	[illegible]	[illegible]	.35	[illegible]	[illegible]	[illegible]	.57	.71
DATE	[illegible]	29	29	29	29	[illegible]	29	29	[illegible]	29	[illegible]	[illegible]
TIME	0455	[illegible]	[illegible]	0511	[illegible]	[illegible]	0243	[illegible]	[illegible]	[illegible]	[illegible]	0500
MAY	[illegible]	.38	.45	.50	.88	[illegible]	.97	1.20	1.27	1.29	1.32	[illegible]
DATE	[illegible]	31	31	[illegible]	31	[illegible]	31	[illegible]	31	31	31	31
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1530	1530	1530	1445	1445	[illegible]	1445	1445
JUN	[illegible]	.70	.77	[illegible]	1.06	1.08	1.28	[illegible]	1.35	1.35	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	26	[illegible]	26	26	26	26	26	[illegible]
TIME	1314	1317	[illegible]	1327	1330	1345	1404	1419	[illegible]	1449	1519	1539
JUL	.15	[illegible]	[illegible]	[illegible]	[illegible]	.65	.65	.65	.65	.65	.65	.65
DATE	[illegible]	4	04	[illegible]	4	[illegible]	04	[illegible]	4	04	04	04
TIME	[illegible]	[illegible]	[illegible]	0002	[illegible]	0002	0002	[illegible]	0002	0002	0002	0002
AUG	[illegible]	.26	.31	.49	.60	.71	[illegible]	.79	.79	[illegible]	.90	[illegible]
DATE	14	13	13	13	13	13	[illegible]	[illegible]	14	14	14	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0015	0035	0055	0115	0145	0215
SEP	.18	[illegible]	[illegible]	.35	[illegible]	.37	.37	[illegible]	.40	[illegible]	[illegible]	.45
DATE	[illegible]	5	[illegible]	05	05	[illegible]	[illegible]	05	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	1923	[illegible]	1943	[illegible]	2008	2031	[illegible]	2106	[illegible]	2205
OCT	[illegible]	[illegible]	.18	[illegible]	.24	.28	.31	.32	[illegible]	.36	.37	.37
DATE	[illegible]	11	11	11	[illegible]	[illegible]	11	11	11	[illegible]	[illegible]	[illegible]
TIME	[illegible]	0309	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0309	1029	1029	[illegible]
NOV	.11	[illegible]	[illegible]	.18	.22	[illegible]	.27	.32	.38	[illegible]	.57	.62
DATE	[illegible]	[illegible]	[illegible]	[illegible]	12	12	12	[illegible]	[illegible]	[illegible]	12	12
TIME	0610	0615	[illegible]	0625	[illegible]	0650	1029	[illegible]	1108	1140	[illegible]	[illegible]
DEC	M	M	M	M	M	M	M	M	M	M	M	M
DATE												
TIME												
YEAR	.39	[illegible]	.77	[illegible]	1.06	1.08	[illegible]	1.35	1.35	1.35	1.35	[illegible]
MONTH	06	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	06	[illegible]	[illegible]	[illegible]	[illegible]	06

HUNTINGTON, WEST VIRGINIA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.23	[illegible]	.29	.33	.39
DATE	29	29	29	29	29	25	25	25	[illegible]	[illegible]	[illegible]	[illegible]
TIME	1502	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0930	0940	1335	1335	1335
FEB	[illegible]	[illegible]	.12	[illegible]	.15	[illegible]	[illegible]	.23	[illegible]	.33	.36	.37
DATE	23	23	23	23	23	23	23	[illegible]	23	23	23	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0735	[illegible]	[illegible]	[illegible]	[illegible]
MAR	.17	.21	.22	.25	.32	.37	.56	.69	.84	.97	1.08	[illegible]
DATE	[illegible]	[illegible]	[illegible]	12	[illegible]	12	12	12	[illegible]	[illegible]	12	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	0828	[illegible]	0815	[illegible]	0815	0815	0845	0900
APR	[illegible]	.34	.35	.35	[illegible]	[illegible]	.55	.65	.82	.88	[illegible]	1.05
DATE	03	03	03	03	24	24	24	24	24	24	24	24
TIME	0015	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1355	[illegible]	1445	1515	1530
MAY	.12	[illegible]	[illegible]	.29	[illegible]	.37	.41	.41	.47	.53	[illegible]	.68
DATE	1	01	01	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15	[illegible]	15	[illegible]
TIME	[illegible]	[illegible]	1045	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1450	1450	[illegible]	1515
JUN	[illegible]	.31	.35	.37	[illegible]	.65	.78	.80	[illegible]	.82	.97	[illegible]
DATE	[illegible]	[illegible]	[illegible]	26	[illegible]	26	26	26	[illegible]	26	26	26
TIME	1345	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1828	[illegible]	[illegible]	1928	2008	[illegible]
JUL	.27	.43	.58	.63	[illegible]	[illegible]	[illegible]	.84	[illegible]	.84	.84	.84
DATE	[illegible]	19	19	19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	1827	1832	[illegible]	[illegible]	1335	1350	1350	1350	1350	1350
AUG	.45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.60
DATE	[illegible]	14	[illegible]	14	[illegible]	[illegible]	[illegible]	14	14	[illegible]	[illegible]	14
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1625	[illegible]	1625	[illegible]	[illegible]	[illegible]	1625	1625
SEP	[illegible]	[illegible]	[illegible]	.35	.35	[illegible]	.52	.62	.73	.77	.86	.88
DATE	[illegible]	18	[illegible]	18	[illegible]	[illegible]	23	23	23	[illegible]	23	23
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2130	[illegible]	[illegible]	[illegible]	[illegible]
OCT	.17	.18	.18	[illegible]	.20	.22	.27	.31	.41	.48	[illegible]	.58
DATE	01	[illegible]	01	[illegible]	[illegible]	[illegible]	01	[illegible]	01	01	17+	01
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1725	1745	[illegible]	1845
NOV	.12	[illegible]	.18	[illegible]	[illegible]	[illegible]	.38	.40	[illegible]	[illegible]	.53	.57
DATE	[illegible]	[illegible]	[illegible]	12	[illegible]	[illegible]	[illegible]	12	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0800	[illegible]	[illegible]	0910	[illegible]
DEC	.05	.10	.11	.14	[illegible]	[illegible]	.30	.34	.38	.44	.50	.54
DATE	[illegible]	25	25	25	25	25	25	25	25	25	25	25
TIME	1220	[illegible]	[illegible]	2005	[illegible]	[illegible]	[illegible]	2105	[illegible]	[illegible]	2200	[illegible]
YEAR	.45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.60	1.60	[illegible]	[illegible]	[illegible]	[illegible]
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	08	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

MAXIMUM SHORT DURATION PRECIPITATION

[illegible]

JAN	[illegible]	.10	.11	.11	.12	.17	[illegible]	[illegible]	[illegible]	.25	.27	.27
DATE	[illegible]	25	[illegible]	25	[illegible]	25	25	[illegible]	25	[illegible]	[illegible]	25
TIME	[illegible]	[illegible]	[illegible]	1000	[illegible]	1030	1030	1030	1030	1030	1030	1030
FEB	.12	[illegible]	.20	.23	[illegible]	.45	[illegible]	.71	[illegible]	[illegible]	[illegible]	1.20
DATE	[illegible]	23	[illegible]	23	[illegible]	23	[illegible]	23	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	0345	[illegible]	[illegible]	0405	0420	0440	0500	0520	0550	[illegible]
MAR	.10	.20	[illegible]	.30	.37	.40	.40	[illegible]	.42	.50	[illegible]	.65
DATE	[illegible]	24	[illegible]	12	12	24	[illegible]	24	12	12	[illegible]	12
TIME	[illegible]	[illegible]	0415	0415	[illegible]	[illegible]	[illegible]	[illegible]	0850	[illegible]	0850	[illegible]
APR	[illegible]	[illegible]	.45	[illegible]	.48	[illegible]	[illegible]	.86	.93	1.07	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24	24	24
TIME	[illegible]	0030	[illegible]	0038	0038	[illegible]	0050	[illegible]	1249	1247	1247	1300
MAY	[illegible]	[illegible]	.39	[illegible]	[illegible]	.45	.51	[illegible]	[illegible]	.51	[illegible]	.55
DATE	[illegible]	30	[illegible]	30	[illegible]	30	[illegible]	[illegible]	30	30	[illegible]	29
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1437	1447	[illegible]	[illegible]	[illegible]	1601	[illegible]	2.43
JUN	[illegible]	.21	.22	.23	.24	.25	.27	.29	.31	[illegible]	.35	.35
DATE	[illegible]	20	17	[illegible]	[illegible]	17	17	[illegible]	17	[illegible]	[illegible]	[illegible]
TIME	0545	0547	[illegible]	2036	2042	2100	2115	2132	2148	2210	[illegible]	[illegible]
JUL	[illegible]	[illegible]	[illegible]	.50	.50	.51	.58	[illegible]	[illegible]	.71	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	04	[illegible]	[illegible]	[illegible]	[illegible]	04	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	0200	0208	0228	[illegible]	0315	[illegible]	[illegible]	[illegible]
AUG	[illegible]	[illegible]	.48	[illegible]	[illegible]	.50	[illegible]	[illegible]	[illegible]	[illegible]	.69	[illegible]
DATE	[illegible]	[illegible]	31	[illegible]	[illegible]	30	[illegible]	30	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	1343	[illegible]	2240	[illegible]	[illegible]	[illegible]	[illegible]	0025	0053
SEP	.39	[illegible]	[illegible]	[illegible]	.55	[illegible]	.61	.70	[illegible]	.88	1.00	1.03
DATE	[illegible]	8	[illegible]	[illegible]	18	8	23	23	[illegible]	23	[illegible]	23
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1830	1842	2300	2330	[illegible]	2315	[illegible]	2345
OCT	[illegible]	.27	.28	[illegible]	.36	.38	[illegible]	.52	[illegible]	.55	[illegible]	.71
DATE	[illegible]	10	10	[illegible]	[illegible]	10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17
TIME	[illegible]	[illegible]	[illegible]	1315	1325	[illegible]	[illegible]	[illegible]	[illegible]	1352	[illegible]	[illegible]
NOV	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.34	.35	.39	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	10	[illegible]	10	10	12	10	12	[illegible]	12	[illegible]	12
TIME	0300	[illegible]	[illegible]	0308	[illegible]	0330	0310	0335	0330	[illegible]	[illegible]	[illegible]
DEC	[illegible]	[illegible]	[illegible]	.12	[illegible]	[illegible]	[illegible]	.34	.42	[illegible]	.57	.60
DATE	[illegible]	[illegible]	[illegible]	25	[illegible]	25	[illegible]	25	25	25	[illegible]	25
TIME	[illegible]	0929	[illegible]	[illegible]	0945	1005	1015	1035	1055	1115	[illegible]	[illegible]
YEAR	.39	[illegible]	[illegible]	.55	.55	.55	.61	.86	.93	[illegible]	[illegible]	[illegible]
MONTH	[illegible]	09	[illegible]	[illegible]	[illegible]	[illegible]	09	04	04	[illegible]	[illegible]	[illegible]

[illegible]

JAN	[illegible]	[illegible]	.11	.12	.14	[illegible]	[illegible]	.26	.30	[illegible]	.40	.43
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10
TIME	[illegible]	2347	[illegible]	[illegible]	0230	0245	[illegible]	2220	[illegible]	0337	0337	0345
FEB	[illegible]	.09	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.32	.35	[illegible]	.51	.58
DATE	[illegible]	23	23	23	23	23	23	23	23	[illegible]	24	24
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2329	[illegible]	[illegible]	2330	[illegible]	[illegible]	0007
MAR	[illegible]	.07	[illegible]	.10	[illegible]	[illegible]	.22	.27	[illegible]	[illegible]	[illegible]	[illegible]
DATE	27	[illegible]	27	[illegible]	[illegible]	22	22	[illegible]	[illegible]	22	[illegible]	[illegible]
TIME	0023	0023	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0215	0218	0245	0216
APR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.05	[illegible]	[illegible]	1.31	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	28	[illegible]	28	[illegible]	[illegible]	28	[illegible]	[illegible]	28
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0255	0303	0307	0307	0307	0415	[illegible]
MAY	[illegible]	[illegible]	.28	.35	[illegible]	[illegible]	.65	[illegible]	[illegible]	[illegible]	.73	.75
DATE	[illegible]	[illegible]	05	05	[illegible]	[illegible]	05	05	05	05	05	05
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1924	[illegible]	[illegible]	[illegible]	2010	[illegible]	[illegible]	1950
JUN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.01	[illegible]	1.30	1.36	1.41	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	2207	2203	[illegible]	2241	2300	2252	[illegible]	2343
JUL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.34	.37	[illegible]	[illegible]	[illegible]	.45	.45
DATE	[illegible]	[illegible]	11	11	[illegible]	[illegible]	[illegible]	[illegible]	23	[illegible]	23	23
TIME	[illegible]	[illegible]	1703	[illegible]	[illegible]	2012	2028	[illegible]	[illegible]	2102	[illegible]	2202
AUG	[illegible]	.30	[illegible]	[illegible]	[illegible]	[illegible]	.60	.63	[illegible]	.80	.87	[illegible]
DATE	20	[illegible]	[illegible]	[illegible]	[illegible]	20	[illegible]	[illegible]	20	[illegible]	[illegible]	20
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1320	1340	[illegible]
SEP	.08	[illegible]	[illegible]	[illegible]	.18	[illegible]	.23	[illegible]	.27	[illegible]	[illegible]	.30
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	29	29	[illegible]	[illegible]
TIME	1050	[illegible]	1056	1100	[illegible]	1100	[illegible]	1125	[illegible]	1210	[illegible]	1310
OCT	[illegible]	.16	.17	[illegible]	.20	[illegible]	.26	[illegible]	[illegible]	[illegible]	.39	[illegible]
DATE	[illegible]	14	[illegible]	[illegible]	[illegible]	14	15	15	15	15	[illegible]	14
TIME	[illegible]	2321	[illegible]	2321	[illegible]	2321	0012	0012	0012	0012	[illegible]	2350
NOV	[illegible]	.09	[illegible]	[illegible]	.20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.35
DATE	[illegible]	[illegible]	29	[illegible]	29	29	[illegible]	[illegible]	30	[illegible]	[illegible]	30
TIME	[illegible]	[illegible]	[illegible]	[illegible]	2345	2350	[illegible]	0025	0045	0105	0135	0200
DEC	[illegible]	.07	[illegible]	[illegible]	.15	[illegible]	[illegible]	.29	.30	.30	[illegible]	[illegible]
DATE	[illegible]	14	14	[illegible]	[illegible]	14	14	14	[illegible]	14	[illegible]	14
TIME	0242	[illegible]	0245	0720	[illegible]	0245	0251	[illegible]	0315	0315	[illegible]	[illegible]
YEAR	.27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.05	[illegible]	1.30	1.36	1.41	1.42
MONTH	[illegible]	06	[illegible]	06	[illegible]	[illegible]	04	[illegible]	06	06	[illegible]	05

[illegible]

JAN	.02	.04	.05	.06	[illegible]	.12	[illegible]	.21	.25	.29	.34	[illegible]
DATE	20	20	[illegible]	[illegible]	20	20	20	[illegible]	[illegible]	[illegible]	20	20
TIME	2030	2030	2045	2030	2030	2030	2030	[illegible]	[illegible]	[illegible]	2015	2015
FEB	[illegible]	[illegible]	.02	.02	.03	[illegible]	.06	.07	.08	.09	.11	.12
DATE	14	[illegible]	14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14	14	[illegible]	14
TIME	[illegible]	[illegible]	[illegible]	2045	2100	2100	2130	2140	2200	[illegible]	2245	2315
MAR	[illegible]	[illegible]	[illegible]	[illegible]	.03	.04	.05	[illegible]	.08	.09	[illegible]	[illegible]
DATE	[illegible]	[illegible]	26	[illegible]	26	26	[illegible]	[illegible]	[illegible]	[illegible]	26	[illegible]
TIME	0150	0159	0155	0200	0210	0225	0240	0300	[illegible]	0815	[illegible]	[illegible]
APR	.02	[illegible]	.05	[illegible]	.08	[illegible]	[illegible]	.19	.22	.25	.28	.31
DATE	[illegible]	[illegible]	17	[illegible]	17	[illegible]	[illegible]	[illegible]	17	[illegible]	17	[illegible]
TIME	0835	0900	[illegible]	0905	0905	[illegible]	1000	[illegible]	[illegible]	1030	1045	1055
MAY	[illegible]	.04	[illegible]	.08	.11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.41
DATE	[illegible]	20	[illegible]	[illegible]	20	20	[illegible]	[illegible]	20	20	20	[illegible]
TIME	[illegible]	[illegible]	2115	2120	[illegible]	[illegible]	[illegible]	2220	2240	2300	2330	2359
JUN	.12	[illegible]	[illegible]	.26	[illegible]	.33	.35	[illegible]	.39	[illegible]	[illegible]	.42
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19	[illegible]	[illegible]	[illegible]
TIME	[illegible]	1400	[illegible]	[illegible]	1415	[illegible]	[illegible]	0125	[illegible]	0205	0235	0305
JUL	[illegible]	[illegible]	[illegible]	[illegible]	.16	.16	.16	.16	.16	.17	.17	.17
DATE	02	02	[illegible]	02	[illegible]	02	02	[illegible]	[illegible]	02	02	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2008	2023	2043	[illegible]	[illegible]	[illegible]	2223
AUG	[illegible]	[illegible]	[illegible]	.05	.05	.05	.05	.05	.05	.05	.05	.05
DATE	15	[illegible]	[illegible]	15	15	[illegible]	[illegible]	15	15	15	15	[illegible]
TIME	1425	[illegible]	1435	[illegible]	1450	1505	1520	[illegible]	1600	1620	[illegible]	1720
SEP	.04	.08	[illegible]	[illegible]	.15	[illegible]	.20	[illegible]	[illegible]	.23	.25	.25
DATE	[illegible]	11	[illegible]	[illegible]	[illegible]	[illegible]	11	11	[illegible]	11	[illegible]	[illegible]
TIME	[illegible]	0140	[illegible]	0145	0145	[illegible]	0145	[illegible]	[illegible]	0200	0200	0230
OCT	[illegible]	[illegible]	[illegible]	.09	[illegible]	[illegible]	[illegible]	.23	.26	[illegible]	.32	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	12	[illegible]	[illegible]	12	[illegible]	12	[illegible]	12
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2150	[illegible]	[illegible]	2215	[illegible]	2315
NOV	.02	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.07	[illegible]	.08	.09	.10	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	1435	[illegible]	1445	[illegible]	1500	1500	[illegible]	[illegible]	[illegible]	[illegible]	0755	[illegible]
DEC	[illegible]	[illegible]	[illegible]	.04	.05	[illegible]	.07	.08	.09	[illegible]	.12	[illegible]
DATE	31	[illegible]	[illegible]	[illegible]	31	[illegible]	[illegible]	31	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	1720	1730	1745	1805	1825	[illegible]	[illegible]	[illegible]	[illegible]
YEAR	.16	[illegible]	[illegible]	.26	.27	[illegible]	.35	.37	.39	.41	[illegible]	[illegible]
MONTH	[illegible]	[illegible]	[illegible]	06	[illegible]	06	06	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

MAXIMUM SHORT DURATION PRECIPITATION

Maximum precipitation in inches (5 to 180 minutes)

[illegible]TTE, ALASKA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	.10	[illegible]	.14	.19	.24	.33	[illegible]	.39	.40	.52	.57
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19	[illegible]	[illegible]	19	19	19
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0330	0353	0432	0331	0331
FEB	M	M	M	M	M	M	M	M	M	M	M	M
DATE												
TIME												
MAR	[illegible]	.07	[illegible]	[illegible]	.13	.16	.17	[illegible]	.21	.23	.28	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13	[illegible]	13	[illegible]	[illegible]	13	22
TIME	[illegible]	[illegible]	[illegible]	[illegible]	2345	[illegible]	2359	2359	2359	[illegible]	2359	1551
APR	.06	[illegible]	[illegible]	[illegible]	.12	.15	.19	.24	.27	.34	.40	.49
DATE	[illegible]	[illegible]	[illegible]	[illegible]	17	[illegible]	[illegible]	17	17	[illegible]	17	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1900	1900	[illegible]	[illegible]	1900	[illegible]	[illegible]
MAY	[illegible]	.08	[illegible]	.12	[illegible]	[illegible]	.23	.26	[illegible]	.32	.33	.43
DATE	[illegible]	[illegible]	17	[illegible]	[illegible]	[illegible]	[illegible]	17	[illegible]	17	17	15
TIME	[illegible]	[illegible]	1445	[illegible]	[illegible]	1445	1445	1445	1445	[illegible]	1445	0500
JUN	[illegible]	[illegible]	.13	[illegible]	[illegible]	[illegible]	[illegible]	.25	[illegible]	.35	.40	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12	[illegible]	12	12	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0820	[illegible]	1700	1700	1700	1700	1700
JUL	[illegible]	[illegible]	[illegible]	.12	[illegible]	.24	[illegible]	.40	.49	[illegible]	[illegible]	[illegible]
DATE	[illegible]	23	[illegible]	[illegible]	23	[illegible]	[illegible]	[illegible]	[illegible]	23	23	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1500	1500	1437	1416	[illegible]	1414	1315	1300
AUG	[illegible]	[illegible]	[illegible]	.10	.13	.17	[illegible]	[illegible]	[illegible]	.32	.39	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	06	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0659	0659	[illegible]	2030	2030	[illegible]
SEP	[illegible]	[illegible]	.12	[illegible]	[illegible]	[illegible]	.29	.34	[illegible]	.54	.65	.74
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	03	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1013	2359	[illegible]	1207	1230	[illegible]
OCT	[illegible]	.14	[illegible]	[illegible]	[illegible]	.21	.26	[illegible]	[illegible]	[illegible]	.48	.53
DATE	17	[illegible]	[illegible]	[illegible]	17	30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1900	[illegible]	[illegible]	[illegible]	1927	1927	1927
NOV	[illegible]	[illegible]	.10	[illegible]	[illegible]	[illegible]	[illegible]	.42	[illegible]	.56	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11
TIME	[illegible]	[illegible]	[illegible]	2143	0416	[illegible]	[illegible]	[illegible]	0405	[illegible]	[illegible]	0250
DEC	[illegible]	[illegible]	[illegible]	.14	[illegible]	[illegible]	[illegible]	.44	.55	[illegible]	.83	[illegible]
DATE	[illegible]	[illegible]	29	[illegible]	[illegible]	29	[illegible]	29	29	[illegible]	29	[illegible]
TIME	[illegible]	[illegible]	[illegible]	0710	0710	[illegible]	0802	[illegible]	[illegible]	0845	[illegible]	[illegible]
YEAR	[illegible]	[illegible]	.15	[illegible]	.20	[illegible]	.35	[illegible]	.55	[illegible]	.83	1.01
MONTH	[illegible]	[illegible]	10	[illegible]	[illegible]	[illegible]	[illegible]	12	[illegible]	12	[illegible]	[illegible]

[illegible], ALASKA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.20	.20	.22	.27	.30
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11	[illegible]	11	[illegible]	[illegible]	11
TIME	1050	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1230	1300	[illegible]	1300	[illegible]	1315
FEB	.02	[illegible]	[illegible]	[illegible]	.07	[illegible]	.12	[illegible]	.17	[illegible]	[illegible]	.25
DATE	[illegible]	21	21	21	[illegible]	21	[illegible]	[illegible]	[illegible]	21	21	[illegible]
TIME	[illegible]	[illegible]	[illegible]	2035	2045	[illegible]	[illegible]	2138	[illegible]	[illegible]	2150	[illegible]
MAR	[illegible]	[illegible]	[illegible]	[illegible]	.06	[illegible]	[illegible]	.12	.14	.15	.16	.18
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	29	[illegible]	29	[illegible]	[illegible]	29
TIME	[illegible]	[illegible]	[illegible]	0952	1003	[illegible]	0650	[illegible]	0725	[illegible]	[illegible]	0852
APR	.05	[illegible]	[illegible]	.09	[illegible]	[illegible]	[illegible]	.19	.21	.21	[illegible]	.25
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18	[illegible]	18	[illegible]
TIME	1635	[illegible]	[illegible]	1408	[illegible]	0423	[illegible]	0423	[illegible]	0500	0530	0600
MAY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.30	.35	.40	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	28	[illegible]	[illegible]	[illegible]	[illegible]	29	[illegible]	[illegible]
TIME	[illegible]	1907	[illegible]	[illegible]	1905	1903	[illegible]	[illegible]	0110	[illegible]	0150	0220
JUN	[illegible]	[illegible]	[illegible]	[illegible]	.09	.10	.11	.12	.15	.17	.19	.22
DATE	[illegible]	[illegible]	[illegible]	10	[illegible]	10	[illegible]	[illegible]	[illegible]	09	[illegible]	09
TIME	[illegible]	[illegible]	1520	[illegible]	1532	[illegible]	1545	[illegible]	[illegible]	1145	1217	[illegible]
JUL	[illegible]	[illegible]	[illegible]	.13	[illegible]	[illegible]	.21	[illegible]	.27	[illegible]	.32	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	02
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1305	[illegible]	2105	2107	[illegible]	[illegible]	2131	2147
AUG	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.13	.14	[illegible]	.18	.21
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	20	[illegible]	31	31	[illegible]	[illegible]	19
TIME	[illegible]	[illegible]	[illegible]	2218	[illegible]	2230	2327	[illegible]	2344	2347	1140	[illegible]
SEP	.10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.51	.54	.63	.71	.76	.78
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13	[illegible]	[illegible]	13
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2207	[illegible]	[illegible]	2250	2310	2323	2327
OCT	[illegible]	.04	[illegible]	.06	[illegible]	.10	.13	.14	.16	[illegible]	[illegible]	[illegible]
DATE	30	30	[illegible]	30	[illegible]	[illegible]	03	03	[illegible]	[illegible]	[illegible]	[illegible]
TIME	0926	[illegible]	[illegible]	0955	[illegible]	[illegible]	[illegible]	0448	0503	0505	1150	1222
NOV	[illegible]	.03	[illegible]	.06	[illegible]	[illegible]	[illegible]	.17	.20	.22	[illegible]	.29
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11	11	[illegible]
TIME	[illegible]	[illegible]	1948	[illegible]	2006	[illegible]	[illegible]	[illegible]	[illegible]	2038	[illegible]	2137
DEC	[illegible]	[illegible]	[illegible]	[illegible]	.12	[illegible]	.14	.19	.21	[illegible]	[illegible]	.34
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19	[illegible]	18	[illegible]	[illegible]
TIME	1837	[illegible]	[illegible]	[illegible]	[illegible]	1837	2355	[illegible]	2355	2355	2355	[illegible]
YEAR	.10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.51	.54	.63	[illegible]	.76	.78
MONTH	09	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	09	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible], ALASKA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	[illegible]	.01	[illegible]	.02	.03	[illegible]	[illegible]	[illegible]	[illegible]	.06
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	1020	[illegible]	1045	[illegible]	1100	[illegible]	[illegible]	[illegible]	[illegible]
FEB	M	M	M	M	M	M	M	M	M	M	M	M
DATE												
TIME												
MAR	M	M	M	M	M	M	M	M	M	M	M	M
DATE												
TIME												
APR	M	M	M	M	M	M	M	M	M	M	M	M
DATE												
TIME												
MAY	M	M	M	M	M	M	M	M	M	M	M	M
DATE												
TIME												
JUN	M	M	M	M	M	M	M	M	M	M	M	M
DATE												
TIME												
JUL	[illegible]	[illegible]	T	[illegible]	T	T		T	[illegible]	.03	[illegible]	[illegible]
DATE									[illegible]	[illegible]	[illegible]	[illegible]
TIME									[illegible]	[illegible]	[illegible]	1800
AUG	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.12	[illegible]	[illegible]	[illegible]	[illegible]	.19
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1700	1720	[illegible]	[illegible]	[illegible]	[illegible]
SEP	.01	[illegible]	[illegible]	.03	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.13	[illegible]	.18
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	09	[illegible]	[illegible]	09	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1200	[illegible]	1240	[illegible]	1330	[illegible]
OCT	[illegible]	.03	[illegible]	[illegible]	[illegible]	[illegible]	.15	.19	.24	[illegible]	.31	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	09	09	[illegible]	[illegible]	[illegible]	09
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0220	[illegible]	0300	[illegible]	[illegible]
NOV	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.06	.06	.07	[illegible]	.11	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2220	[illegible]	[illegible]	[illegible]	[illegible]
DEC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.02	[illegible]	[illegible]	[illegible]	.05	.05
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1100	[illegible]	[illegible]
YEAR	[illegible]	[illegible]	[illegible]	[illegible]	.08	[illegible]	.15	[illegible]	.24	.26	.31	[illegible]
MONTH	[illegible]	[illegible]	[illegible]	10	[illegible]	10	[illegible]	[illegible]	[illegible]	10	[illegible]	10

COLD BAY, ALASKA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	M	M	M	M	M	M	M	M	M	M	M	M
DATE												
TIME												
FEB	M	M	M	M	M	M	M	M	M	M	M	M
DATE												
TIME												
MAR	[illegible]	.07	[illegible]	[illegible]	[illegible]	[illegible]	.27	.32	.33	.37	.42	.47
DATE	09	09	09	[illegible]	[illegible]	[illegible]	07	[illegible]	07	[illegible]	[illegible]	07
TIME	[illegible]	0648	0700	0700	[illegible]	[illegible]	0700	0700	0700	0700	0700	0700
APR	[illegible]	.04	[illegible]	[illegible]	[illegible]	.08	.10	.12	.15	[illegible]	[illegible]	.18
DATE	03	[illegible]	[illegible]	03	03	[illegible]	[illegible]	[illegible]	[illegible]	04	[illegible]	24
TIME	[illegible]	[illegible]	[illegible]	2220	2230	[illegible]	[illegible]	2320	2344	0000	0000	0000
MAY	[illegible]	.03	[illegible]	[illegible]	.05	[illegible]	[illegible]	.08	.10	.11	.13	.16
DATE	[illegible]	[illegible]	24	[illegible]	24	[illegible]	09	[illegible]	[illegible]	[illegible]	09	09
TIME	[illegible]	0940	0940	0945	0945	[illegible]	[illegible]	[illegible]	[illegible]	1130	1045	1115
JUN	[illegible]	[illegible]	[illegible]	.10	.16	[illegible]	[illegible]	.35	.43*	[illegible]	.53	.56
DATE	[illegible]	28	[illegible]	[illegible]	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	0345	[illegible]	0215	0220	0215	0229	0230	0250	0300	0245	[illegible]	0350
JUL	.03	[illegible]	[illegible]	.07	[illegible]	[illegible]	.17	.21	[illegible]	.29	.35	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	09	09	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0345	[illegible]	[illegible]	0830	0900	[illegible]	0900
AUG	[illegible]	[illegible]	[illegible]	.07	[illegible]	[illegible]	.13	.15	.16	.16	[illegible]	.24
DATE	[illegible]	18	[illegible]	[illegible]	[illegible]	04	04	[illegible]	[illegible]	04	[illegible]	04
TIME	[illegible]	[illegible]	[illegible]	2140	2200	[illegible]	2214	[illegible]	2025	[illegible]	2215	[illegible]
SEP	[illegible]	[illegible]	[illegible]	[illegible]	.11	.15	.20	[illegible]	.25	[illegible]	[illegible]	.32
DATE	[illegible]	17	[illegible]	[illegible]	[illegible]	17	17	[illegible]	[illegible]	[illegible]	17	[illegible]
TIME	0150	[illegible]	[illegible]	[illegible]	0200	[illegible]	[illegible]	0240	0240	0300	[illegible]	0300
OCT	.02	[illegible]	[illegible]	.05	.08	.12	.14	[illegible]	.21	[illegible]	[illegible]	.36
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	09	09	[illegible]	[illegible]	09	[illegible]	[illegible]
TIME	1005	[illegible]	[illegible]	[illegible]	[illegible]	1145	1200	1200	[illegible]	1200	[illegible]	1130
NOV	[illegible]	.05	[illegible]	[illegible]	.08	.09	.11	.13	.15	.17	.22	.27
DATE	06	[illegible]	[illegible]	[illegible]	[illegible]	06	[illegible]	06	[illegible]	06	[illegible]	[illegible]
TIME	0347	[illegible]	[illegible]	[illegible]	[illegible]	0400	[illegible]	0415	0440	0530	0600	0600
DEC	[illegible]	[illegible]	[illegible]	[illegible]	.12	[illegible]	.20	.23	.29	.32	[illegible]	.42
DATE	[illegible]	[illegible]	29	[illegible]	29	29	29	[illegible]	29	29	29	[illegible]
TIME	1805	[illegible]	[illegible]	[illegible]	1830	[illegible]	1900	[illegible]	1940	2000	2050	2100
YEAR	[illegible]	[illegible]	[illegible]	[illegible]	.16	.24	.29	.35	.43*	[illegible]	[illegible]	.56
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

KING SALMON, ALASKA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	[illegible]	.05	[illegible]	[illegible]	.07	.10	[illegible]	.11	[illegible]	[illegible]
DATE	[illegible]	[illegible]	10	[illegible]	[illegible]	[illegible]	17	[illegible]	17	17	[illegible]	23
TIME	2250	[illegible]	2250	[illegible]	[illegible]	[illegible]	[illegible]	0415	[illegible]	[illegible]	0800	[illegible]
FEB	.01	.02	[illegible]	.02	.03	[illegible]	.06	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	24	24	[illegible]	[illegible]	24	24	[illegible]	[illegible]	24	24
TIME	[illegible]	[illegible]	1700	[illegible]	1946	[illegible]	1956	1918	1931	2030	[illegible]	[illegible]
MAR	.01	[illegible]	[illegible]	.03	[illegible]	[illegible]	.06	[illegible]	.07	.09	.11	[illegible]
DATE	29	[illegible]	[illegible]	30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	2305	0025	0030	[illegible]	[illegible]	[illegible]	0050	0050	0330	0330	0400	[illegible]
APR	[illegible]	.03	[illegible]	.03	.04	[illegible]	.08	.10	.12	.12	[illegible]	.18
DATE	[illegible]	05	[illegible]	05	05	05	05	05	[illegible]	05	05	05
TIME	0356	[illegible]	[illegible]	0405	1700	1715	0215	0235	0245	0335	[illegible]	[illegible]
MAY	.02	[illegible]	.04	[illegible]	[illegible]	.09	.09	.09	.09	[illegible]	.09	.09
DATE	17	[illegible]	17	17	17	[illegible]	17	17	17	17	17	17
TIME	1324	1330	1345	[illegible]	1350	[illegible]	1400	1400	1440	[illegible]	[illegible]	1440
JUN	.06	[illegible]	.12	.13	.19	.24	.26	.26	.26	.26	.26	.26
DATE	[illegible]	[illegible]	10	10	[illegible]	[illegible]	10	[illegible]	[illegible]	10	10	[illegible]
TIME	1920	[illegible]	[illegible]	[illegible]	1930	1925	1930	1930	[illegible]	1930	1930	1930
JUL	.03	[illegible]	[illegible]	[illegible]	.05	.06	.06	[illegible]	.10	[illegible]	[illegible]	.15
DATE	[illegible]	[illegible]	29	[illegible]	[illegible]	29	[illegible]	29	29	[illegible]	[illegible]	[illegible]
TIME	0540	[illegible]	0550	[illegible]	0600	0600	[illegible]	0600	[illegible]	0400	[illegible]	0400
AUG	[illegible]	[illegible]	[illegible]	[illegible]	.12	[illegible]	[illegible]	.22	[illegible]	.23	.24	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	04	[illegible]	[illegible]	04	[illegible]	[illegible]
TIME	1946	1945	[illegible]	[illegible]	2000	[illegible]	2030	2030	2040	2040	[illegible]	2130
SEP	.04	[illegible]	.08	[illegible]	[illegible]	.15	.18	.21	.26	[illegible]	.36	.39
DATE	[illegible]	[illegible]	[illegible]	05	[illegible]	[illegible]	05	05	[illegible]	[illegible]	05	05
TIME	1925	[illegible]	[illegible]	[illegible]	2015	[illegible]	[illegible]	[illegible]	[illegible]	2015	2045	[illegible]
OCT	[illegible]	.04	[illegible]	[illegible]	.08	[illegible]	.14	[illegible]	[illegible]	.26	[illegible]	.36
DATE	[illegible]	[illegible]	10	[illegible]	[illegible]	[illegible]	09	[illegible]	[illegible]	09	09	09
TIME	0510	[illegible]	0506	0506	2025	1955	2015	[illegible]	[illegible]	2035	2035	2105
NOV	.01	.02	[illegible]	.03	.04	.06	.07	.09	.10	.11	.13	.15
DATE	28	[illegible]	28	28	[illegible]	28	[illegible]	28	28	[illegible]	28	28
TIME	0410	0410	[illegible]	0420	[illegible]	0445	0500	0445	0540	0600	0630	0700
DEC	[illegible]	.03	[illegible]	[illegible]	.04	.06	.07	.08	.10	.12	.15	.18
DATE	[illegible]	[illegible]	[illegible]	12	[illegible]	16	16	16	[illegible]	[illegible]	[illegible]	[illegible]
TIME	1840	1840	[illegible]	[illegible]	1840	1255	[illegible]	1255	1255	1345	1630	1700
YEAR	[illegible]	.11	.12	[illegible]	.19	.24	.26	.26	[illegible]	[illegible]	.36	.39
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	09

YAKUTAT, ALASKA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	.07	.10	[illegible]	[illegible]	.24	[illegible]	.39	[illegible]	.53	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	18	[illegible]	[illegible]	18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	0820	1129	[illegible]	[illegible]	1145	1145	1205	1220	1235	1245	1245	1330
FEB	.06	.07	[illegible]	.10	.12	[illegible]	[illegible]	[illegible]	.30	[illegible]	[illegible]	.48
DATE	[illegible]	19	[illegible]	[illegible]	21	25	18	18	[illegible]	[illegible]	21	21
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1505	1845	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1920
MAR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.38	[illegible]	.51
DATE	[illegible]	[illegible]	24	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	1050	[illegible]	[illegible]	1430	1430	1430	1430	1430	1430
APR	[illegible]	[illegible]	[illegible]	.08	.11	[illegible]	[illegible]	.28	.34	.40	.48	.56
DATE	[illegible]	26	[illegible]	[illegible]	17	17	[illegible]	17	[illegible]	17	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1530	[illegible]	1555	[illegible]	1710	[illegible]	1710	1710
MAY	.03	[illegible]	[illegible]	.07	[illegible]	.14	.18	.23	.28	[illegible]	[illegible]	.45
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	20	20	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	1735	0655	0655	0655	0655	0655	[illegible]	[illegible]	0755
JUN	[illegible]	[illegible]	.10	.13	.18	[illegible]	[illegible]	[illegible]	.31	.33	[illegible]	.38
DATE	[illegible]	[illegible]	[illegible]	10	[illegible]	10	10	[illegible]	05	[illegible]	[illegible]	05
TIME	[illegible]	2145	[illegible]	[illegible]	2150	[illegible]	2200	1540	1550	[illegible]	[illegible]	[illegible]
JUL	.10	[illegible]	[illegible]	.25	.26	[illegible]	.30	.31	.36	.36	[illegible]	.42
DATE	[illegible]	[illegible]	[illegible]	[illegible]	21	21	[illegible]	[illegible]	21	21	21	21
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0120	0140	[illegible]	[illegible]	0145
AUG	[illegible]	.04	[illegible]	[illegible]	[illegible]	.13	.15	.18	.21	.23	[illegible]	.27
DATE	[illegible]	26	[illegible]	26	[illegible]	[illegible]	26	26	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	0420	0415	[illegible]	0440	0445	0510	0525	0545	[illegible]	0640
SEP	[illegible]	.17	[illegible]	[illegible]	[illegible]	.37	.46	[illegible]	[illegible]	[illegible]	[illegible]	1.26
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	30	30	[illegible]	[illegible]	30	[illegible]
TIME	1742	[illegible]	1752	1755	[illegible]	1752	0555	0630	[illegible]	[illegible]	0740	0810
OCT	[illegible]	[illegible]	[illegible]	.18	[illegible]	[illegible]	.45	.55	.65	[illegible]	.89	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12	[illegible]	12	[illegible]	12	12	12
TIME	[illegible]	0425	[illegible]	[illegible]	[illegible]	1235	[illegible]	1310	[illegible]	1350	[illegible]	1400
NOV	.06	[illegible]	[illegible]	[illegible]	.14	.18	[illegible]	.31	.36	[illegible]	[illegible]	.46
DATE	[illegible]	[illegible]	[illegible]	[illegible]	11	11	[illegible]	[illegible]	11	11	[illegible]	11
TIME	1710	[illegible]	[illegible]	[illegible]	0040	[illegible]	0110	[illegible]	0150	[illegible]	0240	0310
DEC	[illegible]	[illegible]	[illegible]	.13	[illegible]	.21	.30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18	18	16	[illegible]	[illegible]	[illegible]	[illegible]
TIME	2110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2325	[illegible]	1030	1030	[illegible]	1030
YEAR	[illegible]	[illegible]	.22	[illegible]	[illegible]	[illegible]	[illegible]	.56	[illegible]	[illegible]	1.06	[illegible]
MONTH	09	[illegible]	09	[illegible]	09	09	[illegible]	[illegible]	[illegible]	09	[illegible]	[illegible]

FAIRBANKS, ALASKA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.03	.03	.04	.04	.05	.06	.07	.09	.11	.13	.14	.15
DATE	27	27	27	27	27	27	27	27	27	27	27	27
TIME	[illegible]	1303	1307	1307	1302	1335	1400	1420	1440	1500	1530	1600
FEB	[illegible]	[illegible]	.02	.02	.02	[illegible]	.02	.02	.02	[illegible]	[illegible]	.02
DATE	19	[illegible]	19	19	19	[illegible]	19	19	[illegible]	19	19	19
TIME	1045	1045	1045	1045	1045	1045	1045	1045	1045	1045	1045	1045
MAR	[illegible]	.02	[illegible]	.02	.02	[illegible]	.04	.05	.05	[illegible]	.06	.06
DATE	29	29	29+	29+	29+	29	29	[illegible]	29	29	29	29
TIME	[illegible]	0710	0745	[illegible]	0730	0745	[illegible]	0820	0840	0800	0900	0900
APR	[illegible]	[illegible]	[illegible]	[illegible]	.03	.04	.04	.05	.06	.07	.08	.09
DATE	[illegible]	[illegible]	15+	15+	[illegible]	14	14	14	14	14	14	[illegible]
TIME	0440	0440	0440	0440	2255	2300	2300	2305	2300	2305	2305	2315
MAY	.06	.07	.07	.07	.09	.12	.15	.18	.20	.21	.22	.23
DATE	22	22	22	22	16	16	16	16	16	16	16	16
TIME	1240	1240	1240	1240	2050	2052	2052	2052	2107	2122	2154	2219
JUN	.11	.14	.14	.14	.14	.16	.16	.19	.24	.27	.29	.29
DATE	14	14	14	14	14	20	20	20	20	20	20	20
TIME	1103	[illegible]	1113	1116	1130	1356	1410	1428	1440	1446	1513	1513
JUL	.16	.30	.34	.43	[illegible]	.55	.61	.64	.66	.66	.66	.66
DATE	[illegible]	[illegible]	20	20	20	20	20	20	20	20	20	20
TIME	[illegible]	[illegible]	2220	2220	2225	2235	2250	2310	2330	2350	2350	2350
AUG	.16	.18	.18	.18	.18	.18	.18	.21	.25	.30	.30	.30
DATE	15	15	15	15	15	15	15	16	15	15	15	15
TIME	1830	1835	1840	1845	1855	[illegible]	[illegible]	0420	2005	2025	2055	2125
SEP	.01	.02	.02	.02	.02	.02	.02	.02	.03	.03	.03	.04
DATE	20	20	20	20	20	20	20	20	05	05	05	11
TIME	1420	1425	1425	1425	1425	1425	1425	1425	1545	1545	1545	[illegible]
OCT	.02	.03	.03	.03	.03	.03	.04	.04	.05	.05	.06	.07
DATE	12	12	12	12	12	12	21	21	12	12	12	12
TIME	1945	1950	1950	1950	1950	1950	0440	0440	1950	1950	1950	1950
NOV	.02	.03	.03	.04	.05	.07	.07	.09	.12	.14	.16	.16
DATE	[illegible]	27	27	27	27	27	27	27	27	27	27	27
TIME	2345	0140	0140	0140	0140	[illegible]	0140	0140	0140	[illegible]	0210	0240
DEC	.02	.02	.03	.04	.04	.05	.06	.06	.07	.07	.07	.07
DATE	16	16	16	16	16	16	16	16	16	16	16	16
TIME	1230	1235	1240	1245	1255	1310	1325	1345	1405	1425	1455	1525
YEAR	.16	.30	.34	.43	[illegible]	.55	.61	.64	.66	.66	.66	.66
MONTH	08+	07	07	07	07	[illegible]	07	07	07	07	07	07

MC GRATH, ALASKA

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	.02	[illegible]	.04	[illegible]	.08	.10	[illegible]	.14	[illegible]	.19	.22
DATE	25	25	25	25	25	25	25	25	25	25	25	25
TIME	2000	2000	[illegible]	2000	2000	2000	2000	2000	2000	2000	2000	2000
FEB	[illegible]	.03	.04	.05	.06	[illegible]	.06	.07	.07	.07	.07	.07
DATE	26	26	26	26	26	26	26	26	26	26	26	27
TIME	2157	[illegible]	[illegible]	2212	2222	2237	2252	2312	2332	2352	2317	0005
MAR	.02	[illegible]	.02	.02	.02	.03	.03	[illegible]	.05	.06	[illegible]	.08
DATE	03	[illegible]	03	[illegible]	03	[illegible]	03	[illegible]	03	03	03	03
TIME	1938	[illegible]	1938	1938	1938	1938	1938	1938	1938	1938	1938	1938
APR	.02	.02	[illegible]	.03	[illegible]	[illegible]	.06	.06	.07	[illegible]	.10	.11
DATE	14	14	14	14	[illegible]	14	[illegible]	14	14	14	14	[illegible]
TIME	[illegible]	1600	1600	1600	1600	1600	1600	[illegible]	[illegible]	[illegible]	1600	1600
MAY	.03	[illegible]	[illegible]	.04	.04	.06	.07	.07	.07	[illegible]	.10	.13
DATE	29	29	29	29	29	21	21	29	29	29	29	29
TIME	[illegible]	[illegible]	[illegible]	1305	1305	[illegible]	1652	1305	1305	1305	1305	1405
JUN	.15	.18	.21	.24	.27	.27	.27	.27	.27	.27	.27	.27
DATE	14	14	14	14	14	[illegible]	14	14	14	14	14	[illegible]
TIME	1217	1217	[illegible]	1229	1234	1249	1310	1310	1310	1310	1310	1310
JUL	.14	[illegible]	[illegible]	.20	.29	.42	.52	[illegible]	.75	.83	.94*	1.11
DATE	25	25	25	25	16	[illegible]	16	16	[illegible]	16	[illegible]	[illegible]
TIME	1256	[illegible]	1306	[illegible]	[illegible]	0100	[illegible]	[illegible]	[illegible]	0200	[illegible]	0200
AUG	.30*	[illegible]	.88	1.02*	1.24	1.32*	1.36	1.36	1.36*	1.36	1.36*	1.36
DATE	18	18	18	18	[illegible]	18	18	18	18	[illegible]	18	[illegible]
TIME	[illegible]	[illegible]	1613	1615	1617	1625	1640	1702	1708	1708	1708	1815
SEP	.03	.04	[illegible]	[illegible]	.07	.09	[illegible]	.13	.17	.20	.23	.27
DATE	17	17	17	17	17	[illegible]	17	17	17	[illegible]	17	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1122	[illegible]	1122	[illegible]	[illegible]	1122	1122	1122
OCT	.05	[illegible]	.09	.11	.11	[illegible]	.13	.13	.15	.21	.24	.28
DATE	22	22	22	22	22	[illegible]	22	22	22	22	22	22
TIME	1830	[illegible]	[illegible]	1830	1830	[illegible]	1830	1830	1830	1830	1830	1830
NOV	.01	.01	[illegible]	.02	.03	[illegible]	.05	.06	.07	.08	.09	.10
DATE	25	25	25	25	25	25	25	25	25	25	25	25
TIME	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
DEC	.02	.03	.04	.04	[illegible]	.06	.08	.09	.11	.13	.15	.17
DATE	[illegible]	16	[illegible]	16	16	16	16	16	16	[illegible]	16	16
TIME	1313	1313	1313	1313	1313	1313	1357	1357	1413	1500	1500	1528
YEAR	.30*	[illegible]	.88	1.02*	1.24	1.32*	1.36	1.36	1.36*	1.36	1.36*	1.36
MONTH	[illegible]	08	[illegible]	08	08	08	08	08	08	08	08	08

LIHUE, HAWAII

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	.35	[illegible]	[illegible]	1.10	1.30	1.33	1.40	1.55	1.62	1.92	1.99	2.10
DATE	31	31	31	31	31	31	31	31	31	31	31	31
TIME	1316	1320	[illegible]	1329	1329	[illegible]	1329	1329	[illegible]	1327	1329	1327
FEB	[illegible]	.57	.76	[illegible]	[illegible]	1.53	1.76	1.92	2.16	2.31	[illegible]	2.75
DATE	[illegible]	01	01	01	01	[illegible]	[illegible]	[illegible]	[illegible]	01	01	01
TIME	[illegible]	[illegible]	[illegible]	0901	0905	0929	0930	0935	[illegible]	1001	1007	1007
MAR	.18	.25	.32	.36	.48	.55	.57	.61	.62	.62	.64	.66
DATE	28	28	28	28	28	28	28	28	28	28	28	28
TIME	1710	[illegible]	1710	1716	1727	1735	1735	[illegible]	[illegible]	1223	1909	1917
APR	.11	[illegible]	.12	.12	.12	.12	[illegible]	.12	.14	[illegible]	[illegible]	.14
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	08	[illegible]	[illegible]	[illegible]	21	21	[illegible]
TIME	1407	1411	1411	1411	[illegible]	[illegible]	[illegible]	1411	1429	1429	1429	1429
MAY	.12	.15	.16	.16	.16	.16	.16	.17	.18	[illegible]	.20	.21
DATE	[illegible]	13	13	13	13	13	13	[illegible]	13	[illegible]	13	13
TIME	[illegible]	[illegible]	[illegible]	1001	[illegible]	1001	1001	0629	0703	[illegible]	0533	0628
JUN	.07	.08	[illegible]	.08	.08	.08	.08	.08	.08	[illegible]	.08	.08
DATE	[illegible]	30	[illegible]	30	30	30	30	30	30	[illegible]	30	30
TIME	2319	[illegible]	[illegible]	[illegible]	2322	2322	2322	2322	[illegible]	2322	2322	2322
JUL	[illegible]	.11	[illegible]	[illegible]	.13	.14	.17	.22	.25	.26	[illegible]	.26
DATE	01	01	01	01	01	[illegible]	01	[illegible]	01	01	[illegible]	01
TIME	0742	[illegible]	[illegible]	0751	[illegible]	[illegible]	0751	0751	[illegible]	[illegible]	0818	0818
AUG	[illegible]	[illegible]	[illegible]	.11	.11	[illegible]	.11	[illegible]	.12	.12	.12	.12
DATE	[illegible]	12	[illegible]	[illegible]	12	[illegible]	[illegible]	01	01	01	11+	[illegible]
TIME	[illegible]	1843	[illegible]	1843	1843	[illegible]	1843	2336	2336	[illegible]	1126	[illegible]
SEP	.11	[illegible]	.12	.12	.12	.14	.18	.18	.18	.18	.20	.20
DATE	[illegible]	10	[illegible]	10	10	[illegible]	10	10	10	10	[illegible]	10
TIME	0300	[illegible]	[illegible]	0307	0307	0306	0307	0307	0307	[illegible]	0307	0307
OCT	.12	.14	[illegible]	.14	[illegible]	[illegible]	[illegible]	.14	.14	.14	.14	.14
DATE	[illegible]	[illegible]	[illegible]	[illegible]	19	19	[illegible]	[illegible]	19	19	19	19
TIME	0847	0900	0900	0900	[illegible]	[illegible]	0900	0900	0900	[illegible]	0900	0900
NOV	[illegible]	[illegible]	[illegible]	[illegible]	.85	[illegible]	.95	.96	[illegible]	.98	.98	.98
DATE	27	[illegible]	27	27	27	27	27	[illegible]	27	27	27	27
TIME	0305	[illegible]	0314	0319	0326	0326	0326	0354	0330	[illegible]	0354	0354
DEC	[illegible]	.41	.45	[illegible]	[illegible]	.52	.56	.58	[illegible]	.63	.73	.76
DATE	13	13	[illegible]	[illegible]	[illegible]	13	13	13	[illegible]	[illegible]	13	13
TIME	[illegible]	[illegible]	[illegible]	1316	1316	[illegible]	1431	1449	1448	[illegible]	1448	1450
YEAR	.35	[illegible]	[illegible]	[illegible]	1.30	1.53	1.76	1.92	[illegible]	[illegible]	[illegible]	2.75
MONTH	01	01	01	01	[illegible]	02	02	[illegible]	[illegible]	02	02	02

MAXIMUM SHORT DURATION PRECIPITATION

[illegible] MAUI

JAN	.15	[illegible]	[illegible]	[illegible]	.57	[illegible]	.62	[illegible]	.73	.84	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	12	12	[illegible]	11	11	11	11	11	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0739	0714	0746	[illegible]	0822	[illegible]	[illegible]
FEB	[illegible]	[illegible]	[illegible]	[illegible]	.41	.61	.64	[illegible]	[illegible]	1.06	1.17	1.30
DATE	01	01	01	[illegible]	[illegible]	[illegible]	01	[illegible]	[illegible]	01	[illegible]	01
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0534	0539	0534	[illegible]	0534	0552	[illegible]
MAR	[illegible]	[illegible]	[illegible]	.31	.31	[illegible]	.44	.50	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	28	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	29	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	0053	0053	0451	0506	0524	[illegible]	0543	[illegible]	0659
APR	.11	[illegible]	[illegible]	.22	.25	.34	[illegible]	[illegible]	.39	.40	[illegible]	[illegible]
DATE	[illegible]	[illegible]	04	[illegible]	[illegible]	04	04	[illegible]	04	04	04	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	0256	0256	[illegible]	0311	0311	[illegible]	0330	[illegible]
MAY	[illegible]	[illegible]	[illegible]	.08	[illegible]	[illegible]	.08	[illegible]	.08	[illegible]	[illegible]	[illegible]
DATE	[illegible]	05	[illegible]	[illegible]	05	05	05	05	[illegible]	05	[illegible]	[illegible]
TIME	[illegible]	2317	[illegible]	[illegible]	2317	[illegible]	2317	2317	[illegible]	[illegible]	2317	2317
JUN	[illegible]	.01	.01	.01	[illegible]	.01	[illegible]	.01	[illegible]	.01	.01	.01
DATE	[illegible]	[illegible]	27	27	[illegible]	27	27	[illegible]	[illegible]	[illegible]	27	[illegible]
TIME	[illegible]	[illegible]	[illegible]	0516	[illegible]	0516	0516	[illegible]	0516	0516	0516	0516
JUL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.11	.14	.14	[illegible]	[illegible]	.14
DATE	[illegible]	[illegible]	[illegible]	11	[illegible]	11	11	[illegible]	11	[illegible]	[illegible]	11
TIME	[illegible]	0807	[illegible]	[illegible]	[illegible]	0811	0807	[illegible]	[illegible]	0811	[illegible]	[illegible]
AUG	[illegible]	.02	.02	.02	.02	.02	.02	[illegible]	[illegible]	.04	.02	.02
DATE	21	[illegible]	21	[illegible]	21	[illegible]	21	[illegible]	21	21	21	21
TIME	[illegible]	0909	[illegible]	[illegible]	0909	[illegible]	[illegible]	0909	[illegible]	[illegible]	[illegible]	[illegible]
SEP	[illegible]	.05	[illegible]	[illegible]	[illegible]	[illegible]	.05	[illegible]	[illegible]	.05	.05	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	09	[illegible]	09	09	[illegible]	[illegible]	[illegible]	09
TIME	[illegible]	0501	[illegible]	[illegible]	0501	0501	[illegible]	[illegible]	[illegible]	0501	[illegible]	[illegible]
OCT	.03	[illegible]	[illegible]	[illegible]	[illegible]	.06	.10	[illegible]	.10	.10	.10	.10
DATE	[illegible]	[illegible]	[illegible]	[illegible]	07	07	07	[illegible]	07	[illegible]	07	[illegible]
TIME	[illegible]	0651	[illegible]	[illegible]	[illegible]	[illegible]	0729	0729	[illegible]	[illegible]	0729	0729
NOV	.36	[illegible]	[illegible]	[illegible]	1.15	1.65	1.72	1.90	2.06	[illegible]	2.48	[illegible]
DATE	[illegible]	[illegible]	25	25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	1304	[illegible]	[illegible]	[illegible]	1306	1307	1307	1402	1407	[illegible]	1519
DEC	[illegible]	.05	.06	.07	[illegible]	[illegible]	.13	.13	[illegible]	.18	.20	.21
DATE	[illegible]	12	[illegible]	12	[illegible]	[illegible]	[illegible]	12	12	[illegible]	12	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2152	[illegible]	2201	1256	1304	1321	[illegible]
YEAR	.36	.52	.61	.80	1.15	1.65	[illegible]	1.90	2.06	[illegible]	2.48	2.65
MONTH	11	[illegible]	[illegible]	[illegible]	[illegible]	11	11	11	11	[illegible]	[illegible]	[illegible]

SAN JUAN, PUERTO RICO

JAN	[illegible]	.14	[illegible]	[illegible]	.24	[illegible]	.33	.38	.38	.38	[illegible]	.47
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	01	[illegible]	01	01	[illegible]	[illegible]	01
TIME	[illegible]	[illegible]	[illegible]	0442	0452	[illegible]	[illegible]	0513	0513	[illegible]	[illegible]	[illegible]
FEB	[illegible]	.14	[illegible]	[illegible]	.14	[illegible]	.14	.14	.14	[illegible]	.14	.14
DATE	[illegible]	[illegible]	[illegible]	[illegible]	17	[illegible]	17	17	17	17	17	17
TIME	[illegible]	[illegible]	1623	1623	1623	[illegible]	[illegible]	[illegible]	1623	[illegible]	1623	[illegible]
MAR	[illegible]	[illegible]	[illegible]	.20	[illegible]	.21	.21	.21	[illegible]	.24	.31	[illegible]
DATE	[illegible]	8	[illegible]	[illegible]	28	[illegible]	28	8	29	[illegible]	29	[illegible]
TIME	0916	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0940	0945	[illegible]	0819	0819	[illegible]
APR	[illegible]	.14	[illegible]	.21	.22	[illegible]	.22	.22	[illegible]	[illegible]	[illegible]	.34
DATE	[illegible]	[illegible]	10	[illegible]	10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24
TIME	[illegible]	[illegible]	[illegible]	2350	[illegible]	[illegible]	[illegible]	2350	2350	2350	[illegible]	[illegible]
MAY	[illegible]	[illegible]	[illegible]	[illegible]	.19	[illegible]	.21	.21	.24	[illegible]	.24	[illegible]
DATE	[illegible]	3	[illegible]	23	[illegible]	19	19	19	19	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1629	[illegible]	0135	0135	0144	[illegible]	[illegible]	0144
JUN	.33	[illegible]	.69	.87	1.04	1.15	1.19	1.19	1.19	1.19	1.19	1.19
DATE	04	[illegible]	[illegible]	[illegible]	04	04	[illegible]	[illegible]	[illegible]	[illegible]	04	04
TIME	[illegible]	[illegible]	1240	[illegible]	1245	1300	1310	[illegible]	1310	[illegible]	1310	1310
JUL	[illegible]	.62	.78	.83	[illegible]	.84	.84	.84	[illegible]	.85	.85	.86
DATE	[illegible]	[illegible]	[illegible]	19	[illegible]	[illegible]	[illegible]	19	[illegible]	[illegible]	19	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1356	1405	1420	1440	1455	[illegible]	1455	1624
AUG	[illegible]	[illegible]	[illegible]	.38	[illegible]	[illegible]	.70	.71	.71	.71	[illegible]	.71
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	08	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	1640	1656	[illegible]	[illegible]	1704	1720	[illegible]	1720	[illegible]	1720
SEP	[illegible]	[illegible]	[illegible]	.81	[illegible]	[illegible]	.91	1.04	1.23	[illegible]	1.54	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15	01	[illegible]	[illegible]	01	01	01
TIME	[illegible]	0504	[illegible]	[illegible]	0520	[illegible]	1730	[illegible]	[illegible]	[illegible]	1827	1827
OCT	.15	[illegible]	.32	.45	[illegible]	.51	.51	[illegible]	.53	[illegible]	.63	.63
DATE	[illegible]	07	[illegible]	[illegible]	07	[illegible]	07	[illegible]	[illegible]	[illegible]	16	[illegible]
TIME	0516	[illegible]	[illegible]	[illegible]	[illegible]	0536	0551	0605	0121	0121	[illegible]	[illegible]
NOV	[illegible]	[illegible]	.95	[illegible]	1.44	1.59	1.60	1.60	1.60	1.60	[illegible]	1.60
DATE	[illegible]	11	[illegible]	11	[illegible]	11	11	11	11	11	[illegible]	11
TIME	[illegible]	1519	[illegible]	1529	[illegible]	1541	1556	1615	[illegible]	1615	1615	1615
DEC	.21	[illegible]	.39	.57	.73	.84	1.09	1.31	1.50	1.66	1.89	2.04
DATE	[illegible]	[illegible]	[illegible]	09	09	[illegible]	[illegible]	09	09	[illegible]	[illegible]	09
TIME	0923	[illegible]	0930	0924	[illegible]	[illegible]	[illegible]	0946	[illegible]	[illegible]	[illegible]	[illegible]
YEAR	[illegible]	.74	.95	1.12	1.44	1.59	1.60	1.60	[illegible]	1.66	[illegible]	[illegible]
MONTH	[illegible]	[illegible]	[illegible]	11	[illegible]	11	[illegible]	[illegible]	11	[illegible]	[illegible]	[illegible]

[illegible]

JAN	[illegible]	[illegible]	.30	[illegible]	[illegible]	.52	.55	.62	.65	[illegible]	[illegible]	.78
DATE	[illegible]	19	[illegible]	13	[illegible]	[illegible]	13	[illegible]	[illegible]	13	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	0140	0146	[illegible]	0215	[illegible]	0245	0245	0541	0600
FEB	.10	[illegible]	.13	.13	.13	[illegible]	.13	.13	.13	.13	.13	.13
DATE	[illegible]	14	[illegible]	[illegible]	14	14	14	[illegible]	14	14	14	14
TIME	[illegible]	[illegible]	[illegible]	[illegible]	0011	[illegible]	[illegible]	[illegible]	0011	0011	[illegible]	[illegible]
MAR	[illegible]	[illegible]	[illegible]	[illegible]	.24	[illegible]	[illegible]	.27	.27	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	05	05	[illegible]	09	09	09	[illegible]	09	[illegible]
TIME	[illegible]	[illegible]	1735	[illegible]	1738	[illegible]	1843	1843	1843	1844	1844	[illegible]
APR	[illegible]	[illegible]	[illegible]	[illegible]	.52	[illegible]	.62	[illegible]	[illegible]	.63	[illegible]	.70
DATE	[illegible]	[illegible]	24	[illegible]	[illegible]	24	[illegible]	24	24	[illegible]	24	24
TIME	1704	1708	[illegible]	[illegible]	1708	1724	1741	1741	1741	[illegible]	[illegible]	[illegible]
MAY	.16	[illegible]	.30	[illegible]	.31	[illegible]	[illegible]	.31	.32	.32	.32	.32
DATE	05	[illegible]	[illegible]	[illegible]	05	05	[illegible]	[illegible]	[illegible]	05	[illegible]	05
TIME	[illegible]	[illegible]	1622	1624	1624	1624	[illegible]	1624	1732	1732	1732	[illegible]
JUN	.19	.24	[illegible]	.28	.29	.29	[illegible]	.29	[illegible]	.29	[illegible]	.34
DATE	[illegible]	[illegible]	13	13	[illegible]	[illegible]	13	[illegible]	[illegible]	13	13	[illegible]
TIME	1738	[illegible]	[illegible]	[illegible]	0942	[illegible]	0942	0942	0942	0942	[illegible]	[illegible]
JUL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.00	1.12	1.21	1.48	1.64	[illegible]	1.87
DATE	[illegible]	11	[illegible]	11	26	26	26	26	26	26	26	26
TIME	[illegible]	1807	[illegible]	[illegible]	[illegible]	[illegible]	0932	0948	1032	[illegible]	1100	[illegible]
AUG	[illegible]	[illegible]	[illegible]	[illegible]	1.08	[illegible]	[illegible]	1.42	1.45	[illegible]	1.57	1.70
DATE	18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18	[illegible]	[illegible]	[illegible]	11	[illegible]
TIME	[illegible]	[illegible]	[illegible]	1407	1415	[illegible]	0551	[illegible]	0627	[illegible]	1616	1645
SEP	[illegible]	[illegible]	.42	.50	.57	[illegible]	[illegible]	[illegible]	.72	.73	[illegible]	.74
DATE	[illegible]	17	3	30	30	30	[illegible]	[illegible]	[illegible]	[illegible]	3	30
TIME	[illegible]	[illegible]	[illegible]	0534	0540	0549	[illegible]	[illegible]	0642	[illegible]	[illegible]	0716
OCT	[illegible]	[illegible]	[illegible]	.94	[illegible]	1.22	[illegible]	1.33	1.40	1.60	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	28	28	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	1741	[illegible]	[illegible]	1807	[illegible]	[illegible]	1650	[illegible]	[illegible]	[illegible]
NOV	[illegible]	[illegible]	[illegible]	[illegible]	.90	[illegible]	[illegible]	[illegible]	1.07	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	0903	[illegible]	[illegible]	0922	1522	[illegible]	[illegible]	[illegible]	[illegible]
DEC	.35	.58	[illegible]	.76	.96	1.10	1.20	1.30	1.33	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	03*	03*	03*	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	1316	[illegible]	1346	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
YEAR	[illegible]	[illegible]	[illegible]	.94	1.16	[illegible]	1.33	1.42	1.48	1.64	[illegible]	[illegible]
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	08	[illegible]	07	07	[illegible]	[illegible]

MAXIMUM SHORT DURATION PRECIPITATION

Maximum precipitation in inches (180 minutes)

[illegible] IS, PACIFIC

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1849	[illegible]	[illegible]
FEB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.20
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	333	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0443	443
MAR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.98	[illegible]	[illegible]	[illegible]	[illegible]	1.52
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	25	[illegible]	[illegible]	25	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	846	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
APR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.92
DATE	[illegible]	[illegible]	23	[illegible]	23	[illegible]	[illegible]	[illegible]	23	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	448	[illegible]	458	[illegible]	459	[illegible]	0516	[illegible]	[illegible]	[illegible]
MAY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.33
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12	24	24	24	24
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	456	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
JUN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.33	[illegible]	1.44
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	851	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
JUL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.97	[illegible]	[illegible]	[illegible]	1.78
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2239	[illegible]	1439	[illegible]	[illegible]
AUG	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.32	[illegible]	1.53	[illegible]	1.64
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1532	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SEP	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.44
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1544	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
OCT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
NOV	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.08	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24	[illegible]	24	[illegible]	[illegible]	24
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DEC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.70	.77	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	31	31	[illegible]	31	[illegible]	3	3	3	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0513	[illegible]	[illegible]	[illegible]
YEAR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	07

[illegible] PACIFIC

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.96	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	844	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
FEB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MAR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.89
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
APR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.83	[illegible]	[illegible]
DATE	[illegible]	[illegible]	29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	29	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MAY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.44	1.50	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1828	[illegible]	[illegible]	[illegible]	[illegible]	2045
JUN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.51	[illegible]	[illegible]	[illegible]	[illegible]	1.52
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	548	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
JUL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.98	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
AUG	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SEP	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
OCT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1824
NOV	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DEC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.83	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
YEAR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Maximum precipitation in inches (180 minutes)

PONAPE ISLAND, PACIFIC

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	.39	.43	[illegible]	[illegible]	[illegible]	.98	[illegible]	[illegible]	[illegible]	1.58	1.62
DATE	[illegible]	[illegible]	01	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	01
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	145	[illegible]	[illegible]	[illegible]	0310	0346
FEB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.58	.61	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0537
MAR	[illegible]	[illegible]	.42	.65	[illegible]	[illegible]	[illegible]	1.07	[illegible]	1.15	[illegible]	[illegible]
DATE	[illegible]	3	13	13	[illegible]	3	[illegible]	13	[illegible]	[illegible]	13	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
APR	.43	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	24	[illegible]	[illegible]	[illegible]	25	25	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0336	0348
MAY	[illegible]	[illegible]	.58	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.76
DATE	[illegible]	7	7	6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	1733	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
JUN	[illegible]	[illegible]	.79	[illegible]	[illegible]	[illegible]	.86	[illegible]	[illegible]	.96	.96	[illegible]
DATE	[illegible]	26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
JUL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	3	[illegible]	13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
AUG	[illegible]	[illegible]	.52	[illegible]	[illegible]	[illegible]	.67	[illegible]	[illegible]	.72	.73	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	559	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SEP	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	855	[illegible]
OCT	[illegible]	[illegible]	.72	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
NOV	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DEC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
YEAR	.43	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	07	[illegible]	[illegible]

Maximum precipitation in inches (180 minutes)

TRUK, CAROLINE IS., PACIFIC

	5	10	15	20	30	45	60	80	100	120	150	180
JAN	[illegible]	.39	[illegible]	.42	[illegible]	.42	.42	.42	.43	[illegible]	[illegible]	.65
DATE	[illegible]	[illegible]	[illegible]	[illegible]	02	[illegible]	[illegible]	02	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1109	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
FEB	[illegible]	[illegible]	[illegible]	.51	.73	[illegible]	[illegible]	[illegible]	1.15	[illegible]	[illegible]	1.15
DATE	25	25	19	[illegible]	19	[illegible]	[illegible]	[illegible]	19	19	[illegible]	[illegible]
TIME	1123	[illegible]	1141	1132	[illegible]	[illegible]	[illegible]	1151	1151	[illegible]	[illegible]	[illegible]
MAR	[illegible]	[illegible]	.58	[illegible]	.76	.84	.91	[illegible]	1.32	1.38	1.75	[illegible]
DATE	[illegible]	23	23	[illegible]	[illegible]	23	[illegible]	[illegible]	[illegible]	23	23	[illegible]
TIME	[illegible]	[illegible]	0928	[illegible]	944	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1143	[illegible]
APR	[illegible]	[illegible]	.49	[illegible]	.73	.84	[illegible]	.97	[illegible]	[illegible]	[illegible]	1.05
DATE	[illegible]	[illegible]	[illegible]	[illegible]	19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	424	[illegible]	0358	[illegible]	[illegible]	[illegible]	[illegible]
MAY	[illegible]	.88	[illegible]	[illegible]	[illegible]	[illegible]	2.17	2.23	2.25	[illegible]	[illegible]	[illegible]
DATE	[illegible]	17	[illegible]	17	[illegible]	17	17	17	[illegible]	[illegible]	17	17
TIME	[illegible]	[illegible]	0032	[illegible]	[illegible]	[illegible]	[illegible]	0112	[illegible]	[illegible]	[illegible]	[illegible]
JUN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.29	1.32	1.35	1.35	[illegible]	[illegible]
DATE	[illegible]	[illegible]	23	23	23	[illegible]	23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	618	[illegible]	[illegible]	[illegible]	0720
JUL	[illegible]	[illegible]	.82	[illegible]	[illegible]	[illegible]	[illegible]	.91	.91	.91	[illegible]	[illegible]
DATE	[illegible]	16	[illegible]	16	[illegible]	16	[illegible]	16	16	16	[illegible]	[illegible]
TIME	[illegible]	0924	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0824	[illegible]	[illegible]	0824
AUG	[illegible]	[illegible]	[illegible]	[illegible]	.79	.89	.97	[illegible]	[illegible]	1.28	[illegible]	1.56
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19	[illegible]	[illegible]	[illegible]	19	19
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1003	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SEP	[illegible]	.71	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.07	[illegible]	[illegible]	1.18	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1808	[illegible]	[illegible]	1818	1836	[illegible]
OCT	.45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.46	[illegible]	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	27	[illegible]	27	[illegible]	27	[illegible]
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1853	[illegible]	[illegible]	[illegible]
NOV	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.37	[illegible]	[illegible]	[illegible]
DATE	[illegible]	[illegible]	24	[illegible]	[illegible]	[illegible]	24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIME	0834	0837	0841	[illegible]	[illegible]	[illegible]	0852	[illegible]	0534	0534	[illegible]	[illegible]
DEC	[illegible]	[illegible]	.65	[illegible]	.57	[illegible]	.62	.62	.78	1.00	[illegible]	[illegible]
DATE	[illegible]	[illegible]	24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17	[illegible]	17	17
TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1045	[illegible]	[illegible]	[illegible]
YEAR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.23	2.25	[illegible]	[illegible]	2.79
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Indicates [illegible] than [illegible]

[illegible]

SUNSHINE, AMOUNT AND PERCENT

Station	January Hours	January Percent of possible	February Hours	February Percent of possible	March Hours	March Percent of possible	April Hours	April Percent of possible	May Hours	May Percent of possible	June Hours	June Percent of possible	July Hours	July Percent of possible	August Hours	August Percent of possible	September Hours	September Percent of possible	October Hours	October Percent of possible	November Hours	November Percent of possible	December Hours	December Percent of possible	Annual Hours	Annual Percent of possible
ALABAMA																										
BIRMINGHAM	156	[illegible]	131	43	186	50	233	[illegible]	222	51	251	58	222	51	250	[illegible]	197	53	231	66	201	64	172	55	[illegible]	55
MONTGOMERY	193	60	172	56	217	58	258	66	289	67	317	74	275	63	315	76	224	60	229	65	172	54	147	48	2808	63
ALASKA																										
ANCHORAGE	68	[illegible]	158	63	206	56	207	47	294	54	334	58	320	56	260	53	164	42	166	53	[illegible]	48	63	[illegible]	2345	52
JUNEAU	45	[illegible]	125	48	155	42	160	37	201	39	195	36	127	23	167	35	81	21	88	28	46	19	[illegible]	20	1428	32
NOME	64	48	105	44	130	36	243	53	362	63	324	51	317	52	186	37	123	31	82	27	92	48	[illegible]	24	2060	45
ARIZONA																										
FLAGSTAFF	275	86	256	84	257	69	[illegible]	74	391	[illegible]	415	95	329	74	338	81	264	71	310	88	267	86	249	81	3634	82
PHOENIX	248	78	254	82	305	82	346	89	414	96	422	98	380	87	371	90	322	87	340	97	283	90	254	82	3737	89
TUCSON	266	83	282	91	317	85	350	90	412	96	426	100	366	84	318	[illegible]	335	90	348	99	308	98	261	84	4049	91
YUMA	295	[illegible]	[illegible]	94	326	88	[illegible]	90	417	97	420	98	389	89	389	94	341	92	339	96	294	94	253	81	4102	92
ARKANSAS																										
FORT SMITH	191	61	151	50	193	52	247	63	289	66	303	70	336	76	274	66	250	67	265	76	176	57	122	40	2797	63
LITTLE ROCK	206	66	194	63	236	64	307	78	352	81	370	85	373	85	351	84	299	80	280	80						67
CALIFORNIA																										
EUREKA U	150	50	115	39	203	55	207	52	311	69	326	72	238	[illegible]	179	42	121	32	144	42	97	33	84	29	2175	49
FRESNO	171	55	195	64	249	67	325	83	427	97	427	97	428	96	400	95	346	93	287	82	217	71	202	67	3674	83
LOS ANGELES U	268	83	232	76			312	[illegible]	347	85	354	82	398	91					256	73	[illegible]	79	224	73		60
RED BLUFF	214	71	183	61	235	63	324	82	433	97	428	95	439	96	[illegible]	94	356	95	276	80	215	72	201	69	3703	83
SACRAMENTO	137	45	165	55	195	52	287	72	426	96	422	95	427	95	375	89	327	88	245	71	[illegible]	89	242	82	3518	79
SAN DIEGO	280	88	210	68	254	68	257	66	238	55	211	49	277	64	291	[illegible]	249	67	256	73	247	78	249	80	3017	68
COLORADO																										
DENVER	193	64	164	55	213	57	313	79	274	62	313	70	331	73	313	74	286	76	293	85	225	75	204	70	3121	70
GRAND JUNCTION	177	58	180	60	233	63	[illegible]	73	314	71	361	81	367	81	357	84	314	84	291	84	[illegible]	69	229	78	3319	75
PUEBLO	261	85	237	79	317	85	348	88	388	88	401	90	397	88	380	90	326	87	325	94	255	84	229	77	3864	87
CONNECTICUT																										
HARTFORD	171	58	184	62	216	58	273	68	256	57	252	55	289	63	240	56	170	45	174	51	152	52	126	44	2502	56
DIST/COLUMBIA																										
WASHINGTON NATIONA	[illegible]	46	[illegible]	49	186	50	241	61	261	59	303	68	281	62	[illegible]	64	180	48	195	56	163	54	117	40	2484	56
FLORIDA																										
APPALACHICOLA U	165	51	161	52	234	63	225	58					218	51	273	67					199	62	206	65		38
JACKSONVILLE	203	63	[illegible]	57	251	68	266	69	282	66	229	54	175	41	[illegible]	67	224	60	196	55	205	64	191	60	2614	60
KEY WEST	264	79	[illegible]	77	345	92	347	91	363	88	382	93	362	86	344	86	307	83	320	89	285	87	283	86	3845	87
LAKELAND U	227	69	232	74	327	88	340	88	337	80	321	77	338	80	336	83	288	78	297	83	274	85	252	78	3569	80
TAMPA	218	66	211	67	312	84	326	85	359	85	325	78	310	78	300	74	245	66	264	74	221	68	220	68	3310	75
GEORGIA																										
ATLANTA	174	55	128	42	183	49	255	65	229	53	272	63	171	39			209	56	220	63	191	61	168	54		49
MACON	211	66	155	50	192	52	224	57	219	51	280	65	168	39	255	62	190	51	236	67	194	62	161	52	2485	56
SAVANNAH	139	43	143	46	228	61	252	65	271	63	224	52	183	42	281	68	167	45	213	60	173	55	186	57	2460	55
HAWAII																										
HILO	120	35	131	41	131	35	123	33	207	51	189	47	199	49	187	47	206	56	81	22	100	30	146	43	1819	41
HONOLULU	[illegible]	59	190	59	181	49	238	63	248	61	255	63	283	69	297	75	265	72	231	64	168	50	189	56	2745	62
KAHULUI	204	60	175	54	219	59	254	67	307	75	292	73	322	78	286	72	303	82	249	69	247	74	237	70	3094	70
LIHUE	147	[illegible]	198	62	204	55	204	54	278	68	274	68	287	70	279	70	285	78	241	67	175	53	212	[illegible]	2785	63
IDAHO																										
BOISE	85	29	124	42	238	64	214	53	313	69	316	68	363	78	317	73	350	93	148	43	140	48	83	[illegible]	2691	[illegible]
POCATELLO	129	44	120	41	209	56	214	53	282	62	341	74	379	82	335	87	344	92	192	56	166	57	127	45	2878	65
ILLINOIS																										
CAIRO U	138	45	[illegible]	33	189	51	268	68	318	72	326	74	347	78	316	66	295	52	229	66	148	48	90	[illegible]	2624	59
CHICAGO MIDWAY	93	32	[illegible]	40	217	59	229	57	303	67	320	70	390	85	269	63	225	60	264	77	123	42	55	19	2608	59
MOLINE	149	50	124	42	203	55	224	56	205	46	211	46	315	68	253	59	183	49	264	77	114	39	61	21	2306	52
PEORIA	86	29	106	35	232	62	185	46	254	57	308	68	366	80	262	61	215	58	257	74	114	38	111	38	2494	56
SPRINGFIELD	135	45	96	32	187	50	195	49	324	73	301	67	340	75	235	55	204	55	262	76	130	43	99	34	2507	56
INDIANA																										
EVANSVILLE	126	41	[illegible]	36	176	47	278	70	322	73	352	79	386	86	270	64	191	51	220	63	146	48	88	30	2663	60
FORT WAYNE	142	[illegible]	121	41	214	58	236	59	334	75	333	74	409	89	318	74	213	57	237	69	147	49	100	35	2802	63
INDIANAPOLIS	115	[illegible]	120	40	192	52	225	57	301	68	287	64	318	70	[illegible]	60	193	52	227	66	153	51	91	31	2476	56
IOWA																										
DES MOINES	114	38	99	33	201	54	[illegible]	50	269	60	238	52	400	87	290	68	224	60	294	86	[illegible]	37	116	40	2555	57
SIOUX CITY	129	44	[illegible]	47	199	54	158	39	311	69	304	66	396	86	302	70	250	67	[illegible]	84	146	50	114	40	2738	61
KANSAS																										
CONCORDIA	210	70	169	56	247	67	287	72	371	83	392	88	432	[illegible]	367	87	292	78	326	94	192	64	162	55	[illegible]	77
DODGE CITY	231	75	185	61	236	64	273	69	347	79	[illegible]	79	399	89	[illegible]	85	260	70	328	94	168	55	201	67	3337	75
TOPEKA	178	59	117	39	[illegible]	66	226	57	289	65	295	66	334	74	280	66	219	59	285	82	122	40	136	46	2727	61
WICHITA	204	66	175	58	224	60	222	56	267	61	279	63	357	80	[illegible]	79	246	66	294	84	141	46	168	56	[illegible]	65
KENTUCKY																										
LOUISVILLE	126	41	133	44	186	[illegible]	224	57	270	61	291	66	310	69	277	66	199	53	201	58	165	54	111	38	2493	56
LOUISIANA																										
NEW ORLEANS	171	53	168	54	185	[illegible]	196	51	218	[illegible]	255	[illegible]	203	47	183	45	243	66	213	[illegible]	175	55	167	52	[illegible]	54
SHREVEPORT	168	52	[illegible]	46	151	41	223	57	234	55	331	77	338	78	317	77	279	75	258	73	224	71	160	51	2828	64
MAINE																										
PORTLAND	147	51	158	54	180	49	223	55	278	61	282	61	291	62	270	62	201	54	218	64	177	61	145	52	2571	58
MARYLAND																										
BALTIMORE	146	48	150	[illegible]	190	51	232	58	217	49	271	61	288	64	[illegible]	58	161	43	170	49	170	56	131	45	2370	53
MASSACHUSETTS																										
BLUE HILL OBS R	153	53	152	[illegible]	160	45	[illegible]	51	247	56	[illegible]	53	298	64	255	59	196	[illegible]	203	59	176	60	[illegible]	48	[illegible]	56
BOSTON	158	[illegible]	156	53	189	51	[illegible]	57	[illegible]	66	288	63	[illegible]	78	[illegible]	[illegible]	218	58	206	60	169	57	153	54	[illegible]	[illegible]
MICHIGAN																										
ALPENA	96	[illegible]	97	33	175	47	277	68	[illegible]	61	287	61	339	72	[illegible]	59	[illegible]	45	187	55	123	43	99	36	[illegible]	54
DETROIT METRO	[illegible]	[illegible]	129	44	170	46	226	56	293	65	[illegible]	67	385	83	227	[illegible]	200	53	204	59	112	38	95	33	[illegible]	55
GRAND RAPIDS	73	25	94	32	164	44	200	50	251	55	257	56	[illegible]	[illegible]	213	49	176	47	219	64	96	33	49	[illegible]	2096	47
LANSING	104	[illegible]	[illegible]	[illegible]	136	37	[illegible]	58	292	64	245	53	312	67	[illegible]	46	183	49	208	61	97	33	56	20	2146	48
MARQUETTE U	107	[illegible]	130	[illegible]	177	49	256	63	298	64	280	59	386	81	300	68	198	53	186	55	121	43	85	[illegible]	2524	[illegible]
SAULT STE MARIE	87	[illegible]	[illegible]	40	242	65	296	73	281	60	271	57	323	68	293	67	151	40	155	46	92	[illegible]	81	30	2385	53

SUNSHINE, AMOUNT AND PERCENT

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible
MINNESOTA																										
DULUTH	99	35	120	42	182	49	187	46	272	58	157	33	383	80	296	67	182	48	178	53	143	51	84	31	2281	51
MINNEAPOLIS	138	48	146	50	211	57	202	50	312	68	299	64	398	84	268	62	212	56	229	67	148	51	74	27	2636	59
MISSISSIPPI																										
JACKSON	198	62	137	44	198	53	167	43	213	50	243	57	208	48	197	48	226	61	211	60	166	52	149	48	2311	52
MISSOURI																										
COLUMBIA REGIONAL	136	45	100	33	205	55	229	58	316	71	330	74	366	81	300	71	249	67	278	80	137	45	112	38	2759	62
KANSAS CITY	176	58	119	39	249	67	222	56	298	67	304	68	393	87	322	76	220	59	270	78	97	32	120	41	2788	63
ST LOUIS	147	48	101	33	209	56	269	68	303	68	304	68	384	85	281	66	227	61	279	80	146	48	113	38	2763	62
SPRINGFIELD	192	62	145	48	199	54	283	72	343	78	329	75	358	80	297	71	245	66	269	77	156	51	126	42	2942	66
MONTANA																										
BILLINGS	135	47	172	59	245	66	262	64	248	53	287	61	361	76	340	78	318	84	177	52	127	45	117	43	2787	62
GREAT FALLS	95	34	149	52	173	47	159	39	250	53	272	57	358	74	338	77	325	86	181	54	136	48	90	34	2525	57
HAVRE	92	34	125	44	188	51	187	46	337	71	357	74	394	81	340	77	308	82	139	41	124	45	83	32	2673	60
HELENA	93	33	125	43	199	54	169	41	228	49	266	56	353	74	306	70	332	88	157	46	148	52	97	36	2472	55
MISSOULA	58	21	103	36	186	50	178	44	209	45	210	44	358	75	278	63	330	88	102	30	95	34	64	24	2172	49
NEBRASKA																										
LINCOLN	158	53	127	43	194	52	196	49	322	72	318	70	399	87	345	81	242	65	291	84	139	47	135	47	2866	64
NORTH PLATTE	170	57	159	53	183	50	220	55	300	67	309	68	389	85	337	79	258	69	288	84	198	66	167	58	2977	67
OMAHA	133	45	126	42	198	53	184	46	312	69	277	61	400	87	313	73	229	61	286	83	126	43	142	49	2724	61
VALENTINE	211	72	181	61	192	52	266	66	344	76	350	76	413	89	354	82	301	80	270	79	199	68	149	53	3228	72
NEVADA																										
ELY	232	77	167	56	192	52	216	54	314	71	368	82			383	90	344	92	268	78	230	76	231	79		66
LAS VEGAS	268	86	248	81	262	70	331	84	381	87	407	93	405	91	392	94	342	92	319	91	269	87	279	92	3902	88
RENO	213	71	170	56	272	73	304	77	436	98	437	98	448	99	417	98	365	98	328	95	217	72	197	67	3803	85
WINNEMUCCA	166	55	128	43	148	40	162	41	341	76	384	85	384	84	339	79	329	88	209	61	140	47	161	56	2891	65
NEW HAMPSHIRE																										
CONCORD	148	51	150	51	191	52	251	62	320	70	276	60	320	69	260	60	180	48	194	57	152	52	115	41	2558	57
MT WASHINGTON OBS	84	29	78	26	118	31	143	35	191	41	161	34	106	22	139	32	106	28	126	36	89	30	84	30	1425	31
NEW JERSEY																										
ATLANTIC CITY	122	40	125	42	153	41	228	57	232	52	283	63	300	66	282	67	197	53	169	49	133	44	110	38	2334	52
TRENTON U	142	47	148	49	190	51	253	63	214	48	215	48	249	55	222	52	159	42	160	46	175	59	113	39	2239	50
NEW MEXICO																										
ALBUQUERQUE	227	73	209	68	260	70	291	74	363	84	368	85	327	74	337	81	246	66	330	94	273	88	225	74	3455	78
ROSWELL	212	67	200	65	296	80	306	78	357	83	338	79	268	61	304	73	244	66	311	89	272	87	212	69	3321	75
NEW YORK																										
ALBANY	108	37	130	44	168	45	201	50	298	66	255	56	295	64	240	56	157	42	139	41	83	28	120	42	2193	49
BINGHAMTON	85	29	90	30	152	41	181	45	265	59	241	53	315	68	257	60	164	44	176	51	116	39	87	31	2128	48
BUFFALO	84	29	79	27	144	39	221	55	294	65	293	64	334	72	224	52	178	47	161	47	105	36	67	24	2182	49
NEW YORK U	110	37	138	46	169	46	244	61	249	55	192	43	241	53	265	67	246	66	230	67	199	67	149	51	2451	55
ROCHESTER	94	32	62	21	155	42	228	57	289	64	311	68	360	77	226	52	168	45	153	45	105	36	58	21	2208	50
SYRACUSE	90	31	115	39	165	45	198	49	264	58	229	50	347	75	241	56	138	37	159	46	99	34	73	26	2119	48
NORTH CAROLINA																										
ASHEVILLE	185	59	163	53	223	60	236	60	235	54	337	77	226	51	217	52	206	55	212	61	185	60	171	56	2595	58
CAPE HATTERAS R	117	37	116	38	184	49	224	57	216	50	249	57	241	55	253	61	191	51	174	50	161	52	123	40	2248	51
CHARLOTTE	168	54	161	52	219	59	269	68	259	59	303	70	282	64	334	80	222	60	253	72	187	60	175	57	2831	64
GREENSBORO	152	49	141	46	208	56	275	70	226	52	310	71	216	49	301	72	174	47	234	67	203	66	174	58	2615	59
RALEIGH	153	49	144	47	224	60	274	70	253	58	319	73	238	54	303	73	190	51	231	66	193	62	164	54	2686	60
WILMINGTON	161	51	183	60	236	63	236	60	247	57	263	61	229	52	283	68	199	54	199	57	203	65	183	60	2621	59
NORTH DAKOTA																										
BISMARCK	145	52	168	58	237	64	140	34	303	65	299	63	366	76	282	64	268	71	148	44	136	48	105	39	2597	58
FARGO	107	38	118	41	177	48	115	28	317	68	258	54	372	78	311	71	216	57	186	55	141	50	105	40	2422	54
WILLISTON	138	50	210	74	199	54	80	20							331	75	262	69	130	39	107	39	113	43		35
OHIO																										
CINCINNATI ABBE OB	99	33	116	38	132	36	146	37	203	46	291	65	349	77	241	57	169	45	196	57	172	57	99	34	2213	50
CLEVELAND	89	30	89	30	135	36	226	56	302	67	309	68	372	81	246	58	219	58	194	56	115	39	45	16	2341	53
COLUMBUS	80	26	105	35	105	28	213	53	252	56	234	52	252	55	153	36	140	37	186	54	124	41	99	34	1944	44
DAYTON U	105	35	127	42	141	38	203	51	306	69	307	69	282	62	221	52	157	42	216	63	149	50	98	34	2312	52
TOLEDO	107	36	122	41	162	44	181	45	256	57	245	54	319	69	179	42	160	43	204	59	112	38	63	22	2110	47
OKLAHOMA																										
OKLAHOMA CITY	252	81	170	56	188	51	235	60	239	55	257	59	239	54	307	74	224	60	302	86	203	66	195	64	2810	63
TULSA	169	54	128	42	162	44	221	56	249	57	265	60	308	69	292	70	192	52	252	72	133	43	148	49	2519	57
OREGON																										
PORTLAND	61	22	91	31	224	61	220	54	308	67	271	58	319	67	244	56	303	81	76	22	58	20	61	22	2235	50
PACIFIC AREA																										
GUAM TAGUAC R	225	63	250	76	330	88	318	85	344	87	329	85	255	64	175	45	257	70	187	51	158	46	209	60	3035	69
JOHNSTON	257	74	230	71	272	73	299	80	331	83	290	74	348	86	325	83	319	87	290	79	236	69	236	68	3433	77
KOROR R	229	63	239	72	274	73	266	72	227	59	157	42	210	54	200	52	187	51	170	46	139	39	125	34	2422	55
MAJURO	226	62	234	70	219	59	167	45	173	45	106	28	161	42	148	39	141	39	106	28	110	31	120	33	1909	43
PAGO PAGO	187	47	211	60	197	52	155	44	123	35	154	45	215	61	248	69	270	75	246	64	161	42	124	31	2290	52
PONAPE R	231	63	235	70	201	54	220	60	172	45	92	25	200	52	156	41	174	48	103	28	120	34	105	29	2009	45
TRUK MOEN ISLAND	228	63	198	60	170	45	109	30	152	39	115	31	170	44	191	50	166	46	161	43	95	27	107	30	1860	42
WAKE	219	64	251	78	282	76	294	78	274	68	303	76	284	70	267	67	154	42	225	62	153	45	212	62	2918	66
YAP R	291	81	253	76	291	78	262	71	292	75	244	64	266	68	215	56	237	65	245	66	199	57	225	63	3019	68
PENNSYLVANIA																										
HARRISBURG	131	43	143	48	194	52	234	59	238	53	223	50	325	71	268	63	199	53	177	51	171	57	79	27	2381	53
PHILADELPHIA	138	46	155	52	201	54	248	62	236	53	269	60	306	67	282	66	193	52	180	52	180	60	128	44	2516	56
PITTSBURGH	87	29	69	23	87	23	163	41	197	44	215	48	282	62	167	39	156	42	155	45	116	39	86	30	1778	40
PITTSBURGH U	129	43	80	27	82	22	164	41	197	44	221	49	280	61	163	38	152	41	158	46	115	38	85	29	1826	41
SCPANTON	89	30	110	37	149	40	199	50	249	55	206	45	278	61	221	52	156	42	170	49	155	52	101	35	2084	47
RHODE ISLAND																										
PROVIDENCE	147	50	163	55	176	47	205	51	248	55	227	50	274	59	215	50	187	50	211	61	167	57	111	39	2331	52
SOUTH CAROLINA																										
CHARLESTON	178	56	139	45	249	67	296	75	338	79	286	67	314	72	334	81	184	49	238	68	243	77	205	66	3004	68
COLUMBIA	125	40	123	40	193	52	243	62	305	71	345	80	234	53	347	84	218	59	259	74	190	61	198	64	2779	63
GRNVLLE-SPRTNBRG	167	53	141	46	213	57	270	69	265	61	312	72	248	56	292	70	174	47	248	71	225	72	190	62	2744	62

SUNSHINE, AMOUNT AND PERCENT

YEAR 1975

Station	January Hours	January Percent of possible	February Hours	February Percent of possible	March Hours	March Percent of possible	April Hours	April Percent of possible	May Hours	May Percent of possible	June Hours	June Percent of possible	July Hours	July Percent of possible	August Hours	August Percent of possible	September Hours	September Percent of possible	October Hours	October Percent of possible	November Hours	November Percent of possible	December Hours	December Percent of possible	Annual Hours	Annual Percent of possible
SOUTH DAKOTA																										
HURON	156	54	[illegible]	49	212	57	97	24	318	69	282	61	415	88	[illegible]	76	281	75	231	69	155	57	[illegible]	39	2741	62
RAPID CITY	162	56	[illegible]	67	201	54	221	55	258	57	360	78	419	89	361	83	[illegible]	91	236	69	[illegible]	71	145	52	3107	70
TENNESSEE																										
CHATTANOOGA	127	41	[illegible]	38	159	43	232	59	239	55	283	65	240	56	[illegible]	51	174	47	179	51	142	46	142	46	2251	51
KNOXVILLE	138	44	128	42	203	55	314	80	331	76	343	79	322	[illegible]	[illegible]	[illegible]	215	58	201	57	155	[illegible]	128	42	2776	62
MEMPHIS	[illegible]	58	[illegible]	39	[illegible]	49	262	67	[illegible]	65	335	77	[illegible]	[illegible]	318	[illegible]	226	61	259	74	171	55	139	46	2800	63
NASHVILLE	[illegible]	[illegible]	[illegible]	[illegible]	130	35	235	[illegible]	[illegible]	[illegible]			321	72	[illegible]	49	184	49	191	54	173	56	139	45		46
TEXAS																										
ABILENE	[illegible]	[illegible]	[illegible]	[illegible]	278	75	281	67	[illegible]	67	[illegible]	75	302	69	[illegible]	78	263	71	282	80	245	78	214	69	3166	[illegible]
AMARILLO	232	[illegible]	[illegible]	58	258	69	287	73	336	77	328	75	287	65	[illegible]	86	257	69	344	98	261	84	253	83	3381	76
AUSTIN	188	58	[illegible]	54	219	59	192	50	206	46	243	57	320	74	296	72	267	72	252	71	229	72	145	45	2743	62
BROWNSVILLE	159	48	158	51	216	58	216	56	[illegible]	63	[illegible]	77	328	78	[illegible]	83	262	71	273	76	196	60	161	49	2841	64
CORPUS CHRISTI	[illegible]	[illegible]	148	47	196	53	168	44	213	53	308	74	319	75	[illegible]	64	261	71	279	78	240	74	192	59	2704	62
EL PASO	244	[illegible]	[illegible]	81	335	90	345	89	[illegible]	[illegible]	422	94	362	83	[illegible]	85	298	80	339	96	[illegible]	92	262	84	3913	88
GALVESTON	187	[illegible]	[illegible]	55	178	48	159	41	[illegible]	[illegible]	255	61	270	63	218	52	192	52	244	69	201	63	154	48	2465	56
HOUSTON INTERCON.	154	47	148	47	137	37	113	29	194	46	206	49	254	59	223	55	247	67	219	62	224	70	167	52	2285	51
LUBBOCK	215	68	181	59	269	72	271	69	324	75	309	72	234	53	315	78	267	72	322	92	248	79	213	69	3178	71
PORT ARTHUR	167	[illegible]	147	47	167	45	142	37	[illegible]	48	[illegible]	50	239	56	213	50	233	63	203	57	226	71	179	56	2321	52
SAN ANTONIO	177	54	190	59	212	57	171	44	115	27	245	58	285	67	275	67	239	65	274	77	252	79	177	55	2611	59
UTAH																										
MILFORD	219	[illegible]	[illegible]	63	207	56	248	62	[illegible]	68	343	77	344	76	[illegible]	83	307	82	268	77	226	74	207	70	3208	72
SALT LAKE CITY	191	64	154	52	227	61	[illegible]	60	313	70	340	75	388	85	360	84	338	91	221	64	164	55	148	51	3083	69
VERMONT																										
BURLINGTON	123	43	111	41	174	47	191	47	299	65	284	61	314	67	284	65	146	39	152	44	114	39	101	37	2303	52
VIRGINIA																										
LYNCHBURG	143	46	137	45	169	45	285	72	263	60	332	75	245	55	269	69	188	51	220	63	185	61	136	45	2590	58
NORFOLK									256	58									179	51	132	59	149	50		17
RICHMOND	163	53	133	44	192	52	242	61	259	59	305	69	225	50	274	65	161	43	179	51	165	54	140	47	2436	55
WASHINGTON																										
QUILLAYUTE	21	8	42	15	114	31	124	30	158	33	118	25	105	34	91	20	235	62	39	12	30	11	66	25	1204	27
SEATTLE-TACOMA	47	17	105	36	268	73	228	56	338	72	231	49	309	64	193	44	300	80	131	39	99	35	64	24	2314	52
SPOKANE	47	17	91	34	171	46	195	49	291	62	275	58	[illegible]	79	316	69	336	89	114	34	71	33	70	27	2373	53
WALLA WALLA U	53	18	[illegible]	25	145	39	163	[illegible]	283	61	284	60	335	70	[illegible]	75	353	94	176	37	68	24	40	15	2246	50
WEST INDIES																										
SAN JUAN P.R.	238	69	[illegible]	[illegible]	276	74	254	67	259	64	258	65	263	65	228	58	169	46	118	32	168	50	110	32	2600	59
WEST VIRGINIA																										
PARKERSBURG U	118	37	[illegible]	36	118	32	196	49	278	62	230	51	267	57	248	59	157	42	181	52	160	53	96	33	2157	48
WISCONSIN																										
GREEN BAY	105	40	[illegible]	41	152	41	225	56	262	57	246	53	305	65	203	47	150	40	199	58	95	33	92	33	2154	48
MADISON	[illegible]	[illegible]	116	39	205	55	182	45	285	63	260	57	348	75	[illegible]	47	203	54	231	67	107	37	68	24	2285	51
MILWAUKEE	89	[illegible]	112	38	191	52	177	44	274	60	265	58	336	72	242	56	172	46	213	62	131	45	77	27	2279	51
WYOMING																										
CHEYENNE	194	65	[illegible]	67	251	68	318	80	309	69	299	66	326	71	311	73	283	76	253	74	194	65	137	47	3074	69
LANDER	181	[illegible]	199	67	241	65	253	63	288	63	312	68	[illegible]	70	335	78	287	76	235	69	184	63	183	65	3024	68
SHERIDAN	131	46	163	56	175	47	167	41	226	49	275	59	324	69	340	78	307	87	181	53	123	43	139	50	2551	57

Data from airport unless otherwise specified.
"U" indicates Urban, "R" indicates Rural, sites.

ANNUAL CLIMATOLOGICAL DATA

METRIC UNITS

YEAR 1975

State and Station	Temperature: Averages: Daily maximum	Temperature: Averages: Daily minimum	Temperature: Averages: Annual	Temperature: Extremes: Highest	Temperature: Extremes: Date	Temperature: Extremes: Lowest	Temperature: Extremes: Date	Heating degree days	Cooling degree days	Precipitation: Total	Precipitation: Greatest in 24 hours	Precipitation: Date (s)	Precipitation: Snow †: Total	Precipitation: Snow †: Greatest in 24 hours	Precipitation: Snow †: Date (s)	Relative humidity: 1:00am EST	Relative humidity: 7:00am EST	Relative humidity: 1:00pm EST	Relative humidity: 7:00pm EST	Wind: Average speed	Wind: Resultant speed	Wind: Resultant direction	Wind: Fastest mile (1.6 kilometers): Speed	Wind: Fastest mile: Direction	Wind: Fastest mile: Date	Average sky cover sunrise to sunset	Number of days: Sunrise to sunset: Clear, 0-0.3	Number of days: Sunrise to sunset: Partly cloudy, 0.4-0.7	Number of days: Sunrise to sunset: Cloudy, 0.8-1.0	Number of days: Precipitation 25mm or more	Number of days: Snow † 25.4mm or more	Number of days: Thunderstorms	Number of days: Heavy fog	Number of days: Max temp: 32.2 C and above	Number of days: Max temp: 0 C and below	Number of days: Min temp: 0 C and below	Number of days: Min temp: -17.8 C and below
ALABAMA	C	C	C	C		C		Base 18.3 C	Base 18.3 C	mm	mm		mm	mm		%	%	%	%	m s	m s		m s			Tenths											
BIRMINGHAM	20.7	11.4	17.1	35.6	SEP 4	-10.0	DEC 19	1437	1032	1404	80	JAN 24-25	T	T	DEC 18+	83	87	62	67	2.8	0.1	18	21.9	W	JAN 10	6.8	66	108	191	135	0	65	12	34	1	49	0
HUNTSVILLE	21.3	10.3	15.8	34.4	SEP 4	-10.6	DEC 19+	1729	871	1853	153	OCT 7-8	94	91	JAN 12	83	86	64	69	3.5	0.3	16	16.5	27	MAR 24+	6.4	92	105	168	137	1	65	30	22	2	55	0
MOBILE	25.4	15.2	20.3	35.0	JUL 5	-5.6	DEC 19	748	1518	2199	178	NOV 6-7	0	0		84	87	61	70	3.5	0.5	11	15.6	34	APR 30	6.4	66	117	168	155	0	86	49	77	0	12	0
MONTGOMERY	24.2	13.2	18.7	35.6	SEP 4	-7.2	DEC 19	1113	1305	1854	130	SEP 22-23	0	0		84	87	62	69	3.1	0.0	2	32.2	W	JAN 10	6.2	93	104	168	137	0	68	32	53	0	31	0
ALASKA																																		8			
ANCHORAGE	4.7	-2.8	.9	25.6	JUL 9	-36.7	JAN 5	6283	1	331	45	SEP 10-11	1509	140	APR 26	72	62	68	74	3.1	0.1	22	15.6	15	DEC 16	7.3	69	57	239	121	22	2	20	7	125	190	47
ANNETTE	9.3	3.3	6.3	29.4	JUL 7	-13.9	FEB 11+	4324	4	2413	65	NOV 10-11	2202	272	FEB 13-14	77	72	81	83	4.2	1.7	15	21.0	13	JAN 2	8.2	35	61	269	232	28	1	14	15	17	120	0
BARROW	-11.8	-17.3	-14.6	17.8	JUL 7	-47.2	JAN 3	11986	0	123	13	JUL 10	554	48	APR 13-14	85	85	86		4.5			14.3	23	FEB 7		50	44	179	106	7	0	72	0	270	340	192
BARTER ISLAND	-11.1	-17.2	-14.2	20.0	JUL 11	-47.8	JAN 12	11837	0	84	9	JUL 27	907	86	JUL 27	85	83	85	85	6.3	0.3	9	28.2	27	DEC 1+		35	47	191	91	9	1	73	0	258	328	182
BETHEL	.7	-7.2	-3.3	25.6	JUL 24	-38.3	DEC 10	7828	1	340	15	SEP 17	1166	119	APR 3-4	82	72	78	84	5.3	0.7	1	21.0	18	MAR 27	7.4	65	44	236	143	16	1	57	11	151	233	90
BETTLES	-1.7	-11.4	-6.5	30.6	JUL 13	-56.7	JAN 4	9059	33	235	18	JUL 15	1598	274	APR 13-14	72	64	70					14.3	25	AUG 26	6.4	89	95	181	92	17			40	192	243	140
BIG DELTA	.8	-8.8	-4.0	31.1	JUL 10	-50.6	JAN 7+	8116	12	446	52	JUL 21	919	157	OCT 25															93	13			30	156	222	137
COLD BAY	5.2	-.2	2.5	19.4	AUG 4	-20.0	JAN 7+	5713	0	878	54	FEB 2-3	2228	239	DEC 21-22	87	81	85	88	7.4	0.7	22	24.6	12	DEC 29+	9.1	13	30	322	224	27	0	28	0	65	172	5
FAIRBANKS	1.9	-8.6	-3.4	34.4	JUL 11+	-49.4	JAN 6+	7962	97	215	25	JUL 20-21	1463	208	JAN 27	64	53	59	67	2.5	0.3	32	13.4	22	SEP 18	6.8	66	89	210	104	19	3	40	65	157	212	134
GULKANA	1.9	-9.3	-3.7	31.1	JUL 10	-48.9	JAN 5	7994	12	276	17	JUN 2	566	112	FEB 16-17		55													76	9			21	153	230	115
HOMER	5.5	-2.4	1.6	22.2	JUL 9	-27.2	JAN 5	6060	0	623	28	SEP 10-11	2129	135	JAN 1	80	71	78	84				17.9	11	MAY 25	7.1	66	89	210	152	28	0	10	1	83	184	26
JUNEAU	7.6	.4	4.1	32.2	JUL 7	-23.3	FEB 13	5159	4	1177	39	JUL 2-3	4323	511	JAN 12-13	77	70	79	83	3.8	2.5	11	18.3	12	FEB 23	8.5	35	31	299	223	40	1	20	11	58	163	14
KING SALMON	2.8	-6.4	-1.8	27.8	JUL 9	-43.3	JAN 3	7278	0	499	24	SEP 4-5	1775	206	JAN 22-23	80	68	77	83	4.4	0.7	10	20.6	32	FEB 24	7.3	63	75	227	157	22	0	32	8	118	211	85
KODIAK	5.6	-.7	2.4	24.4	JUL 9	-22.2	JAN 14	5738	0	2028	75	AUG 11	3635	302	DEC 18	79	73	81	82	5.2	1.4	35	19.7	27	JAN 26	7.4	64	71	230	200	37	0	21	4	66	176	8
KOTZEBUE	-4.2	-11.3	-7.7	23.3	JUL 6	-41.1	JAN 3+	9469	0	204	23	JUL 9-10	1295	71	DEC 28-29	78	75	77	78	6.2	0.8	6	21.5	11	DEC 31	6.6	93	78	194	109	21	0	23	1	217	276	128
MC GRATH	-.2	-11.2	-5.7	31.7	JUL 11	-51.1	JAN 4+	8717	10	483	65	JUL 15-16	2200	201	DEC 16-17	76	62	70	80	2.3	0.3	31	11.2	19	SEP 18	7.0	68	80	217	135	28	6	20	28	164	234	137
NOME	-1.1	-9.4	-5.2	24.4	JUL 14	-42.2	MAR 22	8548	1	336	42	JUL 9-10	1857	229	FEB 3-4	81	76	78	83	4.2	1.0	6	17.9	09	DEC 30	6.5	103	64	198	113	26	0	31	5	196	257	101
ST. PAUL ISLAND	1.9	-2.4	-.2	13.3	AUG 23	-25.6	MAR 24	6771	0	372	16	OCT 8-9	1529	109	JAN 16	90	87		91				25.0	34	MAR 26					191	16	0	91	0	110	221	20
SUMMIT	-.8	-8.6	-4.7	26.1	JUL 9	-38.9	JAN 4	8332	0	496	20	SEP 17-18	2794	310	DEC 17								17.4	09	JAN 12	7.4	74	47	244	145	32	1	12	7	178	247	91
TALKEETNA	4.6	-6.6	-1.0	29.4	JUL 10	-42.8	JAN 3	7015	6	671	38	SEP 5	3459	371	JAN 25-26	73							11.6	02	APR 2					142	35	2	1	21	136	219	91
UNALAKLEET											26	JUL 9-10		81	OCT 14								23.7	06	NOV 18												
VALDEZ	5.4	-.8	2.3	26.7	JUL 8	-21.7	JAN 4	5780	0	1376			8379										17.0	01	JAN 30					176	54			6	97	184	13
YAKUTAT	6.3	-.6	2.8	24.4	AUG 4	-27.2	JAN 10	5595	0	3542	123	OCT 11-12	175	544	DEC 6-7	84	76	84	87	3.3			17.9	10	FEB 17	8.1	48	43	274	240	75	1	18	3	64	166	15
ARIZONA																																					
FLAGSTAFF	15.6	-2.1	6.8	32.2	AUG 6+	-21.7	MAR 28+	4209	49	511	57	NOV 27-28	3678	460	NOV 27-28	36	36	57	64	3.5	1.2	22	20.6	SW	MAY 20	4.0	185	104	76	93	39	40	20	2	26	222	13
PHOENIX	29.4	13.9	21.7	46.7	AUG 4	-2.8	JAN 5	820	2103	115	20	SEP 7	0	0		29	20	37	50	3.5	0.5	17	24.6	S	NOV 28+	2.7	248	68	49	24	0	18	2	163	0	7	0
TUCSON	26.8	11.3	19.1	41.1	AUG 4	-3.9	FEB 23+	1110	1440	169	39	JUL 11-12	13	13	MAR 11	29	23	39	48	3.7	1.2	19	21.5	NE	JUL 24	2.9	235	81	49	42	0	33	1	128	0	21	0
WINSLOW	20.2	2.8	11.5	38.3	JUL 1	-19.4	JAN 3	3006	581	195	22	SEP 18	546	97	DEC 20-21	39	32	53	64	4.4	1.8	21	25.9	22	MAR 22	3.9	183	113	69	52	9	39	0	65	13	166	7
YUMA	29.7	14.6	22.2	45.6	AUG 4	-.6	JAN 2	628	2092	30	7	APR 9	0	0		30	21	39	50	3.8	0.6	25	21.0	NE	JUL 25	2.0	278	56	31	13	0	6	2	149	0	1	0
ARKANSAS																																					
FORT SMITH	21.5	9.1	15.3	36.1	AUG 13+	-11.7	DEC 18	1989	953	1130	58	MAY 6	445	180	DEC 24-25	80	84	58	57	3.1	0.4	6	20.1	W	NOV 29	5.6	128	95	142	112	3	64	17	46	3	79	0
LITTLE ROCK	22.3	10.3	16.3	36.7	SEP 2+	-10.0	DEC 18+	1761	1078	1145	60	MAR 27-2[illegible]	137	61	MAR 13	81	85	61	64	3.4	0.3	19	20.6	W	MAY 20	5.7	122	90	153	119	3	82	26	64	2	66	0

See reference notes at end of table

ANNUAL CLIMATOLOGICAL DATA
METRIC UNITS

YEAR 1975

State and Station	Temperature: Averages: Daily maximum	Temperature: Averages: Daily minimum	Temperature: Averages: Annual	Temperature: Extremes: Highest	Date	Lowest	Date	Heating degree days	Cooling degree days	Precipitation: Total	Greatest in 24 hours	Date (s)	Snow †: Total	Greatest in 24 hours	Date (s)	Relative humidity: 1:00am EST	7:00am EST	1:00pm EST	7:00pm EST	Wind: Average speed	Resultant speed	Resultant direction	Fastest mile (1.6 kilometers): Speed	Direction	Date	Average sky cover sunrise to sunset	Number of days: Sunrise to sunset: Clear, 0–0.3	Partly cloudy, 0.4–0.7	Cloudy, 0.8–1.0	Precipitation .25mm or more	Snow †, 25.4mm or more	Thunderstorms	Heavy fog	Max temp: 32.2 C and above	Max temp: 0 C and below	Min temp: 0 C and below	Min temp: −17.8 C and below
	C	C	C	C		C		Base 18.3 C	Base 18.3 C	mm	mm		mm	mm		%	%	%	%	m/s	m/s		m/s			Tenths											
CALIFORNIA																																					
BAKERSFIELD	25.4	12.3	18.8	43.3	JUL 26	-3.3	JAN 2	1232	1472	104	17	FEB 2-3	0	0		51	36	54	66	3.0	1.1	34	14.3	15	MAR 7	3.8	228	83	54	37	0	2	19	123	0	10	0
BISHOP	22.9	2.9	12.9	42.2	JUL 26	-13.3	JAN 31+	2486	582	65	15	SEP 8	T	[illegible]	NOV 28	30	21						29.5		DEC 30					24	0			91	0	155	0
BLUE CANYON	14.2	5.1	9.7	32.8	JUL 28	-10.[illegible]	NOV 29	3308	208	1793	91	OCT 25-26	7666	556	FEB 1-2	48							15.6	18	FEB 1					102	51			2	29	122	0
EUREKA U	13.3	7.6	10.4	24.4	SEP 4	-.6	NOV 18+	2820	0	1171	102	MAR 17-18	T	T	APR 4								20.6	NW	MAR 25	6.[illegible]	80	98	187	124	0			0	0	7	0
FRESNO	23.3	8.4	15.9	41.1	JUL 26	-5.0	DEC 31+	1737	890	161	19	OCT 30	0	0		60	42	68	82	2.5	0.8	30	13.9	NW	OCT 22+	3.5	208	83	74	46	0	2	37	101	0	44	0
LONG BEACH	22.9	12.2	17.6	40.6	SEP 24+	1.7	JAN 1	769	541	260	64	FEB 2-3	0	0		62	54	76	81	3.0	1.1	24	14.8	26	MAR 25	4.3	169	119	77	34	0	5	38	12	0	0	0
LOS ANGELES	20.7	12.4	16.6	40.0	SEP 23	2.8	JAN 29	877	281	186	45	FEB 2-3	0	0		63	66	[illegible]	81	3.1	1.7	26	20.6	N	MAR 25	4.6	151	121	93	29	0	4	32	3	0	0	0
LOS ANGELES	22.2	12.3	17.2	38.9	SEP 24+	2.2	JAN 29	860	517	272	47	FEB 2-3	0	0									12.1	NW	MAR 26	3.7	189	102	74	33	0			[illegible]	0	0	0
MT SHASTA R	15.7	2.4	9.1	34.7	JUL 26	-12.8	JAN 30	3481	151	800	77	FEB 11-12	3693	638	JAN 31	56	48	66	74											[illegible]	29			16	9	154	0
OAKLAND	17.4	9.8	13.7	36.7	MAY 29	.0	JAN 30	1711	58	446	37	OCT 9-10	0	0		72	66	80	83	4.0	2.1	28	14.3	15	MAR 7	4.4	170	100	95	71	0	1	9	2	0	1	0
RED BLUFF	23.3	9.3	16.3	45.6	JUL 25	-6.7	JAN 28	1744	1046	499	50	FEB 12-13	86	86	JAN 31	54	41	63	72	4.1	0.4	32	18.8	SE	MAR 21	4.3	182	79	104	72	1	4	17	106	0	17	0
SACRAMENTO	23.2	9.3	16.2	44.4	JUL 26+	-3.9	JAN 28	1623	919	335	38	FEB 12-13	0	0		56	43	68	75	3.6	1.4	21	19.2	[illegible]	MAR 25	3.7	203	79	83	63	0	1	35	98	0	14	0
SANDBERG R																							33.1	34	MAR 25												
SAN DIEGO	20.6	13.2	16.9	39.4	SEP 23	4.4	JAN 3	787	304	213	44	MAR 5-6	0	0		61	60	72	73	3.1	1.6	28	13.4	N	NOV 28	4.9	156	106	103	37	0	1	30	3	0	0	0
SAN FRANCISCO	17.6	8.4	13.0	34.4	MAY 29	-1.1	JAN 30	1937	44	438	47	MAR 21	T	T	JAN 31	67	61	77	81	4.6	3.0	29	18.3	[illegible]	JAN 31	4.3	183	79	103	65	0	5	7	2	0	1	0
SAN FRANCISCO	15.3	[illegible]	13.2	33.9	MAY 29	3.9	JAN 29	1841	31	407	33	MAR 21-22																		73				1	0	0	0
SANTA MARIA	19.4	6.7	13.1	37.2	SEP 24	-5.6	JAN 28	1891	19	215	44	FEB 1-2	T	T	NOV 28	61	61									4.0	180	118	67	40	0			2	0	36	0
STOCKTON	22.5	8.4	15.5	42.8	JUL 26	-6.1	JAN 28	1750	765	241	22	MAR 21-22	0	0		63	46	72	83	3.8	1.9	30	15.6	32	MAR 25	4.0	204	59	102	58	0	0	40	15	0	27	0
COLORADO																																					
ALAMOSA	13.5	-5.7	3.9	30.0	AUG 7+	-33.3	JAN 11+	5213	16	158	17	OCT 31	742	140	NOV 18-19	43	39	67	77							4.2	168	120	77	60	14			0	59	289	42
COLORADO SPRINGS	15.7	1.5	9.1	33.9	AUG 7+	-23.9	JAN 12	3556	267	299	60	JUN 9-10	871	157	NOV 8-9	37	37	53	58	4.9	1.1	3	21.5	36	JAN 18	4.9	139	115	111	82	11	53	30	11	29	162	2
DENVER	17.9	1.5	9.7	35.0	AUG 7+	-23.9	FEB 6	3398	308	394	40	AUG 12-13	1628	211	APR 31-1	38	38	58	64	4.5	0.5	21	20.1	NW	DEC 27	5.1	134	115	116	91	11	37	7	24	19	162	5
GRAND JUNCTION	17.3	2.9	10.1	37.2	JUL 1	-22.2	JAN 12	3486	558	233	25	JUL 16	1369	226	APR 17-18	42	36	53	60	2.8	0.5	11	[illegible]	SW	MAR [illegible]	5.[illegible]	141	112	112	75	10	25	7	[illegible]	28	144	[illegible]
PUEBLO	20.3	2.4	11.4	38.3	AUG 7+	-21.7	JAN 12	3024	560	251	39	JUN 9-10	551	104	APR 18	41	34	58	71	4.3	0.4	35	31.3	N	MAY 12	4.7	155	101	[illegible]	66	6	28	11	71	17	159	4
CONNECTICUT																																					
BRIDGEPORT	15.7	7.7	11.7	35.6	AUG 3+	-13.9	DEC 24	2810	447	1205	58	OCT 17-18	594	178	FEB 12	84	83	67	74	4.8	1.4	32	15.6	34	APR 5+	6.[illegible]	72	106	187	128	7	14	33	7	14	96	0
HARTFORD	15.4	6.2	10.8	38.3	AUG 2	-21.1	DEC 24	3163	483	1406	84	SEP 26-27	1085	185	FEB 5	75	76	53	63	3.8	1.1	29	16.5	NW	APR 4	6.8	61	123	181	141	12	22	33	23	21	127	3
DELAWARE																																					
WILMINGTON	17.9	7.9	12.9	36.1	AUG 2	-12.2	FEB 10	2531	612	1260	69	JUL 12-13	287	99	FEB 4-5	75	76	55	64	4.1	1.0	29	17.4	31	APR 3	6.[illegible]	71	114	180	131	4	34	42	12	10	75	[illegible]
DIST OF COLUMBIA																																					
WASHINGTON DULLES	18.[illegible]	6.3	12.2	35.0	AUG 26+	-14.4	JAN 21	2749	556	1337	94	AUG 30-31	450	163	FEB 4-5	83	84	58	70	3.3	0.8	28	17.9	29	APR 3	6.5	71	128	166	144	5	31	35	12	10	130	0
WASHINGTON NATIONAL	20.[illegible]	10.4	15.2	36.7	AUG 3	-8.3	DEC 19	1998	919	1283	135	SEP 25-26	333	107	FEB 4-5	71	73	54	60	3.8	0.8	29	19.2	NW	APR 4+	6.6	80	110	175	125	4	36	11	35	7	53	0
FLORIDA																																					
APALACHICOLA	24.7	16.[illegible]	20.4	34.4	AUG 19	-4.4	DEC 19	622	1446	1761	171	JUL 29-30	T	T	MAR 3								14.8	E	JUL 6	5.6	109	119	137	119	0	93	44	23	0	8	0
DAYTONA BEACH	27.4	16.9	22.2	33.9	AUG 19+	-1.7	DEC 19	346	1800	1148	93	SEP 13-14	0	0		86	88	62	77	3.5	0.5	11	15.6	28	JAN 25	5.9	93	137	135	135	0	102	26	42	0	3	[illegible]

See reference notes at end of table

ANNUAL CLIMATOLOGICAL DATA
METRIC UNITS

YEAR 1975

State and Station	Temperature							Heating degree days	Cooling degree days	Precipitation						Relative humidity				Wind						Average sky cover sunrise to sunset	Number of days										
	Averages			Extremes									Snow †										Fastest mile (1.6 kilometers)				Sunrise to sunset							Max temp		Min temp	
	Daily maximum	Daily minimum	Annual	Highest	Date	Lowest	Date			Total	Greatest in 24 hours	Date (s)	Total	Greatest in 24 hours	Date (s)	1:00am EST	7:00am EST	1:00pm EST	7:00pm EST	Average speed	Resultant speed	Resultant direction	Speed	Direction	Date		Clear, 0-0.3	Partly cloudy, 0.4-0.7	Cloudy, 0.8-1.0	Precipitation 25mm or more	Snow † 25.4mm or more	Thunderstorms	Heavy fog	32.2 C and above	0 C and below	0 C and below	-17.8 C and below
	C	C	C	C		C		Base 18.3 C	Base 18.3 C	mm	mm		mm	mm		%	%	%	%	m/s	m/s		m/s			Tenths											
FLORIDA																																					
FORT MYERS	29.9	18.7	24.3	36.7	JUN 11	2.2	JAN 15	117	2361	1308	98	JUN 30	0	0		86	90	55	72	3.4	0.8	9	13.4	15	JUN 20	5.3	94	179	92	111	0	101	26	141	0	0	0
JACKSONVILLE	26.6	14.7	20.6	35.0	AUG 24+	-5.0	DEC 19	660	1547	1274	137	MAY 27	T	T	MAR 4	89	90	60	77	3.0	0.1	13	27.7	N	MAY 27	6.1	88	122	155	139	0	88	45	74	0	18	0
KEY WEST	28.8	23.7	26.3	33.3	AUG 13	12.2	DEC 24	10	2957	807	100	JUN 21-22	0	0		76	77	67	72	4.8	2.9	11	14.8	E	SEP 7	5.3	94	184	87	115	0	84	0	30	0	0	0
LAKELAND	28.3	17.7	23.0	35.6	JUN 16	-1.1	DEC 22	247	2002	1054	92	AUG 14	0	0												5.4	87	183	95	123	0			86	0	2	0
MIAMI	28.4	21.6	25.0	33.9	APR 15	5.6	DEC 22	59	2539	993	72	OCT 18-19	0	0		81	85	62	71	4.3	2.0	9	15.6	35	JUL 4	5.8	70	195	100	134	0	85	4	22	0	0	0
ORLANDO	28.9	17.0	23.0	34.4	SEP 8+	.0	DEC 22+	246	2001	1195	69	JUL 29-30	0	0		87	89	55	71	3.6	0.4	7	14.3	31	JUN 1	5.8	86	151	128	125	0	111	30	134	0	2	0
PENSACOLA	25.4	15.9	20.7	36.1	SEP 2	-3.9	DEC 19	678	1581	2070	131	JUL 30	0	0		82	84	63	72	3.8	0.6	9	15.6	02	JUL 21	6.1	96	114	155	125	0	82	38	64	0	8	0
TALLAHASSEE	26.2	13.5	19.9	35.6	AUG 25+	-5.6	DEC 24+	835	1447	2183	132	JUL 29-30	T	T	MAR 4	91	93	61	75	2.7	0.3	8	15.6	19	SEP 23	6.1	85	135	145	145	0	102	53	74	0	38	0
TAMPA	28.9	18.1	23.6	36.7	AUG 22+	-1.1	DEC 19	269	2225	1103	80	JUN 18	0	0		81	84	55	69	3.6	0.6	9	13.0	08	OCT 31+	5.8	99	129	137	112	0	113	18	133	0	1	0
WEST PALM BEACH	28.5	19.6	24.1	33.3	JUL 27	2.8	DEC 22	86	2224	1128	110	SEP 18-19	0	0		85	85	61	76	4.1	1.7	11	13.0	24	JUN 9	6.1	59	184	122	129	0	94	6	21	0	0	0
GEORGIA																																					
ATHENS	22.4	11.6	17.0	36.7	AUG 26	-10.0	DEC 19	1451	1021	1576	104	MAR 13-14	25	25	NOV 23	83	88	62	69	3.0	0.5	28	13.4	18	MAR 13	6.1	107	86	172	135	1	62	62	30	0	38	0
ATLANTA	21.7	10.9	16.3	35.6	SEP 4	-10.6	DEC 19	1574	889	1676	57	APR 2-3	15	15	NOV 23	81	85	61	67	3.8	0.4	29	21.9	SW	DEC 31	6.4	98	86	181	145	0	57	39	13	0	50	0
AUGUSTA	23.9	11.1	17.6	36.7	SEP 5+	-8.3	DEC 19	1328	1101	1398	116	SEP 20-21	T	T	MAR 9	83	86	55	69	3.0	0.3	25	15.6	29	JUL 6+	6.0	107	100	158	123	0	57	54	47	0	46	0
COLUMBUS	24.2	12.4	18.3	35.6	AUG 25	-7.8	DEC 19	1160	1225	1609	107	APR 13-14	T	T	NOV 23	84	89	58	69	3.1	0.4	2	15.6	11	SEP 23	6.1	97	101	167	125	0	75	29	54	0	38	0
MACON	24.4	11.9	18.2	36.7	AUG 26+	-9.4	DEC 19	1147	1154	1409	82	FEB 17	0	0		84	88	57	68	3.1	0.3	29	20.6	SW	MAY 16	6.2	102	89	174	128	0	71	51	46	0	37	0
ROME	22.4	9.9	16.2	37.2	SEP 4	-11.1	DEC 19	1640	926	1653	87	SEP 22-23	T	T	NOV 13+															127	0			36	1	62	0
SAVANNAH	25.4	14.1	19.7	35.0	AUG 24+	-7.2	DEC 19	856	1430	1300	69	SEP 7-8+	0	0		88	90	58	73	3.2	0.2	26	16.1	W	JAN 25	6.3	99	83	183	125	0	80	51	50	0	21	0
HAWAII																																					
HILO	27.0	18.9	23.0	31.1	FEB 2	13.9	DEC 18	0	1747	2538	204	JAN 7-8	0	0		79	66	80	85	2.9	0.4	16	11.6	SE	FEB 1	7.4	37	110	218	294	0	7	0	0	0	0	0
HONOLULU	28.7	20.4	24.6	32.2	SEP 2	13.3	DEC 9+	0	2315	620	139	NOV 24-25	0	0		72	56	70	77	5.5	4.6	6	16.1	SE	JAN 31	5.8	70	204	91	82	0	8	0	1	0	0	0
KAHULUI	27.9	18.9	23.4	31.7	JUN 22	12.2	JAN 28	0	1903	349	51	JAN 12	0	0		73	56	70	76	6.0	5.1	5	16.1	E	OCT 25	5.0	141	134	90	76	0	3	0	0	0	0	0
LIHUE	26.8	21.5	24.2	30.0	OCT 24	13.3	MAR 30	0	2176	902	167	FEB 31-1	0	0		75	64	74	77	5.8	4.6	7	15.6	S	JAN 31	6.2	49	206	110	181	0	4	0	0	0	0	0
IDAHO																																					
BOISE	16.6	4.2	10.4	42.2	JUL 27	-20.6	JAN 2	3271	438	348	16	FEB 12-13	648	81	JAN 9-10	50	43	58	66	3.9	0.2	36	18.8	NW	JUL 29+	6.0	109	86	170	102	11	15	33	43	24	115	2
LEWISTON	16.6	5.4	11.0	41.1	JUL 10	-12.2	JAN 11	3029	423	386	25	DEC 6-7	478	117	FEB 2	62	50		77				24.6		MAR 30	6.9	82	71	212	121	6			33	10	98	0
POCATELLO	14.3	1.3	7.8	37.2	JUL 27+	-24.4	JAN 1	4015	244	343	26	OCT 25-26	1527	160	OCT 72	54	45	60	70	4.8	2.7	23	18.8	SW	JUN 2+	6.3	102	82	181	112	23	14	17	33	37	166	8
ILLINOIS																																					
CAIRO	19.8	11.0	15.4	36.1	JUL 4	-10.6	DEC 18	2048	1063	1448	98	MAR 27-28	343	160	MAR 9-10								19.7	SW	MAR 24					123	3			50	7	59	0
CHICAGO O HARE	15.3	5.7	10.5	34.4	AUG 21	-21.7	FEB 9	3350	578	1006	90	AUG 29-30	1029	277	APR 2-3	77	80	61	64	4.8	0.9	24	17.4	23	NOV 10+	6.7	68	109	188	141	9	56	11	21	34	125	3
CHICAGO MIDWAY	15.4	6.1	10.8	34.4	AUG 11+	-21.1	FEB 9	3305	624	1068	97	APR 18	1354	244	APR 2-3	73	78	60	63	4.5	0.8	22	19.2	S	NOV 30	6.6	80	95	190	145	14	66	9	26	38	126	3
MOLINE	15.6	4.8	10.2	36.7	AUG 12	-22.2	JAN 20	3481	580	735	42	JUL 23	1466	257	FEB 23-24	77	80	60	64	4.4	0.7	23	19.2	SW	DEC 14+	6.2	104	85	176	130	13	59	11	32	56	135	4
PEORIA	15.7	5.3	10.5	33.3	AUG 24	-25.6	FEB 9	3333	549	1047	84	JUL 23-24	927	173	NOV 26	81	84	63	67	4.3	0.8	20	22.4	W	JUL 23	6.6	84	88	193	123	12	59	23	20	49	131	4
ROCKFORD	14.4	3.4	8.9	35.0	MAY 19	-25.0	FEB 9	3811	469	782	39	NOV 29-30	1273	188	FEB 14-15	77	80	59	63	4.4	0.5	23	17.0	23	NOV 30+	6.6	81	98	186	125	13	48	17	16	65	147	11
SPRINGFIELD	17.2	6.7	11.9	35.6	AUG 23	-21.7	FEB 9	2932	667	957	71	JAN 9-10	925	193	NOV 26	80	84	62	66	4.6	1.0	21	21.9	SW	NOV 29	6.5	86	98	181	120	11	61	18	32	28	114	1

See reference notes at end of table

ANNUAL CLIMATOLOGICAL DATA

METRIC UNITS

YEAR [illegible]

State and Station	Temperature							Heating degree days	Cooling degree days	Precipitation						Relative humidity				Wind						Average sky cover sunrise to sunset	Number of days										
	Averages			Extremes									Snow †										Fastest mile (1.6 kilometers)				Sunrise to sunset							Max temp		Min temp	
	Daily maximum	Daily minimum	Annual	Highest	Date	Lowest	Date			Total	Greatest in 24 hours	Date (s)	Total	Greatest in 24 hours	Date (s)	00am EST	700am EST	100pm EST	700pm EST	Average speed	Resultant speed	Resultant direction	Speed	Direction	Date		Clear, 0-03	Partly cloudy, 04-07	Cloudy, 08-10	Precipitation 25mm or more	Snow † 25.4mm or more	Thunderstorms	Heavy fog	32.2 C and above	0 C and below	0 C and below	-17.8 C and below
INDIANA	C	C	C	C		C		Base 18.3 C	Base 18.3 C	mm	mm		mm	mm		%	%	%	%	m/s	m/s		m/s			Tenths											
EVANSVILLE	19.2	8.6	13.9	35.[illegible]	JUL 17	-11.7	DEC 18+	238	833	1296	79	APR 24-25	485	[illegible]	MAR 9-10	79	82	62	65	3.4	0.6	22	[illegible]	SW	MAY 25	6.3	[illegible]	105	[illegible]	119	4	47	11	53	11	64	0
FORT WAYNE	15.2	5.2	10.2	33.9	JUL 31	-25.0	FEB 10	3347	463	933	49	AUG 2-3	942	124	DEC 25-26	[illegible]	83	63	67	4.7	1.2	24	22.4	SW	JAN [illegible]	6.[illegible]	[illegible]	97	196	142	12	[illegible]	19	[illegible]	35	137	2
INDIANAPOLIS	16.8	6.3	11.6	32.8	AUG 23+	-20.0	FEB 10+	2976	581	1187	95	JUN 25	884	135	MAR 14	86	89	67	72	4.3	[illegible]	23	21.9	W	MAY 26+	6.6	83	93	189	[illegible]	11	[illegible]	17	8	25	[illegible]	2
SOUTH BEND	15.4	5.7	10.6	33.3	AUG 1+	-23.9	FEB 10	3249	474	1153	50	APR 18	1803	183	MAR 2-3	82	85	65	69	4.6	1.3	24	23.2	22	JAN [illegible]	7.[illegible]	67	112	[illegible]	[illegible]	16	[illegible]	5	[illegible]	27	126	2
IOWA																																					
BURLINGTON	15.7	5.4	10.6	37.4	AUG 12	-25.0	FEB 9	[illegible]	584	836	56	AUG 29	1138	152	APR 2+	[illegible]	[illegible]	67	68	4.3	0.6	24	15.6	25	JAN [illegible]	6.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17	[illegible]	[illegible]	25	5	150	4
DES MOINES	15.6	5.1	10.3	37.2	AUG 23+	-25.6	FEB 9	3529	687	803	157	AUG 27	1240	[illegible]	JAN 2-3	73	78	59	[illegible]	4.7	[illegible]	[illegible]	[illegible]	NW	JAN 11	6.1	[illegible]	93	[illegible]	[illegible]	[illegible]	[illegible]	16	36	64	140	[illegible]
DUBUQUE	12.9	2.9	7.9	32.8	JUL 31+	-26.1	FEB 9	4100	384	826	76	AUG 21-22	1659	254	FEB 23-24		[illegible]	62												121	[illegible]			4	39	151	16
SIOUX CITY	14.6	3.1	8.8	36.7	JUL 5	-31.1	FEB 9	3957	563	668	45	JUN 18+	963	191	JAN 10-11	76	[illegible]	62	62	5.1	[illegible]	15	[illegible]	NW	MAY [illegible]	5.9	118	[illegible]	157	[illegible]	11	33	4	[illegible]	[illegible]	[illegible]	[illegible]
WATERLOO	13.8	2.5	8.2	34.4	JUL 30+	-27.8	FEB 9	4149	505	612	36	AUG 19	1054	112	JAN 2	76	[illegible]	54	[illegible]	4.9	0.5	20	17.4	34	AUG 11	6.6	84	[illegible]	[illegible]	[illegible]	13	41	19	32	54	156	23
KANSAS																																					
CONCORDIA	17.8	5.4	11.6	39.4	AUG 11	-18.9	MAR 14+	3140	778	638	60	AUG 13-14	988	191	MAR 9	75	82	59	58	5.3	1.1	17	24.1	NW	JUN [illegible]	5.4	[illegible]	91	135	94	[illegible]	[illegible]	[illegible]	56	37	[illegible]	5
DODGE CITY	19.9	5.8	12.8	39.4	AUG 31	-18.9	JAN 12	[illegible]	836	478	40	JUL 6	417	85	FEB 16	55	[illegible]	48	46	6.3	1.3	18	25.[illegible]	NW	NOV [illegible]	4.9	135	99	131	[illegible]	8	45	17	64	37	135	[illegible]
GOODLAND	18.3	3.4	10.4	38.3	AUG 7+	-21.1	JAN 12	3302	489	432	81	MAY 28-29	1029	335	NOV 18-19	46	44	68	75	6.0	1.1	22	23.2	33	MAY 19	4.9	148	[illegible]	[illegible]	72	12	43	12	[illegible]	25	155	6
TOPEKA	18.7	6.2	12.4	39.4	SEP 1	-17.8	FEB 9+	2889	819	740	50	JUN 8-9	866	198	MAR 9	[illegible]	[illegible]	61	60	4.2	0.5	19	18.8	[illegible]	APR 18	5.8	117	86	[illegible]	[illegible]	11	33	17	52	[illegible]	[illegible]	2
WICHITA	19.2	6.6	12.9	36.9	AUG 11+	-17.2	NOV 26	2749	840	753	60	MAY 27-28	912	224	FEB 16	75	[illegible]	58	59	5.6	1.3	18	21.9	NW	MAR 23	5.2	[illegible]	92	131	92	6	53	16	[illegible]	[illegible]	[illegible]	[illegible]
KENTUCKY																																					
COVINGTON	18.3	7.2	12.7	34.[illegible]	AUG 13	-14.4	JAN 13	2619	645	1123	57	OCT 17-18	422	99	MAR 10	78	[illegible]	[illegible]	66	3.9	1.1	23	15.6	23	MAR 24	6.7	[illegible]	97	[illegible]	[illegible]	3	57	[illegible]	35	[illegible]	[illegible]	[illegible]
LEXINGTON	18.4	8.1	13.3	33.9	SEP 5+	-13.9	JAN 13	2492	702	1501	84	APR 24-25	320	137	MAR 10		82	61	65				14.3	[illegible]	JUL 31	6.7	74	[illegible]	163	147	3	55	6	23	[illegible]	[illegible]	0
LOUISVILLE	19.5	9.1	14.3	34.4	SEP 2+	-11.1	DEC 19	2249	837	1430	90	APR 24-25	384	163	MAR 9-10	77	82	[illegible]	63	3.8	[illegible]	22	18.8	SW	JAN 25	6.6	69	111	185	141	5	57	[illegible]	48		79	[illegible]
LOUISIANA																																					
ALEXANDRIA	25.2	13.1	19.2	36.7	SEP 2+	-7.8	DEC 19	1061	1421	1476	118	OCT 15-16	8	8	JAN 12	88	[illegible]	61	68	2.7	[illegible]	13	15.6	27	MAY 29	5.7	[illegible]	113	148	118	[illegible]	75	[illegible]	[illegible]	[illegible]	31	[illegible]
BATON ROUGE	25.4	14.2	19.8	34.4	SEP 3+	-6.7	DEC 19	865	1455	1679	104	JAN 7-8	T	T	JAN 12	85	89	62	68	3.4	0.8	11	16.5	32	AUG [illegible]	6.4	79	115	171	[illegible]	0	85	43	65	[illegible]	14	0
LAKE CHARLES	25.2	14.8	20.0	35.[illegible]	AUG 21	-4.4	JAN 13	786	1450	1410	100	SEP 16	0	0		[illegible]	93	66	76	3.9	1.3	10	17.0	33	MAY 7	6.2	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]	55	47	[illegible]	10	[illegible]
NEW ORLEANS	25.1	15.1	20.1	34.4	MAY 17	-3.9	JAN 14	776	1465	2045	[illegible]	NOV 5-6	0	0		[illegible]	[illegible]	71	78	3.4	0.6	[illegible]	20.6	21	JAN 10	6.4	65	115	165	132	0	75	36	41	[illegible]	14	0
SHREVEPORT	24.6	11.8	18.2	36.7	SEP 3	-8.9	JAN 13	1211	1238	1114	70	OCT 24-25	86	86	JAN 12	[illegible]	85	58	62	3.3	[illegible]	15	23.2	28	APR 19	5.9	[illegible]	[illegible]	158	[illegible]	[illegible]	73	17	73	[illegible]	38	[illegible]
MAINE																																					
CARIBOU	9.3	-1.4	3.9	35.0	AUG 2	-33.9	JAN 21	5365	151	795	35	MAY 20-21	3076	355	DEC 26		76	59	65							7.[illegible]	[illegible]	93	211	144	[illegible]			6	97	186	51
PORTLAND	13.1	2.3	7.7	39.4	AUG 2	-28.9	DEC 30	4026	195	1237	71	DEC 25-26	1623	229	DEC 17-18	84	[illegible]	62	75	4.1	[illegible]	29	[illegible]	W	APR [illegible]	6.5	[illegible]	95	177	135	15	15	45	[illegible]	[illegible]	[illegible]	[illegible]
MARYLAND																																					
BALTIMORE	18.8	8.6	13.7	37.2	AUG 26	-10.6	JAN 15	2334	692	1316	88	JUL 13	318	112	FEB 4	77	79	58	65	3.8	1.2	28	22.4	W	APR 3	6.5	81	112	[illegible]	126	5	[illegible]	19	28	5	92	[illegible]
MASSACHUSETTS																																					
BLUE HILL OBS'Y	14.5	5.1	9.8	38.3	AUG 2	-18.3	DEC 24	3355	314	1584	78	OCT 17-18	1572	235	FEB 5	[illegible]	[illegible]	65	71				29.1	NW	JAN 24					[illegible]	15			5	37	129	2
BOSTON	15.8	7.3	11.6	38.9	AUG 2	-15.6	DEC 24	2874	479	1143	66	NOV 12-13	1052	295	DEC 20-21	[illegible]	[illegible]	57	63	5.[illegible]	1.6	28	17.9	W	JAN 29	6.[illegible]	[illegible]	87	167	125	8	[illegible]	[illegible]	15	[illegible]	[illegible]	[illegible]
WORCESTER	13.3	3.8	8.6	35.6	AUG [illegible]	-23.[illegible]	FEB [illegible]	3746	252	1320	64	NOV 12-13	1788	307	FEB 5	77	76	59	69	4.[illegible]	2.0	29	15.6	32	MAR 20+	6.6	76	112	178	131	17	14	[illegible]	3	45	[illegible]	3

See reference notes at end of table

ANNUAL CLIMATOLOGICAL DATA

METRIC UNITS

YEAR 1975

State and Station	Temperature							Heating degree days	Cooling degree days	Precipitation						Relative humidity				Wind						Average sky cover sunrise to sunset	Number of days										
	Averages			Extremes									Snow †										Fastest mile (1.6 kilometers)				Sunrise to sunset							Max temp		Min temp	
	Daily maximum	Daily minimum	Annual	Highest	Date	Lowest	Date			Total	Greatest in 24 hours	Date (s)	Total	Greatest in 24 hours	Date (s)	1:00am EST	7:00am EST	1:00pm EST	7:00pm EST	Average speed	Resultant speed	Resultant direction	Speed	Direction	Date		Clear, 0.0-0.3	Partly cloudy, 0.4-0.7	Cloudy, 0.8-1.0	Precipitation 25mm or more	Snow † 25.4mm or more	Thunderstorms	Heavy fog	32.2 C and above	0 C and below	0 C and below	-17.8 C and below
MICHIGAN	C	C	C	C		C		Base 18.3 C	Base 18.3 C	mm	mm		mm	mm		%	%	%	%	m/s	m/s		m/s			Tenths											
ALPENA	12.5	.8	6.7	35.1	JUL 31	-28.3	FEB 9	4386	211	871	66	JUL 23-24	1847	142	DEC 30	80	83	59	67	3.9	1.0	25	16.1	SW	JAN 11	6.6	77	106	182	143	27	41	26	6	70	170	15
DETROIT																71	74	58	61				15.6	25	NOV 10+												
DETROIT METRO	14.6	4.8	9.7	35.0	AUG 1	-21.1	FEB 10	3481	406	879	78	AUG 29-30	1189	160	DEC 25-26	79	82	62	67	5.4	1.4	25	23.2	SW	MAR 24	6.6	82	102	181	149	14	38	21	4	39	139	3
FLINT	13.9	4.4	9.2	33.3	AUG 1+	-21.7	DEC 22	3579	306	1153	112	AUG 21	2134	424	APR 2-3	78	81	67	66	4.3	1.3	24	17.4	27	NOV 10	7.0	65	95	205	140	26	35	21	2	44	135	5
GRAND RAPIDS	13.9	3.3	8.6	33.9	AUG 1+	-19.4	FEB 10	3924	344	1048	57	JUN 14-15	1854	249	APR 2-3	83	85	65	69	4.0	1.1	23	29.5	S	NOV 10	7.2	64	83	218	154	27	54	24	6	66	151	4
HOUGHTON LAKE	12.1	1.3	6.7	33.3	AUG 1+	-23.9	MAR 9	4376	205	809	61	AUG 31	1605	102	APR 2-3	83	85	63	67	4.0	1.0	26	15.6	22	JAN 11	6.9	66	101	198	154	28	45	24	2	93	163	11
LANSING	14.3	3.4	8.9	36.1	AUG 1	-23.3	DEC 22+	3729	338	1005	95	AUG 21-22	1801	330	APR 2-3	83	85	63	69	4.3	1.3	22	24.1	NW	JUN 15+	7.0	70	90	205	142	22	42	24	6	49	146	6
MARQUETTE	10.5	2.6	6.6	35.6	AUG 1+	-23.3	FEB 9	4458	229	782	50	MAY 19	3172	389	FEB 24-25								20.1	SW	JAN 11	6.9	71	91	203	151	30			10	102	152	6
MUSKEGON	13.6	4.6	9.1	33.9	JUL 31	-17.2	FEB 10	3620	324	1021	94	AUG 30-31	2537	193	APR 2-3	79	82	64	67	4.8	1.0	24	19.2	23	JAN 11	7.0	72	90	203	155	35	48	27	3	47	141	0
SAULT STE MARIE	10.5	-.7	4.9	36.1	JUL 31	-30.0	JAN 22	4948	135	861	41	JUN 16-17	2944	216	MAR 24	83	85	66	73	3.8	0.3	30	26.8	NW	NOV 10	7.0	66	93	206	163	37	30	42	3	103	175	29
MINNESOTA																																					
DULUTH	8.0	-1.6	3.2	33.9	JUL 29	-31.1	JAN 22	5575	127	747	46	NOV 19-20	2776	356	NOV 19-20	78	82	67	66	5.2	0.4	26	24.1	NE	MAR 23	6.5	78	108	179	142	27	45	57	2	127	170	51
INTERNATIONAL FALLS	8.7	-3.5	2.6	36.7	JUL 29	-37.2	FEB 13	5842	182	653	82	JUN 24	2339	450	JAN 10-11	76	79	60	61	3.8	0.6	23	14.3	11	APR 28	6.8	75	96	194	134	22	34	23	8	123	188	78
MINNEAPOLIS	12.2	2.1	7.1	36.7	JUL 29	-30.0	FEB 9	4484	472	893	67	JUN 11-12	1999	213	NOV 20-21	73	77	61	61	4.2	0.4	21	22.4	NW	JUL 23	6.7	80	92	193	125	27	46	14	20	101	154	30
ROCHESTER	12.5	1.2	6.8	34.4	JUL 3	-30.6	FEB 9	4513	396	716	57	NOV 9-10	1308	112	FEB 4-5	79	81	64	67	5.7	1.1	22	20.6	11	MAR 27+	6.7	78	92	195	125	19	38	38	11	99	163	31
ST CLOUD	11.3	-1.3	5.0	36.7	JUL 29	-32.2	FEB 6	5094	301	735	53	AUG 19-20	1913	290	NOV 19-20		86	61	65							6.6	81	95	189	115	22			16	114	178	60
MISSISSIPPI																																					
JACKSON	24.3	12.4	18.4	35.0	JUL 21	-8.3	DEC 19	1189	1278	1784	178	OCT 15-16	T	T	DEC 24 +	90	93	64	73	3.2	0.6	16	16.1	SW	MAY 29	6.0	100	115	150	134	0	83	31	70	0	40	0
MERIDIAN	24.2	11.6	17.9	34.4	SEP 4+	-9.4	DEC 19	1316	1231	1665	96	FEB 15-16	T	T	DEC 24-25+	87	88	61	72	2.2	0.2	20	14.8	15	MAY 29	6.3	86	110	169	127	0	67	46	76	0	53	0
MISSOURI																																					
COLUMBIA REGIONAL	17.3	6.5	11.9	37.2	AUG 11	-21.1	FEB 9	2884	626	1121	101	AUG 25-26	892	300	FEB 23	75	79	59	61	4.2	0.8	19	21.0	SW	MAY 20	6.2	99	95	171	102	8	59	21	30	28	120	2
KANSAS CITY	17.8	6.9	12.4	39.4	AUG 11	-18.9	FEB 9	2953	852	865	119	APR 23-24	714	155	NOV 25-26	75	82	60	61	4.6	1.0	19	18.3	SW	DEC 14	5.5	133	88	144	97	8	54	33	52	43	122	2
ST JOSEPH																		56	56																		
ST LOUIS	18.4	7.4	12.9	38.3	AUG 12	-17.8	FEB 9	2695	795	1021	62	JAN 9-10	864	198	FEB 23-24	84	91	64	67	4.0	0.7	22	18.3	NW	AUG 25	5.9	105	109	151	119	9	63	14	40	25	115	1
SPRINGFIELD	19.4	6.9	13.2	36.7	JUL 6	-16.1	FEB 9	2559	750	1370	123	JUN 9-10	894	302	FEB 23	80	84	58	62	4.2	1.3	18	20.1	S	MAY 20	5.4	130	100	135	115	6	69	21	47	13	105	0
MONTANA																																					
BILLINGS	12.8	.9	6.9	38.3	JUL 28	-24.4	FEB 5+	4368	266	521	41	JUL 4	2357	358	JAN 25-26	51	45	57	62	5.4	2.2	27	21.9	W	DEC 1	6.2	95	104	166	121	30	27	23	20	68	162	22
GLASGOW	11.4	-1.2	5.1	39.4	JUL 29	-30.0	DEC 17	4951	210	353	60	JUL 30-1	853	135	OCT 13-14	59	54	72	78	4.8	0.8	2	19.7	27	AUG 7	6.2	97	101	167	117	10	32	9	15	85	182	28
GREAT FALLS	11.6	-.5	5.6	40.0	JUL 27	-31.1	FEB 4	4756	175	641	36	APR 25-26	2530	224	APR 7-8	57	52	68	73	5.8	3.4	24	23.2	SW	OCT 4	7.0	66	96	203	137	34	21	16	14	69	179	31
HAVRE	12.1	-1.4	5.3	41.1	JUL 27	-32.8	FEB 5	4853	196	463	45	JUL 30-31	1994	330	APR 7-8	56	52		75				24.1	SW	AUG 21	6.4	87	101	177	116	23	30	8	17	70	172	41
HELENA	10.8	-1.4	4.7	35.6	JUL 27	-31.1	FEB 6	4974	93	532	41	JUL 30-31	1750	282	JAN 25-26	56	49	65	72	3.4	1.9	28	29.1	SW	JUL 3	6.8	73	83	209	125	21	26	12	6	68	191	24
KALISPELL	11.5	-1.0	5.3	37.8	JUL 27	-30.6	FEB 9	4814	115	431	21	JUN 16	2040	168	FEB 6-7	59	52	70	76	3.2	0.3	17	16.5	02	FEB 4	7.1	77	63	225	133	25	18	16	15	69	189	22
MILES CITY	13.0	.4	6.7	41.1	JUL 28	-27.2	DEC 17	4513	350	510			1173			60	55	71	80	5.0	1.3	32								120	17	27	19	27	70	173	20
MISSOULA	12.4	-.6	5.9	37.8	JUL 27	-26.7	JAN 31	4606	143	469	30	OCT 20-21	1742	366	FEB 7	66	57	77	85	2.8	0.5	32	18.3	NW	SEP 16	7.0	77	74	214	144	17	24	26	19	53	197	12
NEBRASKA																																					
GRAND ISLAND	15.7	3.2	9.4	38.3	AUG 31+	-26.7	FEB 9	3760	589	547	58	JUN 18	980	183	NOV 19-20	75	80	57	57	5.5	0.7	21	23.2	32	JUN 18	5.2	141	99	125	89	13	40	28	43	61	149	9
LINCOLN	16.4	3.7	10.1	38.3	SEP 1	-31.1	FEB 9	3641	712	517	38	NOV 19-20	1003	203	JAN 10	78	83	60	61	4.8	0.4	21	21.5	NW	NOV 20+	5.5	129	108	128	87	12	45	13	50	66	152	12

See reference notes at end of table

ANNUAL CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Temperature: Averages: Daily maximum	Daily minimum	Annual	Extremes: Highest	Date	Lowest	Date	Heating degree days	Cooling degree days	Precipitation: Total	Greatest in 24 hours	Date (s)	Snow †: Total	Greatest in 24 hours	Date (s)	Relative humidity: 1 00 am E S T	7 00 am E S T	1 00 pm E S T	7 00 pm E S T	Wind: Average speed	Resultant speed	Resultant direction	Fastest mile (1 6 kilometers): Speed	Direction	Date	Average sky cover sunrise to sunset	Number of days: Sunrise to sunset: Clear, 0-0 3	Partly cloudy, 0 4-0 7	Cloudy, 0 8-1 0	Precipitation 25mm or more	Snow † 25 4mm or more	Thunderstorms	Heavy fog	Max temp: 32 2 C and above	0 C and below	Min temp: 0 C and below	- 17 8 C and below
NEBRASKA	C	C	C	C		C		Base 18 3 C	Base 18 3 C	mm	mm		mm	mm		%	%	%	%	m s	m s		m s			Tenths											
NORFOLK	14.8	1.9	8.4	38.4	5	-30.6	FEB 9	3944	[illegible]	[illegible]	51	JUN 7-9	1173	188	NOV 19-20		8	58	58							5.6	119	112	134	98	16			41	77	154	16
NORTH PLATTE	17.7	.4	8.3	37.2	AUG 3+	-25.6	FEB 9	3985	474	411	55	JUN 7-8	625	165	NOV 19	73	8	50	49	4.3	0.4	4	30.8	SE	APR 8	5.4	125	111	129	82	8	34	16	29	53	189	18
OMAHA	17.7	4.3	10.8	39.4	JUL 1+	-28.3	FEB 4	3451	172	509	40	SEP 4-5	1300	307	JAN 10	77	81	61	60	4.6	0.4	19	19.7	NW	NOV 20	5.6	124	107	134	107	14	55	25	59	46	144	15
SCOTTSBLUFF	17.2	.9	9.1	38.4	AUG 7	-27.2	FEB 4+	3151	44	323	30	MAR 26-27	1687	240	MAR 26-27	44	41	64	72	4.6	1.1	33	24.1	33	MAR 23	5.4	117	117	131	85	17	32	5	49	34	170	12
VALENTINE	15.4	.7	8.1	38.9	AUG 31+	-33.3	FEB 9	4172	271	284	33	AUG 2	1135	175	MAR 26-27								32.6	SE	JUN 18	5.3	135	112	128	69	13			42	53	176	23
NEVADA																																					
ELKO	14.9	-.9	7.1	41.7	JUL 27	-25.6	JAN 1	4136	157	288	26	MAR 24-25	1542	254	APR 5-6	5	39	59	68	2.7	0.8	25	15.6	27	NOV 10+	5.6	126	82	157	87	11	16	5	25	36	196	10
ELY	15.4	-3.1	6.2	34.4	JUL 17	-23.3	JAN 1	4454	93	248	22	MAY 4-5	2117	203	MAY 4-5	46	4	62	70	4.4	1.7	21	24.1	SE	JUN 24	5.4	120	108	137	84	31	15	3	15	25	236	19
LAS VEGAS	25.8	11.5	18.7	45.6	JUL 24	-5.0	DEC 15	1457	1652	88	23	SEP 16	T	T	NOV 29-29+	24	19	28	35	4.5	1.6	25	21.5	N	MAR 16	3.0	232	89	44	27		14	1	135	1	37	0
RENO	18.8	-.7	9.1	39.4	JUL 16	-22.1	JAN 2	3512	193	177	23	SEP 9-10	1080	173	FEB 4	47	33	57	74	3.0	0.9	27	29.5	SW	FEB 12	4.6	16	99	11	54	13	1	4	45	6	199	3
WINNEMUCCA	17.9	.5	9.2	41.1	JUL 27+	-26.1	JAN 1	3520	271	218	19	AUG 18-19	856	104	MAY 3-4	43	33	51	58	3.7	0.6	26	16.5	SW	NOV 1	5.4	129	93	143	82	15	11	4	55	14	177	4
NEW HAMPSHIRE																																					
CONCORD	14.3	.6	7.4	35.3	AUG 1	-31.7	FEB 23	4205	307	1074	62	SEP 26-27	1882	235	FEB 5-6	85	85	56	69	3.0	1.1	29	17.9	NW	JAN 30	6.4	88	111	156	128	7	14	54	19	46	173	28
MT WASHINGTON OBS	[illegible]	-6.4	-2.7	22.1	AUG 1	-45.6	DEC 19	7592	[illegible]	2085	97	MAR 20-21	9957	587	APR 4-5	87	85	83	85	15.1			72.2	N	APR 2	8.0	39	78	248	22	6	1	332		153	235	57
NEW JERSEY																																					
ATLANTIC CITY	17.2	6.8	12.1	35.1	AUG 8	-12.8	DEC 19	2714	471	1278	66	AUG 4-5	175	51	MAR 10	87	8	63	73	4.3	1.3	28	17.4	29	APR 3	6.	68	121	176	13	4	35	46	9	7	176	0
NEWARK	17.1	8.4	12.7	36.7	AUG 8	-11.1	JAN 11	2585	611	1337	65	AUG 24-25	447	239	FEB 12-13	73	74	56	62	4.1	1.3	30	15.6	31	APR 4	6.8	7	114	184	135	4	29	16	12	1	46	3
TRENTON	17.3	8.3	12.8	35.7	AUG 3+	-11.7	JAN 11	2541	594	1509	155	JUL 20-21	424	104	FEB 12								2	NW	APR 4	6.4	9	104	171	131	6			12	11	79	0
NEW MEXICO																																					
ALBUQUERQUE	20.4	4.3	12.4	36.1	AUG 3+	-17.2	JAN 4	2713	511	203	19	SEP 3-4	373	104	FEB 21-22	3	4	4	61	4.5	0.4	27	25.	E	FEB 21+	4.	154	98	63	54	5	33	1	5	4	14	
CLAYTON	19.	3.4	11.2	35.	AUG 24	-21.7	JAN 12	2926	399	338	35	JUL 9-10	424	51	JAN 9	4			69											66	8			22	13	1	0
ROSWELL	13.5	5.8	15.2	38.3	JUN 14	-11.1	JAN 12	1891	738	244	53	SEP 11-12	175	64	FEB 22	43	31	55	69	3.9	0.8	21	32.6	NW	JUN 23	3.7	2	95	6	47	4	3	15	66	7	1	0
NEW YORK																																					
ALBANY	14.6	4.0	8.9	35.1	AUG 3+	-27.2	FEB 10	3702	332	1195	58	OCT 17-18	1521	224	DEC 20-21	79	78	54	68	4.3	1.4	26	2 .1	NW	JAN 30	6.9	61	112	192	52	19	31	3	4	41	145	14
BINGHAMTON	13.6	3.9	8.2	31.2	JUL 17	-20.6	JAN 11	3938	317	1199	75	SEP 25-26	1725	180	DEC 25-26	8	8	66	72	4.5	1.6	28	17.	W	AUG 26+	7.3	49	102	214	175	13	35	46	1	7	148	4
BUFFALO	13.7	5.1	9.4	33.3	AUG 2+	-20.	DEC 24	3590	352	979	91	AUG 29-30	2101	173	APR 4-5	82	83	64	7	4.9	2.1	24	21.	SW	FEB 26+	7.5	46	94	225	148	13	33	15	3	54	130	1
NEW YORK C PARK	16.8	8.6	12.7	35.7	AUG	-9.4	JAN 11	2542	549	1555	73	SEP 24-25	386	198	FEB 12					3.7	1.0	35	13.4	W	APR 3					13	4	31		8	12	75	0
NEW YORK KENNEDY	16.	8.9	12.6	36.7	AUG 1	-10.0	DEC 25	2537	473	1492	83	SEP 26-27	292	155	FEB 12-13	75	75	61	59	5.6	1.3	29	19.2	27	APR 3	6.4	85	123	157	126	2	17	42	4	9	65	
NEW YORK LA GUARDIA	16.	9.0	12.6	35.6	AUG 1	-1 .	JAN 11	2545	529	1544	82	SEP 26-27	363	150	FEB 12-13	69	69	57	51	4.7	1.2	30	20.1	N	JAN 30	6.6	7	114	181	132	4	31	12	7	17	59	
ROCHESTER	14.3	4.6	9.4	35.	AUG 1	-2 .	DEC 14	3526	364	777	35	SEP 25-26	2283	170	DEC 9-10	81	8	6	69	4.6	2.	24	25.	SW	APR 19	7.4	55	88	222	145	26	2	6	8	52	139	1
SYRACUSE	14.2	4.	9.2	33.3	AUG 2+	-22.	DEC 14	3559	308	1318	1 5	SEP 25-26	2578	180	APR 4	8	8	63	7	4.3	1.3	28	19.7	SW	APR 1	7.3	5	102	211	144	32	42	8	6	44	136	4
NORTH CAROLINA																																					
ASHEVILLE	19.7	7.	13.4	33.3	SEP 4	-13.8	DEC 19	2601	442	1440	97	SEP 23	351	127	NOV 23	9	9	61	73	3.4	0.7	34	17.9	34	JAN	6.	93	120	152	126	4	43	103	2		105	0
CAPE HATTERAS	21.	13.6	17.7	33.4	AUG 16+	-6.7	DEC 19	1243	1078	1231	73	NOV 23-24	T	T	MAR 2	84	84	67	8	4.3	0.5	30	14.3	05	NOV 24+	6.3	98	82	185	125	0	28	10	5	0	26	0
CHARLOTTE	21.	1 .	1 .1	35.6	AUG 1	-10.	DEC 19	1560	89	157	93	MAY 3	43	25	FEB 4	7	83	57	55	3.1	0.	24	2 .1	SW	DEC 31	6.	94	11	15	128	1	44	35	25		55	0
GREENSBORO	21.	9.	15.3	34.7	SEP 4+	-1 .	DEC 1	1902	870	1435	90	JUL 24-25	10	51	MAR 10 +	84	83	59	70	3.2	0.4	24	17.4	NW	APR 3	6.	95	106	154	127	2	4	5	47	1	74	1

See reference notes at end of table

ANNUAL CLIMATOLOGICAL DATA
METRIC UNITS

YEAR 1975

State and Station	Temperature: Averages: Daily maximum	Temperature: Averages: Daily minimum	Temperature: Averages: Annual	Temperature: Extremes: Highest	Temperature: Extremes: Date	Temperature: Extremes: Lowest	Temperature: Extremes: Date	Heating degree days	Cooling degree days	Precipitation: Total	Precipitation: Greatest in 24 hours	Precipitation: Date (s)	Precipitation: Snow †: Total	Precipitation: Snow †: Greatest in 24 hours	Precipitation: Snow †: Date (s)	Relative humidity: 1:00am EST	Relative humidity: 7:00am EST	Relative humidity: 1:00pm EST	Relative humidity: 7:00pm EST	Wind: Average speed	Wind: Resultant speed	Wind: Resultant direction	Wind: Fastest mile (1.6 kilometers): Speed	Wind: Fastest mile: Direction	Wind: Fastest mile: Date	Average sky cover sunrise to sunset	Number of days: Sunrise to sunset: Clear, 0-0.3	Number of days: Sunrise to sunset: Partly cloudy, 0.4-0.7	Number of days: Sunrise to sunset: Cloudy, 0.8-1.0	Number of days: Precipitation 25mm or more	Number of days: Snow † 25.4mm or more	Number of days: Thunderstorms	Number of days: Heavy fog	Number of days: Max temp: 32.2 C and above	Number of days: Max temp: 0 C and below	Number of days: Min temp: 0 C and below	Number of days: Min temp: -17.8 C and below
	C	C	C	C		C		Base 18.3 C	Base 18.3 C	mm	mm		mm	mm		%	%	%	%	m/s	m/s		m/s			Tenths											
NORTH CAROLINA																																					
RALEIGH	21.6	9.1	15.3	35.1	AUG 25	-12.2	DEC 19	1839	877	1199	95	NOV 12-13	81	55	NOV 23	82	85	55	69	3.2	0.4	26	15.6	24	MAR 24	6.1	96	110	159	114	1	51	42	33	0	72	0
WILMINGTON	24.3	13.1	18.7	36.7	SEP 4+	-6.7	DEC 19	1115	1318	1501	84	JUL 11-12	T	T	FEB 4+	84	85	59	75	3.5	0.3	25	16.1	SW	APR 19	6.5	96	77	192	132	0	55	32	53	0	24	0
NORTH DAKOTA																																					
BISMARCK	11.5	-1.4	5.1	41.1	JUL 28	-32.8	DEC 17	5022	241	546	48	JUL 31	1499	241	MAR 26	75	79	59	57	4.3	0.6	34	24.1	NW	JAN 11	6.4	81	109	175	115	13	37	14	10	92	172	48
FARGO	10.2	-.3	5.0	37.8	JUL 29	-28.9	FEB 8	5105	307	648	102	JUN 28-29	1339	264	MAR 23-24	79	81	68	66	5.4	0.4	19	25.0	N	JAN 11	6.5	93	96	176	116	20	32	13	10	120	166	48
WILLISTON	10.7	-2.1	4.3	40.0	JUL 29	-31.8	DEC 17	5240	209	479	49	JUN 8-9	2002	236	MAR 27-28	78	83	62	60	4.6	0.9	31	19.2	W	OCT 4	6.5	85	94	186	111	20	35	7	12	93	188	53
OHIO																																					
AKRON	15.7	5.7	10.7	33.9	AUG 7+	-21.1	FEB 10	3142	431	1041	76	AUG 31	1080	158	MAR 14	79	81	63	69	4.3	1.3	23	15.1	31	APR 3	7.0	69	94	203	149	16	44	23	6	24	124	2
CINCINNATI ABBE OB	18.6	8.7	13.4	35.6	AUG 13+	-13.9	FEB 10	2489	758	992													14.3	SW	APR 18+					121				45	9	86	0
CLEVELAND	14.9	5.7	10.3	35.0	AUG 2	-22.2	FEB 10	3271	400	1037	54	AUG 24-25	1389	206	MAR 14	79	82	64	70	4.6	1.5	24	21.1	SW	APR 19	7.1	63	90	212	170	17	46	15	4	35	127	2
COLUMBUS	16.9	6.7	11.8	35.6	AUG 2+	-17.8	FEB 10	2936	637	992	55	FEB 23	457	64	JAN 19	79	81	61	66	3.9	0.9	23	16.5	SE	JUN 15+	6.8	67	112	186	151	7	50	14	25	28	120	1
CANTON O	16.9	6.6	11.7	33.9	JUL 31+	-19.4	FEB 10	2883	541	1044	55	FEB 22-23	848	107	MAR 14	78	[illegible]	62	67	4.1	1.1	23	18.3	W	APR 3+	6.7	80	98	187	144	12	42	24	17	22	116	2
MANSFIELD	14.7	5.3	10.0	33.9	JUL 31	-21.7	FEB 10	3374	414	923	50	FEB 22-23	1041	142	FEB 8-9	82	87	68	73	4.9	1.7	22	15.6	24	NOV 10+	7.1	65	93	207	155	15	43	38	5	43	133	2
TOLEDO	14.9	4.7	9.6	33.9	AUG 1	-24.4	FEB 10	3499	384	980	74	JUL 3-4	912	145	DEC 25-26	83	85	63	70	4.1	1.2	25	22.4	NW	JUL 3	6.8	68	108	189	149	14	39	15	5	41	149	3
YOUNGSTOWN	14.6	4.9	9.8	33.9	AUG 2+	-22.2	FEB 10	3426	364	1032	49	MAY 31	1168	249	MAR 14	78	81	63	67	4.5	1.1	24	15.6	25	JAN 25	7.5	50	94	221	161	15	43	35	3	44	131	1
OKLAHOMA																																					
OKLAHOMA CITY	20.9	9.8	14.9	35.6	AUG 31+	-13.9	DEC 18	2075	897	895	74	JUL 24	157	71	DEC 24-25	75	81	56	55	5.2	1.2	15	21.9	N	JAN 19	5.0	151	98	115	87	1	61	20	42	5	78	0
TULSA	21.3	9.3	15.3	38.3	AUG 13	-13.3	DEC 18	2101	1072	1136	77	MAY 13	175	64	FEB 23	77	85	59	58	5.1	1.5	18	20.6	S	JAN 5	5.3	133	110	122	102	2	60	10	64	6	81	0
OREGON																																					
ASTORIA	13.9	[illegible]	10.2	30.6	SEP 5	-3.9	JAN 27	2924	13	2052	84	NOV 29-30	69	25	APR 3	75	72	81	82	4.2	1.2	22	17.9	24	JAN 4+	7.6	53	83	229	204	1	6	31	0	0	34	0
BURNS	14.4	.3	7.3	36.7	JUL 27	-18.3	JAN 2	4141	193	288	18	JAN 5	1740	155	JAN 5	59			73				31.7	W	NOV 10	5.8	108	109	148	95	24			14	22	195	3
EUGENE	17.5	6.2	11.9	35.6	SEP 12	-5.0	DEC 12	2462	163	1315	77	DEC 30-1	173	102	JAN 25	78	64	86	92	3.6	0.8	21	17.4	22	MAY 2	7.2	69	72	224	153	2	4	37	9	0	46	0
MEACHAM	-14.7	-15.8	-15.2	10.0	FEB 29	-14.4	JAN 30	1221	0	332	55	JAN 24-25	2281	432	JAN 25-26											1.4	0	3	47	39	22			0	24	54	0
MEDFORD	18.2	4.6	11.4	41.1	JUL 26	-7.2	NOV 18	2814	334	491	38	MAR 17-18	295	147	JAN 9	65	48	69	80	2.2	0.8	31	13.4	16	JAN 31	6.4	102	65	198	117	3	6	48	56	1	88	0
PENDLETON	18.1	6.2	12.2	42.2	JUL 9	-11.1	JAN 11	2648	463	331	29	JAN 25-26	770	180	JAN 9-10	52	45	59	65	4.2	1.8	26	19.7	26	FEB 19	6.3	95	92	178	113	10	8	33	41	15	64	0
PORTLAND	16.4	6.9	11.7	35.0	JUL 26	-3.3	DEC 18+	2559	190	992	51	JAN 12-13	T		FEB 1	71	58	74	82	4.0	0.5	23	16.5	SE	JAN 31	7.2	70	62	233	164	0	5	21	9	0	44	0
SALEM	16.7	5.1	10.9	36.1	JUL 25	-6.7	DEC 21	2779	109	981	55	DEC 3-4	79	41	JAN 25	73	60	80	87	3.2	1.1	21	15.6	19	MAR 17	6.8	85	70	210	162	2	3	20	10	1	66	0
SEXTON SUMMIT R	12.5	3.8	8.2	33.3	SEP 5+	-7.8	JAN 30+	3817	157	983	44	MAR 17-18	4298	353	MAR 21-22	73	61	75	78				19.7	20	MAY 2					144	42			2	35	125	0
PACIFIC AREA																																					
GUAM TAGUAC R	29.7	22.0	25.8	32.8	JUN 7	16.7	MAR 16+	0	2797	2350	84	AUG 11-12	0	0		76	90		76				15.2	SE	NOV 19					263	0			11	0	0	0
JOHNSTON	27.6	23.7	25.7	29.4	SEP 22+	18.3	JAN 29	0	2712	264	24	MAR 17-18	0	0		76	70	75	77	7.6	7.0	8	18.3	E	OCT 27	5.3	126	141	99	130	0	2	0	0	0	0	0
KOROR R	30.9	24.1	27.5	32.8	NOV 13	21.7	DEC 20	0	3398	3917	180	JAN 22-23	0	0		76	88		79	3.4	1.7	9	19.2	NW	JAN 22	8.9	1	61	303	267	0	21	0	60	0	0	0
KWAJALEIN	29.9	24.9	27.4	31.7	APR 24	21.1	NOV 24	0	3377	2579	184	NOV 24	0	0		82	74	77	81				14.8	11	OCT 10	8.5	12	78	275	251	0	12	0	0	0	0	0
MAJURO	29.0	24.3	26.7	30.6	SEP 25+	21.7	OCT 20+	0	3085	3855	109	APR 22-23	0	0		83	77	80	83	4.9	4.6	8	15.2	E	MAR 13	8.7	3	76	286	282	0			0	0	0	0
PAGO PAGO	29.4	23.9	26.7	32.2	JAN 24+	19.4	AUG 4	0	3091	3177	274	APR 29-30	0	0		85	74	81	85	5.6	3.9	8	21.9	N	JAN 28	7.4	15	156	194	264	0	31	0	2	0	0	0
PONAPE R	30.5	23.5	27.0	32.2	NOV 29	20.6	DEC 31+	0	3211	4884	204	DEC 30-31	0	0		78	86		77				11.5	NE	JUL 13+	8.9	4	60	301	309	0	13	0	32	0	0	0

See reference notes at end of table

ANNUAL CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Temperature: Averages: Daily maximum	Temperature: Averages: Daily minimum	Temperature: Averages: Annual	Temperature: Extremes: Highest	Temperature: Extremes: Date	Temperature: Extremes: Lowest	Temperature: Extremes: Date	Heating degree days	Cooling degree days	Precipitation: Total	Precipitation: Greatest in 24 hours	Precipitation: Date(s)	Precipitation: Snow: Total	Precipitation: Snow: Greatest in 24 hours	Precipitation: Snow: Date(s)	Relative humidity: 1:00am EST	Relative humidity: 7:00am EST	Relative humidity: 1:00pm EST	Relative humidity: 7:00pm EST	Wind: Average speed	Wind: Resultant speed	Wind: Resultant direction	Wind: Fastest mile (1.6 kilometers): Speed	Wind: Fastest mile: Direction	Wind: Fastest mile: Date	Average sky cover sunrise to sunset	Number of days: Sunrise to sunset: Clear, 0-0.3	Number of days: Sunrise to sunset: Partly cloudy, 0.4-0.7	Number of days: Sunrise to sunset: Cloudy, 0.8-1.0	Number of days: Precipitation 25mm or more	Number of days: Snow, 25.4mm or more	Number of days: Thunderstorms	Number of days: Heavy fog	Number of days: Max temp: 32.2 C and above	Number of days: Max temp: 0 C and below	Number of days: Min temp: 0 C and below	Number of days: Min temp: -17.8 C and below
[illegible]	C	C	C	C		C		Base 18.3 C	Base 18.3 C	mm	mm		mm	mm		%	%	%	%	m/s	m/s		m/s			Tenths											
[illegible]	[illegible]	[illegible]	27.4	[illegible]	[illegible]	[illegible]	NOV 3		3249	[illegible]	124	MAY 16-17				[illegible]	84		77	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16.7	FEB 4+		2474	888	67	DEC 11				55	64	75	83	5.9	4.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	2952	189	[illegible]	0			75	81		77	3.8	2.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
PENNSYLVANIA																																					
ALLENTOWN	[illegible]	[illegible]	[illegible]	[illegible]	AUG [illegible]	[illegible]	JAN [illegible]	[illegible]	429	1411	64	SEP 23-24	549	187	FEB 12	75	[illegible]	56	63	[illegible]	1.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
ERIE	[illegible]	[illegible]	9.4	32.2	AUG 3	-17.8	FEB 11	3524	[illegible]	1093	44	AUG 25-26	1732	211	DEC 19-20	[illegible]	[illegible]	[illegible]	73	[illegible]	[illegible]	22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
HARRISBURG	[illegible]	[illegible]	[illegible]	[illegible]	AUG [illegible]	-13.9	JAN [illegible]	[illegible]	[illegible]	1377	[illegible]	SEP 25-26	[illegible]	[illegible]	FEB 4-5	[illegible]	[illegible]	[illegible]	67	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	APR [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
PHILADELPHIA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	FEB 10	2430	691	[illegible]	71	[illegible] 13-14	353	117	FEB 4-5	75	[illegible]	56	64	4.2	1.1	29	[illegible]	[illegible]	APR [illegible]	[illegible]	81	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24	[illegible]	[illegible]	[illegible]	[illegible]
PITTSBURGH	[illegible]	[illegible]	[illegible]	[illegible]	AUG 24	-19.4	FEB 10	[illegible]	[illegible]	1179	41	[illegible] 8-9	1031	137	MAR 14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	AUG [illegible]	[illegible]	FEB [illegible]	[illegible]	[illegible]	[illegible]	52	FEB 23-24	747	104	FEB 12															[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	
SCRANTON	[illegible]	[illegible]	[illegible]	34.4	AUG [illegible]	[illegible]	JAN [illegible]	[illegible]	[illegible]	[illegible]	57	SEP 24-25	[illegible]	[illegible]	FEB 12-13	[illegible]	[illegible]	[illegible]	62	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	APR [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
WILLIAMSPORT	[illegible]	[illegible]	[illegible]	[illegible]	AUG [illegible]	[illegible]	FEB [illegible]	[illegible]	[illegible]	[illegible]	117	FEB 25-26	491	[illegible]	JAN 12-13	[illegible]	[illegible]	[illegible]	64	[illegible]	[illegible]	29	17.4	[illegible]	APR [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2
RHODE ISLAND																																					
BLOCK ISLAND											[illegible]	[illegible] 11-13	569	[illegible]	FEB 11																						
PROVIDENCE	[illegible]	[illegible]	[illegible]	[illegible]	AUG [illegible]	[illegible]	DEC [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible] 12-13	795	[illegible]	FEB 12-13	[illegible]	[illegible]	[illegible]	67	4.3	[illegible]	[illegible]	[illegible]	[illegible]	FEB [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3
SOUTH CAROLINA																																					
CHARLESTON	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	DEC [illegible]	996	[illegible]	[illegible]	87	AUG 7-8				84	84	59	[illegible]	3.8	[illegible]	24	[illegible]	[illegible]	APR [illegible]	[illegible]	[illegible]	78	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
COLUMBIA	[illegible]	[illegible]	[illegible]	[illegible]	AUG [illegible]	[illegible]	DEC [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	JUL 13-14	[illegible]	T	FEB 3	[illegible]	[illegible]	[illegible]	[illegible]	2.7	[illegible]	27	[illegible]	[illegible]	MAY [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
GREENVILLE-SPARTANBURG	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1736	[illegible]	OCT 27	[illegible]	[illegible]	FEB 3	[illegible]	[illegible]	[illegible]	69	3.8	[illegible]	[illegible]	[illegible]	[illegible]	APR [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SOUTH DAKOTA																																					
ABERDEEN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	DEC 16	[illegible]	487	[illegible]	61	[illegible]	1427	[illegible]	MAR 23-24	[illegible]	[illegible]	[illegible]	61	5.3	[illegible]	[illegible]	[illegible]	[illegible]	MAY 6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
HURON	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	FEB [illegible]	[illegible]	[illegible]	467	[illegible]	[illegible] 8-9	1847	447	MAR 23-24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
RAPID CITY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	FEB 5	[illegible]	[illegible]	443	43	[illegible]	[illegible]	[illegible]	DEC 31	[illegible]	[illegible]	[illegible]	[illegible]	5.5	[illegible]	34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SIOUX FALLS	[illegible]	[illegible]	7.4	34.4	[illegible]	-18.3	FEB 9	4419	[illegible]	663	117	AUG 1	1397	[illegible]	NOV 19-20	[illegible]	[illegible]	[illegible]	63	[illegible]	[illegible]	22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TENNESSEE																																					
BRISTOL	[illegible]	[illegible]	[illegible]	[illegible]	SEP [illegible]	[illegible]	DEC [illegible]	[illegible]	[illegible]	[illegible]	73	MAR 29-30	[illegible]	61	MAR [illegible]	[illegible]	[illegible]	63	68	2.6	[illegible]	27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
CHATTANOOGA	[illegible]	[illegible]	[illegible]	[illegible]	SEP [illegible]	[illegible]	DEC 17	[illegible]	[illegible]	[illegible]	96	SEP 22-23	T	T	DEC 21 +	85	89	63	67	2.7	[illegible]	26	[illegible]	[illegible]	MAR [illegible]	[illegible]	5	116	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
KNOXVILLE	[illegible]	[illegible]	[illegible]	[illegible]	SEP [illegible]	[illegible]	DEC [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	MAR 29-30	97	54	MAR [illegible]	[illegible]	[illegible]	[illegible]	67	[illegible]	[illegible]	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MEMPHIS	[illegible]	[illegible]	[illegible]	[illegible]	SEP [illegible]	[illegible]	JAN [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	MAR 11-12	[illegible]	[illegible]	JAN [illegible]	74	[illegible]	[illegible]	61	4.1	[illegible]	[illegible]	[illegible]	[illegible]	JAN [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
NASHVILLE	[illegible]	[illegible]	[illegible]	34.4	SEP [illegible]	[illegible]	DEC [illegible]	[illegible]	[illegible]	1539	[illegible]	MAR [illegible]	[illegible]	[illegible]	[illegible]	81	[illegible]	[illegible]	64	3.8	[illegible]	21	[illegible]	[illegible]	JAN [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
OAK RIDGE	[illegible]	[illegible]	[illegible]	[illegible]	SEP [illegible]	[illegible]	DEC [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	MAR 11-13	[illegible]	[illegible]	MAR 10								[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]
TEXAS																																					
ABILENE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	JAN 10+	[illegible]	[illegible]	564	[illegible]	NOV 2	259	[illegible]	JAN 12	[illegible]	[illegible]	52	[illegible]	[illegible]	2.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
AMARILLO	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	JAN [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	AUG 14-15	[illegible]	[illegible]	FEB [illegible]	[illegible]	[illegible]	44	[illegible]	[illegible]	[illegible]	21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
AUSTIN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	JAN [illegible]	[illegible]	[illegible]	935	[illegible]	MAY 23-24	T	T	FEB [illegible] +	[illegible]	[illegible]	[illegible]	[illegible]	4.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BROWNSVILLE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	JAN [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	AUG 31	[illegible]			86	[illegible]	[illegible]	[illegible]	5.1	[illegible]	14	[illegible]	[illegible]	MAY 20+	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

See Reference Notes at end of table

ANNUAL CLIMATOLOGICAL DATA
METRIC UNITS

State and Station	Temperature: Averages: Daily maximum	Temperature: Averages: Daily minimum	Temperature: Averages: Annual	Temperature: Extremes: Highest	Temperature: Extremes: Date	Temperature: Extremes: Lowest	Temperature: Extremes: Date	Heating degree days	Cooling degree days	Precipitation: Total	Precipitation: Greatest in 24 hours	Precipitation: Date (s)	Snow†: Total	Snow†: Greatest in 24 hours	Snow†: Date (s)	Relative humidity: 1 00am EST	Relative humidity: 7 00am EST	Relative humidity: 1 00pm EST	Relative humidity: 7 00pm EST	Wind: Average speed	Wind: Resultant speed	Wind: Resultant direction	Wind: Fastest mile (1 6 kilometers): Speed	Wind: Fastest mile: Direction	Wind: Fastest mile: Date	Average sky cover sunrise to sunset	Number of days: Sunrise to sunset: Clear, 0-0 3	Number of days: Sunrise to sunset: Partly cloudy, 0 4-0 7	Number of days: Sunrise to sunset: Cloudy, 0 8-1 0	Number of days: Precipitation 25mm or more	Number of days: Snow † 25 4mm or more	Number of days: Thunderstorms	Number of days: Heavy fog	Number of days: Max temp: 32 2 C and above	Number of days: Max temp: 0 C and below	Number of days: Min temp: 0 C and below	Number of days: Min temp: -17 8 C and below
TEXAS	C	C	C	C		C		Base 18 3 C	Base 18 3 C	mm	mm		mm	mm		%	%	%	%	m s	m s		m s			Tenths											
CORPUS CHRISTI	28.1	17.1	22.6	37.8	JUL 19	-2.8	JAN 13	460	2076	[illegible]	76	SEP 13-14	0	0		87	[illegible]	63	68	5.4	2.7	12	21.9	SE	MAY 24	5.8	104	118	143	81	0	32	28	104	0	4	0
DALLAS FT WORTH	24.6	12.8	18.7	37.8	SEP 19+	-8.3	JAN 13	1260	1450	739	96	JUL 24-25	104	94	FEB 23	[illegible]	79	55	51	4.3	1.1	18	17.4	26	FEB 4	5.1	132	120	113	75	1	45	11	98	0	33	0
DEL RIO	27.2	14.0	20.6	39.4	JUN 15	-7.2	JAN 13	740	1676	472	161	JUL 17-18	0	0		66	81	54	44	4.5	2.3	11	14.8	23	MAY 19	5.1	130	115	120	66	0	32	12	119	0	17	0
EL PASO	25.8	8.1	16.9	40.6	JUN 15+	-9.4	JAN 13	1529	1083	158	51	SEP 11-12	112	51	MAR 29	32	25	43	56	3.7	0.8	25	21.5	SW	JAN 10	3.3	212	92	61	42	2	29	1	126	0	72	0
GALVESTON	23.9	18.6	21.2	33.9	JUL 28	-1.[illegible]	JAN 13	553	1674	1233	196	MAY 29-30	[illegible]	0		77	81	70	72				20.1	NW	FEB 23					94	0			17	0	2	0
HOUSTON INTERCON	26.3	13.8	20.1	35.6	SEP 3+	-6.1	JAN 13	794	1470	1295	95	OCT 25-26	T	T	JAN 12	89	91	61	68	3.8	1.1	11	13.4	14	MAY 9+	6.1	95	102	168	112	0	74	52	87	0	27	0
LUBBOCK	22.8	7.4	15.1	38.9	JUN 17+	[illegible]	JAN 12	1917	815	449	37	JUL 20-21	244	84	DEC 23-24	64	76	45	39	5.1	1.3	20	23.7	16	MAY 12	4.0	186	97	82	71	4	47	16	52	2	98	0
MIDLAND	24.8	9.7	17.3	40.6	JUN 15	[illegible]	DEC 18	1403	1071	590	41	JUL 19-20	84	41	FEB 22	64	75	43	37	5.2	1.3	18	18.3	27	MAR 17	3.9	196	79	90	57	2	43	16	91	0	59	0
PORT ARTHUR	25.4	14.6	20.0	35.0	SEP 2+	-5.1	JAN 13	810	1478	1311	98	MAY 28-29	0	0		92	93	67	75				20.1	NW	JAN 10	6.3	88	92	185	112	0	77	46	60	0	20	0
SAN ANGELO	24.3	11.1	17.7	37.8	JUN 14	-9.4	JAN 13	1319	1143	548	65	MAY 10	38	38	JAN 12	69	80	51	46	5.2	2.0	19	16.5	18	MAY 19+	4.5	162	99	104	58	1	31	8	71	1	49	0
SAN ANTONIO	25.9	13.8	19.9	35.6	JUL 29+	-9.4	JAN 13	849	1473	652	58	MAY 23-24	T	T	JAN 12	76	83	56	52	4.4	1.3	12	20.6	NE	MAY 8	5.6	110	120	135	74	0	35	25	67	0	30	0
VICTORIA	27.3	16.0	21.7	35.1	AUG 26	-6.1	JAN 13	579	1862	939	155	DEC 24	T	T	JAN 12	86	90	61	66	4.5	1.3	12	28.2	NW	MAY 8	6.3	79	110	176	97	0	58	51	91	0	9	0
WACO	24.9	12.7	18.8	38.3	SEP 3+	-7.8	JAN 13	1215	1466	976	111	MAY 23	46	25	JAN 12	77	85	59	57	4.8	1.6	16	17.0	31	APR 29	5.5	120	101	144	86	1	50	16	96	0	41	0
WICHITA FALLS	23.9	11.0	[illegible]	38.9	JUL 9+	[illegible]	DEC 18	1635	1217	838	145	MAY 22-23	124	58	DEC 24-25	75	83	52	52	5.1	1.3	16	20.1	35	JAN 19	4.6	166	94	105	76	2	53	11	103	3	58	0
UTAH																																					
MILFORD	17.1	-1.0	8.1	36.7	JUL 8+	-25.0	JAN 3	3958	264	232	25	MAY 19-20	1547	218	MAY 19-20								23.2	SW	MAY 4	4.7	158	100	107	76	22			36	25	213	13
SALT LAKE CITY	16.6	4.2	10.4	37.8	AUG 6	-17.2	DEC 31	3329	500	455	28	APR 25-26	2380	224	APR 25-26	49	45	62	68	4.2	1.3	17	17.4	NW	JUN 2	5.9	113	99	153	105	26	36	10	45	25	122	0
WENDOVER	16.1	4.7	10.4	37.8	AUG 6	-14.4	JAN 1	3450	618	134	20	OCT 26-27	264	85	NOV 27-28	44	37	51	59											66	4			40	26	140	0
VERMONT																																					
BURLINGTON	13.0	2.6	7.8	37.2	AUG 2	-26.7	DEC 20	4159	388	826	35	JUL 14-15	2129	225	DEC 25-26	77	79	61	65	3.9	0.8	20	18.8	S	APR 19	7.3	61	89	215	159	27	21	13	15	70	155	22
VIRGINIA																																					
LYNCHBURG	19.2	7.8	13.5	33.9	AUG 26+	-11.7	DEC 19	2307	606	1412	63	MAR 18-19	376	122	JAN 20		81	56	68				17.0	W	APR 3	5.8	119	98	148	138	4			15	5	89	0
NORFOLK	20.9	11.0	16.0	35.6	AUG 26+	-7.2	DEC 20+	1759	969	1283	92	JUL 16	28	20	MAR 2	79	79	59	70	4.6	0.4	31	19.2	32	MAR 24	6.0	102	100	163	124	0	43	22	33	1	49	0
RICHMOND	20.9	8.5	14.7	37.2	AUG 26	-10.6	FEB 10	2051	796	1557	80	JUL 11-12	152	69	JAN 20	84	84	55	70	2.8	0.4	28	17.9	NW	JAN 1	6.5	82	107	176	132	2	48	34	30	2	87	0
ROANOKE	19.4	8.1	13.8	33.9	AUG 4+	-12.2	DEC 19	2252	640	1280	70	SEP 18 +	437	160	FEB 4	75	76	55	62	3.6	0.8	29	19.7	30	AUG 24+	6.1	103	103	159	133	3	41	29	18	4	88	0
WASHINGTON																																					
OLYMPIA	14.8	3.7	9.2	32.2	JUL 23	-10.0	NOV 29	3292	33	1455	57	DEC 3-4	437	107	NOV 29-30	75	63		90				16.1	29	FEB 19	7.5	53	79	233	171	6	3	64	1	1	100	0
QUILLAYUTE	13.2	4.6	8.9	33.3	JUL 4	-6.1	DEC 12+	3391	3	3344	141	OCT 16-17	498	69	NOV 29	80	74	88	91	3.0	0.7	20	14.8	SE	NOV 14	7.8	47	57	261	231	7	9	63	1	0	74	0
SEATTLE	14.8	7.4	11.1	31.1	JUN 1	-4.4	NOV 29	2645	67	1143	45	DEC 25-26	64	25	JAN 11								22.4	SE	DEC 26					169	1			0	0	25	0
SEATTLE-TACOMA	14.8	6.6	10.7	32.2	JUL 5	-5.6	NOV 29	2835	109	1130	46	DEC 1-2	145	66	DEC 12	71	62	74	80	4.0	1.0	19	18.3	SW	JAN 8	7.4	61	68	236	164	1	9	29	1	1	48	0
SPOKANE	12.8	2.1	7.4	38.9	JUL 10	-23.3	JAN 11	4090	189	540	22	JUL 12-13	2395	226	FEB 6-7	65	54	68	78	4.4	1.7	19	21.5	SW	DEC 2	6.7	81	87	197	132	32	13	40	11	39	159	4
STAMPEDE PASS R	6.3	[illegible]	3.2	30.6	JUL 9+	-15.6	JAN 11	5468	20	3152	171	DEC 1	1783	589	NOV 30	80	76		88											228	89			0	104	190	0
WALLA WALLA C	17.2	6.7	11.9	43.3	JUL 9	-10.0	JAN 31	2703	444	398	27	JAN 25-26	704	135	JAN 25-26								16.1	SW	DEC 29+	6.5	89	83	193	117	12			30	17	75	0

See reference notes at end of table

ANNUAL CLIMATOLOGICAL DATA

METRIC UNITS

YEAR 1975

State and Station	Temperature							Heating degree days	Cooling degree days	Precipitation						Relative humidity				Wind						Average sky cover sunrise to sunset	Number of days										
	Averages			Extremes									Snow †										Fastest mile (1.6 kilometers)				Sunrise to sunset							Max temp		Min temp	
	Daily maximum	Daily minimum	Annual	Highest	Date	Lowest	Date			Total	Greatest in 24 hours	Date (s)	Total	Greatest in 24 hours	Date (s)	1:00 am EST	7:00 am EST	1:00 pm EST	7:00 pm EST	Average speed	Resultant speed	Resultant direction	Speed	Direction	Date		Clear, 0-0.3	Partly cloudy, 0.4-0.7	Cloudy, 0.8-1.0	Precipitation .25mm or more	Snow † 25.4mm or more	Thunderstorms	Heavy fog	32.2 C and above	0 C and below	0 C and below	-17.8 C and below
	C	C	C	C		C		Base 18.3°C	Base 18.3°C	mm	mm		mm	mm		%	%	%	%	m/s	m/s		m/s			Tenths											
WASHINGTON																																					
YAKIMA	17.3	[illegible]	9.9	40.7	JUL 9+	-13.9	JAN 10	3282	269	224	37	AUG 17-18	930	127	JAN 3-4	53	44	65	74	3.4	1.7	29	14.9	29	MAY 23	5.9	112	94	159	81	12	10	14	26	17	155	0
WEST INDIES																																					
SAN JUAN P.R.	[illegible]	21.8	24.8	35.6	[illegible] 8	18.7	JAN 8	0	3132	1372	87	SEP 15-16	0	0		73	[illegible]	[illegible]	69	4.2	3.4	9	19.7	[illegible]	JUL 19	5.6	64	128	73	[illegible]	0	46	0	[illegible]	0	0	0
WEST VIRGINIA																																					
BECKLEY	15.4	[illegible]	11.2	31.1	AUG [illegible]	-16.1	DEC 19	2856	304	145	49	SEP 22-23	1166	141	MAR 10	83	86	64	72	4.1	1.4	21	17.[illegible]	13	MAR 14	7.2	51	111	[illegible]	177	13	58	60	[illegible]	2	[illegible]	0
CHARLESTON	[illegible]	[illegible]	12.9	35.5	AUG 1	-16.7	FEB [illegible]	2504	597	1295	49	AUG 14	831	320	JAN 12-13	[illegible]	84	57	54	2.5	0.8	25	[illegible]	24	JUN 5+	[illegible]	67	105	[illegible]	[illegible]	[illegible]	[illegible]	122	[illegible]	[illegible]	[illegible]	0
ELKINS	[illegible]	[illegible]	[illegible]	31.7	AUG 2+	-23.[illegible]	FEB [illegible]	3171	221	1176	44	JUN 31-1	1321	114	JAN 25-26		87	62	73							7.5	36	117	[illegible]	182	16			[illegible]	19	137	4
HUNTINGTON	[illegible]	[illegible]	13.7	35.6	SEP 5	-13.[illegible]	FEB [illegible]	2361	[illegible]	1257	[illegible]	APR 24-25	630	267	JAN 12-13	79	83	62	63	2.9	0.7	26	15.6	27	JAN 25	7.6	37	95	233	152	4	55	83	25	[illegible]	81	0
PARKERSBURG	[illegible]	7.5	12.7	[illegible]	AUG 2+	-14.4	FEB [illegible]	2585	584	1155	52	APR 23-24	282	85	JAN 12-13								19.2	[illegible]	APR 3					[illegible]	3			[illegible]	12	96	0
WISCONSIN																																					
GREEN BAY	[illegible]	[illegible]	[illegible]	33.9	AUG [illegible]	-26.7	FEB [illegible]	4423	286	901	117	AUG [illegible]	1402	168	DEC 19-20	79	81	63	67	4.5	[illegible]	26	25.4	SW	JAN 11	6.8	69	[illegible]	195	125	9	33	26	4	56	156	20
LA CROSSE	[illegible]	[illegible]	7.9	35.6	[illegible]	[illegible]	FEB 9	420[illegible]	452	672			1615			82	86	64	65	2.9	[illegible]	21								124	17	45	22	27	[illegible]	[illegible]	22
MADISON	[illegible]	[illegible]	8.2	33.9	AUG [illegible]	-25.6	FEB 7	[illegible]	412	877	99	JUL 3	1278	142	FEB 23-24	81	84	[illegible]	66	[illegible]	[illegible]	24	19.7	SW	JAN 11	6.7	[illegible]	92	194	[illegible]	17	49	24	23	64	[illegible]	[illegible]
MILWAUKEE	[illegible]	[illegible]	8.3	[illegible]	MAY [illegible]	-22.8	FEB [illegible]	[illegible]	332	740	[illegible]	APR 27-28	1570	[illegible]	APR 2	81	83	65	71	5.1	1.2	26	24.1	SW	JAN [illegible]	6.8	75	95	195	137	15	[illegible]	29	3	56	[illegible]	8
WYOMING																																					
CASPER	[illegible]	-.7	6.5	[illegible]	JUL [illegible]	-26.7	JAN [illegible]	4467	219	[illegible]	41	MAY [illegible]	[illegible]	[illegible]	MAY 19-20	48	44	63	71	5.9	3.3	24	[illegible]	23	MAY 24	5.8	[illegible]	113	144	110	[illegible]	34	13	19	65	[illegible]	28
CHEYENNE	[illegible]	-.3	5.7	[illegible]	AUG [illegible]	-22.2	APR 1+	4275	[illegible]	272	31	MAY 26-27	1257	224	MAR 26-27	38	39	57	[illegible]	5.9	3.0	29	29.5	NW	JAN 18	5.6	[illegible]	130	129	79	15	34	27	2	[illegible]	[illegible]	16
LANDER	13.3	-1.3	[illegible]	34.4	AUG 5	-27.8	JAN 12+	4605	185	356	41	MAY 20-21	[illegible]	[illegible]	MAY 20-21	47	[illegible]	[illegible]	63	3.1	0.8	23	21.0	SW	SEP 1	5.6	[illegible]	127	129	82	[illegible]	[illegible]	6	9	59	[illegible]	22
SHERIDAN	13.4	-1.6	5.9	37.8	JUL [illegible]	[illegible]	FEB 9	[illegible]	183	439	64	JUN 20-21	2576	198	FEB 7-8	53	[illegible]	[illegible]	74	3.5	1.7	31	21.0	NW	JAN 24	6.2	89	[illegible]	[illegible]	[illegible]	45	16	9	14	[illegible]	142	14

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

NORMALS, MEANS AND EXTREMES

State and Station	Elevation Ground (Meters)	Temperature (°C)								Normal Heating Degree Days (1941-1970)		Precipitation (Millimeters)									Relative Humidity (Percent)						Wind Speed (m.p.s.)			Sunshine (% of Possible)		Annual Mean Number of Days									
		Normal (1941-1970)					Extremes					Normal (1941-1970)			Extremes			Snow @			January			July			Mean Speed		Fastest Mile (1.6 Kilometers)	January	July	Sunrise to Sunset			Precipitation 25mm or More	Snow, Sleet, Hail 25.4mm or More	Thunderstorms	Heavy Fog	Temperature		
		January		July		Annual	Length (Yrs)	Record Highest	Record Lowest	January	Seasonal	Wettest Month	Driest Month	Annual	Wettest Month	Driest Month	Maximum In 24 Hours	Mean Total		Extreme	7 00 a.m. EST	1.00 p.m. EST	7 00 p.m. EST	7 00 a.m. EST	1.00 p.m. EST	7 00 p.m. EST	January	July				Clear	Partly Cloudy	Cloudy					Max	Min	
		Daily Maximum	Daily Minimum	Daily Maximum	Daily Minimum													January	Seasonal	Maximum In 24 Hours																			≥ 32.2 °C	≤ 0 °C	≤ -17.8 °C
ALABAMA							92	44.4	-31.1							0	516																								
BIRMINGHAM	189	12.4	1.2	32.4	20.8	16.9	12	38.9	-20.0	363	1580	157	66	1352	449	T	179	13	30	213	81	63	67	89	63	67	3.8	2.5	29.1	41	60	99	112	154	118	*	58	9	40	60	*
HUNTSVILLE	190	10.3	-0.4	32.3	20.4	16.0	8	38.3	-16.1	415	1834	147	65	1325	375	20	196	36	76	91	84	69	72	89	62	67	4.1	2.7	20.6			105	100	160	124	1	59	22	38	63	[illegible]
MOBILE	64	16.2	5.2	32.5	22.6	19.7	14	38.9	-13.3	251	935	225	65	1701	490	1	339	T	10	91	82	64	72	89	61	72	4.8	3.2	28.2			100	119	146	124	*	81	39	81	19	0
MONTGOMERY	59	14.4	2.8	32.5	21.9	18.2	12	38.9	-15.0	309	1260	153	57	1266	542	1	224	T	5	79	83	63	66	91	62	68	3.5	2.6	32.2	47	63	107	109	149	109	*	62	23	68	39	0
ALASKA							92	37.8	-62.2							0	359																						B		
ANCHORAGE PK 2/ 1966	26	-6.4	-15.4	18.1	9.7	1.8	44	30.0	-38.9	906	6035	65	11	374	150	0	52	272	1569	450															113	21			14	201	41
ANCHORAGE	35	-6.7	-15.8	18.7	10.1	1.7	22	29.4	-36.7	916	6061	60	14	374	138	T	52	279	1773	450	70	71	70	81	74	62	2.6	3.1	27.3	44	44	66	65	234	113	21	1	27	11	192	43
ANNETTE	34	3.3	-1.7	17.8	10.9	7.6	15	32.2	-17.2	543	3918	453	128	2903	886	14	193	406	1509	361	77	77	73	87	77	68	5.4	3.6	26.8			42	60	263	224	18	2	16	23	85	0
BARROW X	9	-22.2	-29.6	6.8	0.6	-12.6	55	25.6	-48.9	1373	11257	26	4	124	71	0	25	58	734	381	66	67	66	94	91	87	5.0	5.1	25.9			60	53	185	75	8	*	65	*	324	170
BARTER ISLAND V	12	-22.5	-29.9	7.5	1.4	-12.2	26	25.6	-50.6	1381	11107	33	6	179	125	T	57	140	1125	432	69	69	68	93	89	86	6.6	4.7	36.2			51	69	192	91	13	*	75	*	313	169
BETHEL	38	-10.9	-19.0	16.6	8.6	-1.8	17	30.0	-43.3	1032	7334	101	11	402	148	1	51	137	1245	208	76	75	75	92	86	60	6.2	5.1	27.7			65	61	239	135	17	2	58	12	227	[illegible]
BETTLES	196	-20.7	-29.5	20.1	8.6	-5.9	25	33.3	-56.7	1347	8846	70	16	360	150	0	49	297	1920	551	67	64	66	87	68	52	2.6	3.0	17.9			86	93	186	103	24	5	7	35	248	140
BIG DELTA	386	-16.4	-24.6	20.4	10.0	-2.5	34	33.3	-52.8	1204	7609	63	7	291	157	T	54	152	1041	254	70	71	72	79	74	60	4.8	2.7	33.1			60	91	214	[illegible]	15	3	10	35	225	99
COLD BAY	29	0.3	-4.6	12.4	7.6	3.3	31	25.6	-25.0	634	5480	109	39	844	253	1	124	221	1354	290	84	85	82	91	90	81	8.0	7.0	32.6			10	47	308	211	18	*	26	*	163	2
FAIRBANKS	133	-19.0	-29.8	22.1	9.8	-3.5	12	35.6	-51.7	1324	7969	56	8	285	157	T	87	272	1775	511	67	67	68	78	68	50	1.3	2.9	17.9			68	83	214	102	22	5	21	53	224	123
GULKANA	479	-16.7	-26.9	20.1	7.6	-2.9	31	32.8	-53.9	1245	7743	47	6	282	110	0	52	163	1176	269	67	68	64	84	70	48	2.3	3.7	23.2			68	88	209	68	16	5	18	30	238	108
HOMER	19	-2.2	-9.6	15.6	6.9	2.5	32	26.7	-29.4	751	5757	86	23	586	218	0	77	272	1506	622	69	74	70	92	79	70	3.4	2.6	17.9			72	70	223	141	24	*	9	2	195	13
ILIAMNA 1969	57						27	32.8	-43.9						280	T	67	277	1636	399	73	74	72	87	79	64	6.6	3.7				81	68	216	137	22	3	12	10	196	45
JUNEAU	4	-1.6	-7.9	17.6	8.7	4.6	32	32.2	-30.0	715	5003	199	74	1389	387	7	118	660	2771	787	79	79	76	90	81	70	3.8	3.4	25.9	33	30	44	39	282	220	30	*	22	19	152	11
KING SALMON	15	-6.1	-14.6	16.9	8.0	0.7	12	29.4	-43.3	889	6434	88	23	502	185	0	51	183	1163	241	71	71	69	85	80	62	4.7	4.6	31.7			57	66	242	150	16	1	34	11	205	58
KODIAK	4	1.4	-3.2	15.1	9.5	4.8	27	30.0	-24.4	596	4922	160	90	1440	332	5	113	478	2413	452	79	78	76	88	81	78	5.5	3.0	24.6			63	78	224	186	27	*	15	6	146	3
KOTZEBUE	3	-16.0	-23.7	14.8	8.4	-6.2	33	29.4	-46.7	1183	8910	57	7	223	132	T	45	152	1204	254	71	71	71	87	84	77	6.5	5.8	41.6			91	74	200	108	16	*	19	4	252	120
MC GRATH	105	-17.5	-27.9	19.8	9.3	-3.8	33	32.2	-55.0	1273	8048	83	17	425	159	T	65	361	2281	386	69	69	69	85	74	56	1.3	2.6	33.5			68	66	231	133	28	7	14	30	231	115
NOME	4	-10.3	-18.7	13.2	6.9	-3.6	9	30.0	-43.3	1016	7958	91	18	418	199	T	60	239	1384	229	72	71	71	82	76	72	5.2	4.5	24.6	40	34	89	66	210	125	17	*	24	6	250	89
ST. PAUL ISLAND	7	-1.1	-5.6	9.7	5.6	1.4	58	17.8	-32.2	670	6177	87	28	623	237	2	49	323	1506	351	86	87	85	96	96	91	9.3	5.8	36.7			21	64	280	205	19	*	56	0	192	6
SHEMYA 1972	37	1.3	-1.7	9.3	6.3	3.5	27	17.2	-13.9	575	5408	84	38	716	221	4	134	290	1448	389	82	82	82	95	96	92	9.6	6.1	40.2			5	64	298	212	19	*	82	0	129	0
SUMMIT	731	-13.4	-20.4	15.7	6.6	-3.6	35	31.7	-42.8	1092	7981	84	17	510	171	T	71	361	3053	711	68	68	69	89	78	62	6.8	3.5	21.5			68	70	227	138	41	5	12	9	251	86
TALKEETNA	105	-7.2	-18.0	19.7	9.0	0.4	36	32.8	-44.4	958	6504	124	28	727	303	T	79	462	2067	914	68	69	62	89	76	60	2.8	1.7	17.0			78	76	211	131	34	4	4	31	228	68
UNALAKLEET	5	-12.1	-19.7	15.8	8.6	-3.1	27	30.6	-45.6	1061	7792	99	10	360	205	T	39	135	1029	356	60	65	64	87	80	73	8.0	4.8	25.0			86	69	210	105	13	2	15	6	234	83
VALDEZ	7	-3.9	-11.9	16.2	7.5	1.2	4	26.7	-28.9	813	5858	197	69	1506	328	T		1267	7018										18.3						165	48			6	183	7
YAKUTAT	9	-0.4	-8.3	15.2	8.6	3.8	11	28.3	-31.1	703	5296	496	144	824	1115	13	198	1085	5799	823	78	78	75	97	86	80	3.5	3.1	33.5			41	46	278	230	51	2	31	4	189	19
ARIZONA							81	52.8	-40.0							0	290																								
FLAGSTAFF	2135	5.2	-9.8	27.1	10.2	7.4	26	36.1	-30.0	639	4067	67	14	490	250	0	87	406	2266	693	73	52	49	70	34	40	3.5	2.8	17.9	70	76	168	97	100	75	21	51	10	3	214	10
PHOENIX	339	18.2	3.1	40.4	25.3	21.3	15	46.7	-7.2	238	862	31	3	179	141	0	78	T	T	15	66	44	30	46	28	20	2.3	3.2	33.5	78	85	213	82	70	34	0	23	2	165	13	0
TUCSON	788	17.5	3.4	36.8	23.4	19.9	35	43.9	-8.9	246	973	60	4	281	201	0	100	8	33	173	62	39	32	58	33	28	3.5	3.7	31.7	81	78	198	89	78	50	1	40	1	139	21	0
WINSLOW	1492	7.6	-6.9	34.2	17.2	12.9	16	42.8	-20.1	558	2629	38	7	186	142	0	56	64	282	432	78	62	51	57	29	26	3.2	4.0	28.2			179	95	91	53	4	36	5	72	141	5
YUMA	59	19.7	6.3	41.1	27.4	23.2	11	46.7	-4.4	171	558	11	0	68	68	0	61	0	T	T	55	38	27	50	33	23	3.3	4.2	26.8	85	90	246	70	49	15	0	7	1	167	2	0
ARKANSAS							85	48.9	-33.9							0	305																								
FORT SMITH	136	9.9	-2.2	34.3	21.4	16.3	11	43.3	-17.8	648	1853	139	60	1074	356	T	181	43	137	180	80	60	62	87	54	51	3.6	2.8	25.9	46	71	123	96	146	96	3	58	15	67	79	*
LITTLE ROCK	78	10.1	-1.7	33.7	21.2	16.1	16	42.2	-20.0	439	1863	135	76	1232	367	T	202	56	135	287	82	62	65	88	58	61	4.0	3.1	29.1	46	71	121	97	147	104	2	58	16	71	63	*
TEXARKANA 1968	119	12.7	1.8	34.1	22.2	17.9	3	38.3	-12.8	348	1407	135	69	1249	423	T	166	38	69	191	79	62	62	90	60	62	3.7	2.8				126	95	144	98	1	62	18	64	44	0
CALIFORNIA							91	56.7	-42.8							0	663																								
BAKERSFIELD	145	14.2	3.0	37.3	20.4	18.3	12	45.0	-4.4	302	1214	26	T	145	117	0	43	T	T	38	83	75	61	47	32	20	2.3	3.2	19.7			200	81	84	36	*	3	22	113	12	0
BISHOP	1252	12.0	-6.4	36.4	13.2	13.3	28	42.8	-21.7	481	2396	30	2	145	227	0	92	102	208	457		48	35		19	14						204	87	74	29	2	13	*	96	143	*
BLUE CANYON M	1609	6.1	-1.2	25.3	14.8	10.1	32	35.0	-16.1	493	3169	347	3	1717	1146	0	237	1219	6187	978		60			33		4.8	3.2	34.0			175	64	126	90	41	12	68	1	102	0
EUREKA U	13	11.9	5.1	15.8	11.2	11.2	65	29.4	-6.1	305	2599	188	4	1010	421	0	148	5	5	76							3.1	3.0	25.0	42	52	78	99	188	118	*	5	49	0	5	0
FRESNO	100	12.7	2.1	36.8	17.2	16.8	12	43.9	-6.1	339	1472	47	0	260	217	0	66	T	T	38	92	85	68	64	39	23	2.4	3.2	19.2	50	96	202	70	93	44	*	6	41	110	28	0
LONG BEACH	8	18.4	6.2	28.2	16.4	17.4	16	43.9	-3.9	188	892	57	0	260	285	0	174	T	T	T	72	57	51	80	61	52	2.5	3.0	19.7			152	127	86	30	0	4	54	21	1	0
LOS ANGELES	30	17.5	7.4	23.8	16.7	16.5	17	43.3	-1.1	184	1010	64	T	294	281	0	157	T	T	T	68	54	59	86	68	68	3.0	3.4	27.7			143	116	106	35	0	3	44	5	*	0
LOS ANGELES U	82	19.2	8.2	28.3	17.5	18.2	35	43.3	-2.2	149	692	76	0	357	379	0	155	T	T	8	62	51	50	84	54	53	3.0	2.4	21.9	69	82	185	106	74	34	0	6	17	20	*	0
MT SHASTA R	1080	5.4	-3.7	29.4	10.3	9.8	33	39.4	-20.6	541	3272	169	8	952	447	0	177	874	2880	950	80	75	69	69	40	29						163	85	117	91	21	13	7	21	135	*
OAKLAND	2	12.5	5.9	20.9	13.6	14.1	12	37.2	-3.3	282	1616	102	T	475	287	0	138	T	T	25	83	77	72	87	76	68	3.0	4.2	21.9			148	113	104	64	*	2	16	2	1	0
RED BLUFF	104	12.0	2.6	36.7	19.2	17.1	31	48.3	-6.7	341	1493	114	1	560	289	0	102	36	61	251	81	72	59	50	30	18	4.1	3.6	30.4	53	96	178	68	119	71	1	10	18	98	22	0
SACRAMENTO	5	11.7	2.8	33.8	14.2	15.7	25	46.1	-6.7	343	1579	95	T	437	321	0	142	T	T	T	90	86	71	76	48	28	3.6	4.1	31.3	45	97	190	73	102	58	0	5	35	77	17	0
SANDBERG R	1377	8.0	1.1	29.5	17.2	12.8	42	38.9	-16.1	427	2459	62	1	304	289	0	174	218	711	978	51	56	56	42	26	28	7.0	5.7	34.4			208	79	78	40	7	4	79	20	59	0

NORMALS, MEANS AND EXTREMES

State and Station	Elevation Ground (Meters)	Temperature (C)								Normal Heating Degree Days (1941-1970)		Precipitation (Millimeters)									Relative Humidity (Percent)						Wind Speed (m p s)			Sunshine (% of Possible)		Annual Mean Number of Days									
		Normal (1941-1970)					Extremes					Normal (1941-1970)			Extremes			Snow														Sunrise to Sunset							Temperature		
		January		July														Mean Total		Extreme	January			July			Mean Speed												Max	Min	
		Daily Maximum	Daily Minimum	Daily Maximum	Daily Minimum	Annual	Length (Yrs)	Record Highest	Record Lowest	January	Seasonal	Wettest Month	Driest Month	Annual	Wettest Month	Driest Month	Maximum In 24 Hours	January	Seasonal	Maximum In 24 Hours	7 00 a m EST	1 00 p.m. EST	7 00 p m EST	7 00 a m EST	1 00 p m EST	7 00 p m EST	January	July	Fastest Mile (1 6 Kilometers)	January	July	Clear	Partly Cloudy	Cloudy	Precipitation 25mm or More	Snow, Sleet, Hail 25.4mm or More	Thunderstorms	Heavy Fog	≥ 32 2 C	≤ 0 C	≤ 17 8 C
CALIFORNIA																																									
SAN DIEGO	4	18.1	7.7	24.1	17.7	17.2	15	43.9	-0.6	174	837	48	T	240	193	0	78	T	T	T	68	54	55	81	69	66	2.5	3.2	22.8	[illegible]	68	151	116	98	41	0	3	[illegible]	3	*	[illegible]
SAN FRANCISCO	2	12.9	5.1	21.6	12.2	13.8	16	41.1	-4.4	288	1690	111	T	496	312	0	116	T	T	38	86	[illegible]	67	88	66	[illegible]	3.2	6.1	[illegible]			164	[illegible]	[illegible]	[illegible]	*	2	[illegible]	[illegible]	3	[illegible]
SAN FRANCISCO C	16	13.3	7.6	17.7	11.8	13.7	34	38.3	-1.1	243	1711	115	T	525	291	0	93	T	T	T	[illegible]	72	63	92	73	74	3.0	5.0	21.0	56	[illegible]				[illegible]	0	2		[illegible]	*	[illegible]
SANTA CATALINA 1968	478	15.4	[illegible]	25.5	15.2	[illegible]	5	39.4	1.1	196	1140	[illegible]	1	305	190	0	107	0	T	T												173	94	98	42	0	4	158	15		[illegible]
SANTA MARIA	73	17.1	3.5	22.1	11.3	13.8	12	38.9	-6.1	251	1696	61	1	311	246	0	80	T	T	T	81	64	61	88	64	61	3.0	2.9				176	111	[illegible]	[illegible]	0	2	67	5	24	[illegible]
STOCKTON	7	11.6	2.4	34.8	14.8	15.9	15	45.6	-7.2	351	1559	74	T	360	204	0	76	0	T	T	[illegible]	[illegible]	[illegible]	65	41	26	3.0	3.6	20.6			187	[illegible]	[illegible]	[illegible]	[illegible]	3	44	8	24	[illegible]
COLORADO							89	47.8	-51.1							0	281																								
ALAMOSA	2297	1.7	-14.2	27.8	8.4	5.3	33	33.9	-45.6	823	4782	30	6	170	89	T	46	114	[illegible]	401	77	61	59	84	39	36	2.8	3.8				147	[illegible]	[illegible]	60	13	44	15	1	228	47
COLORADO SPRINGS	1873	5.0	-8.8	29.1	13.9	9.1	15	37.2	-29.4	627	3596	79	7	400	203	T	78	[illegible]	[illegible]	457	57	[illegible]	46	[illegible]	38	[illegible]	4.5	4.3	25.0			129	[illegible]	[illegible]	[illegible]	12	59	1	15	161	7
DENVER	[illegible]	6.4	-9.4	30.8	14.8	10.1	15	39.4	-31.7	604	3342	67	11	394	186	T	90	[illegible]	[illegible]	493	[illegible]	[illegible]	48	71	[illegible]	36	4.2	3.8	25.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18	[illegible]	[illegible]	32	[illegible]	[illegible]
GRAND JUNCTION	1476	2.6	-9.4	33.9	17.9	11.5	12	40.6	-26.1	661	3124	27	12	214	68	0	40	[illegible]	593	231	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.2	29.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	35	9	[illegible]	138	[illegible]
PUEBLO	1428	7.5	-9.4	32.8	16.4	11.6	11	40.6	-29.4	601	2996	[illegible]	7	313	157	T	90	140	[illegible]	427	[illegible]	[illegible]	[illegible]	[illegible]	23	34	3.6	3.9	35.8	[illegible]	[illegible]	136	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8
CONNECTICUT							88	40.6	-35.6							0	308																								
BRIDGEPORT	2	2.7	[illegible]	27.5	18.9	11.1	[illegible]	37.8	[illegible]	599	3034	97	65	981	450	2	175	178	[illegible]	424	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.8	4.4	30.[illegible]			[illegible]	[illegible]	157	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	*
HARTFORD	52	[illegible]	[illegible]	28.9	16.2	9.5	15	38.9	-32.2	694	3527	110	77	1102	555	9	308	[illegible]	[illegible]	381	72	57	[illegible]	38	[illegible]	[illegible]	4.3	3.5	23.7	58	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14	[illegible]	[illegible]	[illegible]	[illegible]	6
NEW HAVEN 1969	2	2.8	-5.6	26.9	17.3	10.1	35	37.8	-22.2	[illegible]	[illegible]	117	81	1169	278	3	141	[illegible]	942	437	75	[illegible]		[illegible]	66		3.7	2.8	25.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DELAWARE							83	43.3	-27.2							0	216																								
WILMINGTON	[illegible]	4.5	-4.4	29.7	18.9	[illegible]	28	38.9	[illegible]	548	2744	109	66	1022	307	4	158	[illegible]	[illegible]	396	75	[illegible]	69	80	54	[illegible]	4.3	3.4	25.9			94	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	39	[illegible]	[illegible]	*
DIST. OF COLUMBIA																																									
WASHINGTON DULLES	[illegible]	5.1	[illegible]	[illegible]	17.8	12.1	13	39.4	-22.2	567	2783	[illegible]	65	1019	462	T	302	142	[illegible]	391	[illegible]	61	[illegible]	[illegible]	57	[illegible]	3.6	2.8	[illegible]			93	[illegible]	165	[illegible]	6	[illegible]	37	[illegible]	[illegible]	[illegible]
WASHINGTON NATIONAL	3	6.4	-2.4	31.2	20.6	14.1	15	38.3	-16.1	506	[illegible]	119	62	[illegible]	[illegible]	T	183	[illegible]	427	366	[illegible]	[illegible]	[illegible]	[illegible]	52	[illegible]	4.4	3.6	34.9	[illegible]	[illegible]	[illegible]	[illegible]	158	[illegible]	5	[illegible]	[illegible]	[illegible]	74	[illegible]
FLORIDA							36	42.8	-18.9							0	983																								
APALACHICOLA																		T	T	[illegible]	[illegible]	[illegible]	[illegible]	85	72	[illegible]	3.8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	*	[illegible]	[illegible]	[illegible]	5	[illegible]
DAYTONA BEACH	[illegible]	[illegible]	[illegible]	[illegible]	22.4	[illegible]	32	[illegible]	-6.1	[illegible]	498	[illegible]	[illegible]	1276	[illegible]	T	236	0	T	T	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.1	3.4	25.9			[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]	[illegible]	54	5	[illegible]
FORT MYERS	5	23.7	[illegible]	32.8	23.2	[illegible]	16	[illegible]	-3.3	71	254	226	[illegible]	1370	[illegible]	0	276	0	0	0	[illegible]	58	[illegible]	[illegible]	[illegible]	75	3.8	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	0	95	[illegible]	[illegible]	[illegible]	[illegible]
JACKSONVILLE	8	18.1	4.9	32.2	22.2	20.2	34	[illegible]	-11.1	[illegible]	737	[illegible]	45	[illegible]	[illegible]	T	258	T	T	38	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.8	3.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	*	[illegible]	[illegible]	[illegible]	12	[illegible]
KEY WEST INTL AP	[illegible]	[illegible]	[illegible]	31.8	26.7	[illegible]	23	[illegible]	7.8	[illegible]	36	186	39	[illegible]	548	0	226	0	0	0	[illegible]	[illegible]	77	77	66	71	5.4	4.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]	[illegible]	44	[illegible]	[illegible]
LAKELAND C	65	[illegible]	[illegible]	32.4	22.6	[illegible]	35	38.3	-6.7	[illegible]	377	205	[illegible]	1256	398	0	257	T	T	T							3.3	2.5		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]	19	82	2	[illegible]
MIAMI INTL AP	[illegible]	24.2	14.9	31.7	24.2	[illegible]	[illegible]	35.6	1.1	[illegible]	114	229	42	1519	620	T	253	0	0	0	[illegible]	61	70	[illegible]	65	73	4.2	3.5	33.[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	75	7	[illegible]	[illegible]	[illegible]
ORLANDO	[illegible]	[illegible]	[illegible]	32.1	22.7	22.1	12	37.2	-0.6	[illegible]	407	211	40	[illegible]	388	5	156	T	T	0	[illegible]	[illegible]	[illegible]	[illegible]	59	74	4.0	3.4	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
PENSACOLA	[illegible]	15.2	[illegible]	32.1	23.3	[illegible]	12	37.8	-11.7	237	877	207	80	1631	407	0	255	T	5	48	83	[illegible]	75	87	63	[illegible]	3.9	3.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	*	74	[illegible]	[illegible]	14	[illegible]
TALLAHASSEE	17	[illegible]	[illegible]	32.6	22.0	19.8	15	37.8	-12.2	227	868	227	71	[illegible]	511	T	241	T	T	10	88	61	[illegible]	93	61	75	3.4	2.6	25.9			94	[illegible]	[illegible]	[illegible]	0	[illegible]	33	88	35	[illegible]
TAMPA	[illegible]	21.4	[illegible]	32.3	23.2	22.3	12	36.7	-5.0	113	349	214	45	1254	523	T	308	T	T	T	[illegible]	76	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.4	[illegible]	[illegible]	[illegible]	[illegible]	142	[illegible]	[illegible]	0	[illegible]	24	[illegible]	[illegible]	[illegible]
WEST PALM BEACH	5	[illegible]	[illegible]	32.0	23.4	23.6	[illegible]	37.2	-1.7	40	166	[illegible]	56	1576	631	1	387	0	0	[illegible]	[illegible]	[illegible]	73	[illegible]	64	75	4.4	3.4	38.4			7	157	136	[illegible]	0	79	5	54	*	[illegible]
GEORGIA							84	44.4	-27.2							0	457																								
ATHENS	[illegible]	11.8	[illegible]	31.9	20.4	16.4	32	[illegible]	-18.3	374	1653	145	69	1285	380	T	252	18	51	127	82	[illegible]	69	[illegible]	61	[illegible]	3.8	2.8	[illegible]			111	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	*
ATLANTA	[illegible]	10.8	[illegible]	[illegible]	[illegible]	[illegible]	15	36.7	-19.4	[illegible]	1719	149	54	1228	399	T	144	[illegible]	38	211	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.7	3.3	31.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	58	*
AUGUSTA	[illegible]	14.2	[illegible]	32.7	21.1	17.4	11	[illegible]	-15.0	334	[illegible]	129	55	1083	[illegible]	T	152	5	28	348	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.1	[illegible]	27.7			[illegible]	[illegible]	[illegible]	[illegible]	*	[illegible]	[illegible]	[illegible]	59	[illegible]
COLUMBUS	117	[illegible]	[illegible]	32.7	21.3	17.9	30	40.0	-16.1	317	1321	[illegible]	[illegible]	1294	336	0	143	T	[illegible]	356	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.3	[illegible]	24.6			[illegible]	[illegible]	[illegible]	[illegible]	*	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MACON	[illegible]	14.8	[illegible]	33.4	21.5	[illegible]	11	[illegible]	-16.1	[illegible]	1244	131	59	1129	[illegible]	0	130	5	[illegible]	419	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.1	31.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	*	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
ROME	[illegible]	[illegible]	-1.1	32.4	19.5	15.7	28	41.1	-20.6	[illegible]	[illegible]	157	74	1336	441	T	191	[illegible]	48	208	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]						[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	*
SAVANNAH	14	16.2	[illegible]	32.7	21.9	[illegible]	[illegible]	38.9	-12.8	[illegible]	1084	[illegible]	49	1299	511	1	179	T	8	91	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.8	3.3	29.5	53	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	*	[illegible]	[illegible]	50	35	[illegible]
HAWAII							71	37.8	-7.8							0	965																								
HILO	[illegible]	25.4	17.1	28.3	19.7	[illegible]	[illegible]	34.4	11.7	0	0	[illegible]	168	[illegible]	[illegible]	9	[illegible]	[illegible]	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.4	3.1	13.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]				
HONOLULU	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24.8	[illegible]	33.3	11.7	0	0	112	9	582	528	T	434	[illegible]	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.5	6.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]				
KAHULUI	15	26.4	[illegible]	[illegible]	21.1	[illegible]	[illegible]	35.6	8.9	0	0	91	5	468	347	0	148	[illegible]	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.1	7.1	19.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		5				
LIHUE	31	25.5	[illegible]	28.9	[illegible]	[illegible]	25	[illegible]	10.0	0	0	161	[illegible]	1122	[illegible]	8	293	[illegible]	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.6	5.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]				
IDAHO							83	47.8	-51.1							0	182																								
BOISE	[illegible]	2.5	[illegible]	32.5	14.7	[illegible]	30	43.9	-30.6	[illegible]	[illegible]	37	4	292	[illegible]	0	57	193	551	33	80	73	71	53	[illegible]	[illegible]	3.8	3.8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
IDA FALLS [illegible] R:1946	[illegible]	-3.1	[illegible]	31.7	9.5	5.4	15	[illegible]	-41.7	[illegible]	[illegible]	31	8	178	128	[illegible]	45										2.1	3.6	[illegible]						[illegible]				[illegible]	[illegible]	[illegible]
IDA FALLS [illegible] R 1946	[illegible]	-2.5	[illegible]	31.1	[illegible]	[illegible]	17	38.3	[illegible]	[illegible]	[illegible]	28	7	192	112	[illegible]	44	[illegible]	[illegible]	216							[illegible]	3.5	[illegible]						[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
LEWISTON	[illegible]	3.3	[illegible]	31.8	14.2	[illegible]	[illegible]	[illegible]	-30.0	594	3035	46	13	336	122	T	44	[illegible]	457	325	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	23			32.2			94	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3
POCATELLO	[illegible]	[illegible]	[illegible]	31.6	12.3	8.2	[illegible]	[illegible]	-33.3	[illegible]	3923	33	9	[illegible]	101	0	42	[illegible]	[illegible]	257	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	32.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

NORMALS, MEANS AND EXTREMES

State and Station	Elevation Ground (Meters)	Temperature (°C)								Normal Heating Degree Days (1941-1970)		Precipitation (Millimeters)									Relative Humidity (Percent)						Wind Speed (m.p.s)			Sunshine (% of Possible)		Annual Mean Number of Days									
		Normal (1941-1970)					Extremes					Normal (1941-1970)			Extremes			Snow @			January			July			Mean Speed					Sunrise to Sunset							Temperature		
		January		July														Mean Total		Ex-treme																			Max	Min	
		Daily Maximum	Daily Minimum	Daily Maximum	Daily Minimum	Annual	Length (Yrs)	Record Highest	Record Lowest	January	Seasonal	Wettest Month	Driest Month	Annual	Wettest Month	Driest Month	Maximum In 24 Hours	January	Seasonal	Maximum In 24 Hours	7:00 a.m. EST	1:00 p.m. EST	7:00 p.m. EST	7:00 a.m. EST	1:00 p.m. EST	7:00 p.m. EST	January	July	Fastest Mile (1.6 Kilometers)	January	July	Clear	Partly Cloudy	Cloudy	Precipitation .25mm or More	Snow, Sleet, Hail 25.4mm or More	Thunderstorms	Heavy Fog	≥ 32.2°C	≤ 0°C	≤ -17.8°C
ILLINOIS							86	47.2	-37.2							0	420																								
CAIRO	96	6.5	-1.9	32.1	[illegible]	15.2	33	40.0	-20.6	494	2129	132	68	1197	380	T	192	[illegible]	139	267	81	61		84	59		4.4	2.9	28.2	44	75	114	104	147	115	3	53	7	48	65	*
CHICAGO O HARE	201	-0.5	-9.6	28.4	15.9	9.4	17	37.2	-28.9	725	3609	105	33	836	291	3	117	244	[illegible]	460	77	68	72	81	57	57	5.1	3.5	25.9			86	105	174	126	11	38	16	15	131	12
CHICAGO MIDWAY	185	-0.3	-8.3	29.1	18.3	10.3	12	38.3	-26.7	701	3404	104	[illegible]	875	360	5	158	259	[illegible]	503	73	65	68	77	55	55	5.1	3.7	26.8	44	[illegible]	91	106	168	123	12	39	13	22	118	7
MOLINE	177	-1.1	-10.6	29.6	17.7	9.9	16	37.8	-32.2	749	3552	116	33	919	360	T	160	193	759	417	73	66	69	85	57	59	4.8	3.4	34.4	48	[illegible]	100	101	164	112	9	48	19	24	135	15
PEORIA	193	-0.1	-9.1	29.7	18.1	10.4	16	38.9	-28.9	707	3387	111	38	891	332	1	129	142	597	259	78	69	72	86	59	60	5.0	3.6	33.5	45	68	97	99	169	112	8	49	21	17	131	[illegible]
ROCKFORD	221	-1.7	-11.4	29.0	16.3	8.9	12	37.2	-30.0	772	3802	112	33	933	300	T	141	201	861	277	78	69	74	86	56	57	4.6	3.6	24.1			96	99	170	115	11	42	24	13	140	15
SPRINGFIELD	179	1.6	-7.4	30.3	18.7	11.5	16	41.1	-30.0	659	3087	106	44	890	252	4	130	122	569	277	78	68	72	83	56	57	5.8	3.8	33.5	46	73	108	92	165	113	8	51	18	28	118	8
INDIANA							89	46.7	-37.2							0	267																								
EVANSVILLE	118	5.3	-4.6	31.6	19.3	13.3	15	40.0	-27.8	558	2569	119	64	1064	343	T	154	81	333	269	78	67	68	84	57	58	4.2	2.8	26.4	42	76	100	103	162	115	4	46	14	40	102	3
FORT WAYNE	241	0.3	-7.9	28.7	16.9	9.9	15	38.3	-28.3	684	3449	99	52	919	247	T	117	168	787	345	80	71	75	83	54	57	5.1	3.7	29.1	[illegible]	73	76	105	184	132	10	41	20	14	133	16
INDIANAPOLIS	241	2.2	-6.8	29.7	18.1	11.3	17	37.2	-28.9	639	3098	106	[illegible]	984	322	4	106	[illegible]	541	318	80	69	71	87	60	62	5.0	3.3	40.2	[illegible]	[illegible]	90	101	174	123	7	45	21	15	120	7
SOUTH BEND	236	-0.3	-8.4	28.2	16.5	9.5	12	37.2	-28.3	706	3590	102	49	919	248	1	119	396	[illegible]	396	81	74	75	84	56	59	5.4	3.7	28.2			72	105	188	142	22	43	24	11	124	6
IOWA							103	47.8	-43.9							0	424																								
BURLINGTON	211	-0.2	-9.9	30.1	18.1	10.4	78	43.9	-32.8	725	3416	[illegible]	32	880	384	2	160	[illegible]	655	330	77	69	73	85	58	[illegible]	5.1	3.5	23.2	53	77	99	106	160	104	9	51	18	31	128	[illegible]
DES MOINES	286	-2.5	-11.5	29.4	18.5	9.4	15	40.0	-31.1	785	3727	124	27	784	360	1	157	221	643	503	78	[illegible]	72	82	57	56	5.2	4.0	34.0	51	71	102	95	168	106	10	53	18	21	137	16
DUBUQUE	322	-3.3	-12.6	27.8	16.3	8.1	10	36.1	-33.3	814	4042	134	32	1023	393	T	225	213	[illegible]	394	75	68	73	84	60	64						91	99	175	114	14	45	29	7	148	21
SIOUX CITY	334	-2.1	-12.5	30.4	17.7	9.1	16	40.0	-32.2	809	3862	117	17	654	262	T	140	165	790	290	77	70	72	85	58	56	4.9	4.1	40.7	58	75	106	104	155	[illegible]	10	46	19	23	149	22
WATERLOO	265	-3.5	-13.9	28.7	16.4	8.0	16	37.2	-36.7	839	4119	127	23	857	320	T	236	170	[illegible]	376	76	69	73	86	59	[illegible]	5.0	3.8	24.1			92	102	171	98	10	41	23	14	159	25
KANSAS							89	49.4	-40.0							0	320																								
CONCORDIA	448	2.7	-9.0	32.1	18.9	11.7	14	42.2	-27.2	665	3124	127	17	[illegible]	359	T	139	[illegible]	[illegible]	335	82	65	71	82	51	48	5.5	5.1	[illegible]	62	79	131	94	140	90	7	59	18	47	132	7
DODGE CITY	787	5.9	-7.2	33.0	19.4	12.7	12	41.7	-23.3	589	2803	85	13	523	232	T	116	[illegible]	470	325	76	55	59	75	44	39	6.1	5.8	34.9	67	78	136	105	124	78	6	53	23	63	124	4
GOODLAND	1114	5.3	-10.2	32.5	16.1	10.3	9	42.2	-26.1	644	3399	74	9	423	205	0	98	135	864	386	77	57	59	82	45	41	5.5	5.4	29.5			141	123	101	76	11	49	28	45	159	8
TOPEKA	267	3.5	-7.9	31.8	19.6	12.4	11	40.6	-28.9	637	2912	147	25	880	386	T	140	137	546	386	78	65	67	85	58	56	4.7	3.9	30.4	54	68	112	97	156	95	7	58	14	36	122	5
WICHITA	403	5.2	[illegible]	33.2	20.9	13.7	23	45.0	-24.4	580	2604	114	22	777	266	T	126	[illegible]	[illegible]	343	80	64	67	79	49	45	5.6	5.1	29.5	59	74	125	98	142	84	5	55	18	62	113	2
KENTUCKY							87	45.6	-36.7							0	264																								
COVINGTON	265	4.3	-5.3	30.3	18.1	12.2	14	38.9	-28.3	584	2816	105	55	992	309	5	132	[illegible]	589	249	78	66	69	84	56	[illegible]	4.8	3.2	17.9			79	98	188	129	7	44	26	21	107	5
LEXINGTON	294	5.2	-4.2	30.2	18.8	12.9	12	36.7	-23.9	553	2627	123	54	1130	423	6	149	130	396	241	79	67	69	85	58	63	5.2	3.3	20.0			94	104	167	131	5	47	19	17	95	2
LOUISVILLE	145	5.6	[illegible]	30.7	19.1	13.1	15	38.3	-28.9	546	2578	128	60	1095	379	6	177	124	[illegible]	330	76	64	64	86	58	60	4.3	3.0	27.3	41	66	94	103	168	125	5	45	9	25	91	2
LOUISIANA							85	45.6	-26.7							0	559																								
ALEXANDRIA	28	14.8	2.6	33.0	21.3	18.3	16	40.0	-15.0	304	1222	142	83	1373	332	2	157	10	18	185	88	67	74	96	61	68	3.3	2.2	20.6			108	110	147	107	*	69	40	74	42	0
BATON ROUGE	20	16.4	4.7	32.9	22.6	19.7	17	38.9	-12.2	251	928	165	67	1373	369	2	307	T	5	46	85	66	68	91	63	70	4.2	2.8	25.9			99	119	147	107	*	70	38	83	24	0
LAKE CHARLES	3	16.4	6.1	32.9	23.1	20.2	11	37.2	-6.7	231	832	106	88	1409	507	T	358	8	8	10	89	71	79	93	63	71	4.6	2.9	25.9			95	119	151	96	*	78	49	69	13	0
NEW ORLEANS INTL AP	1	16.8	6.4	32.4	22.9	20.2	29	37.8	-10.0	224	814	171	57	1442	485	0	250	T	5	69	86	67	73	91	66	73	4.2	2.8	30.8	38	52	109	122	134	114	*	69	31	67	13	0
SHREVEPORT	77	13.7	3.2	34.2	22.7	18.8	23	41.7	-16.1	307	1204	132	68	1136	315	0	182	13	36	102	83	64	65	89	56	57	4.4	3.4	23.2	49	74	117	100	148	97	*	54	21	89	34	0
MAINE							88	40.6	-44.4							0	204																								
CARIBOU	190	-6.8	-16.9	24.2	12.3	3.8	36	35.6	-40.6	935	5351	101	52	910	215	3	158	569	2840	462	74	67	72	82	58	70	5.5	4.4				57	101	207	160	31	20	27	2	190	43
PORTLAND	13	-0.4	-11.3	26.2	13.8	7.2	35	39.4	-39.4	749	4165	123	66	1036	312	7	196	447	1887	579	77	62	71	81	60	75	4.1	3.4	34.0	55	64	107	99	159	127	18	18	52	5	160	15
MARYLAND							80	42.8	-40.0							0	375																								
BALTIMORE INTL AP	45	5.5	[illegible]	30.4	19.2	[illegible]	25	38.9	-21.7	544	2627	107	71	1028	466	T	199	130	556	394	72	59	62	81	53	64	4.4	3.7	35.8	51	65	105	110	150	113	8	28	30	31	99	*
MASSACHUSETTS							88	41.7	-36.7							0	461																								
BLUE HILL OBS R	192	0.9	-7.4	26.9	16.5	9.3	90	38.3	-29.4	668	3519	129	75	1189	477	2	252	389	1534	716	76	62	68	81	58	74	7.8	5.8	41.1	45	57				135	16			5	132	4
BOSTON	5	2.2	-5.3	27.4	18.4	10.7	11	38.9	-20.0	617	3122	115	70	1080	434	9	213	302	[illegible]	493	67	57	61	73	56	66	6.3	4.8	27.3	54	66	99	105	161	128	11	19	23	11	98	1
NANTUCKET 1969	13	3.5	-3.7	23.7	16.2	9.7	4	32.2	-16.7	572	3294	110	59	1101	328	T	166	221	884	511	79	67	75	87	76	91	6.6	4.9	32.6	42	60	86	93	186	125	8	20	98	1	108	0
PITTSFIELD 1968	357	-0.8	-10.5	26.2	13.6	7.2	29	35.0	-31.7	744	4210	124	64	1128	262	11	108	483	1981	432												57	127	181	152	24	28		3	163	14
WORCHESTER	301	-0.6	-8.8	26.3	16.0	8.4	20	35.6	-28.3	713	3804	118	81	1149	334	21	122	404	1895	610	74	60	66	74	55	67	5.6	3.9	34.0			91	109	165	128	18	21	85	3	147	7
MICHIGAN							89	44.4	-46.1							0	248																								
ALPENA	210	-2.8	-12.9	26.1	11.1	5.6	17	36.7	-33.3	813	4732	83	34	701	213	4	81	513	2141	409	78	68	72	82	52	60	3.6	2.9	19.7	39	68	71	106	188	146	25	34	27	6	183	25
DETROIT CITY AP	189	-0.2	-7.1	28.4	17.4	9.9	41	40.6	-26.7	680	3460	87	46	786	204	3	94	201	805	254	78	69	73	75	51	55	5.2	3.7	20.6	32	70	80	108	177	131	11	32	11	15	124	2
DETROIT METRO. AP	193	-0.1	-8.2	28.6	16.2	9.5	17	37.2	-25.6	695	3566	87	44	805	199	4	94	201	986	488	79	70	74	82	53	58	5.2	3.8	38.9	38	68	74	110	181	133	13	33	23	11	139	6
DETROIT W R 1968	217	0.8	-6.8	30.0	16.9	10.0	7	37.2	-25.0	661	3476	88	49	779	221	6	121	183	831	221	78	70	72	82	49	52	5.4	3.9	26.8			78	107	180	125	12	33	28	15	142	7
FLINT	235	-1.2	-9.7	27.3	14.6	8.2																																			

State and Station	Elevation Ground (Meters)	Temperature (C) Normal (1941-1970) January Daily Maximum	January Daily Minimum	July Daily Maximum	July Daily Minimum	Annual	Extremes Length (Yrs)	Record Highest	Record Lowest	Normal Heating Degree Days (1941-1970) January	Seasonal
MICHIGAN											
GRAND RAPIDS	239	-0.4	-8.7	28.5	15.4	8.8	12	37.8	-28.3	721	3718
HOUGHTON LAKE	350	-3.4	-12.9	26.0	12.1	5.9	11	36.6	-31.7	821	4637
LANSING	[illegible]	-1.2	-9.3	28.1	15.1	8.6	12	37.8	-31.1	731	3935
MARQUETTE	[illegible]	[illegible]	[illegible]	24.1	14.1	5.9	34	38.9	[illegible]	833	4637
MUSKEGON	191	-1.1	-7.7	26.9	15.3	8.5	15	37.2	-25.6	[illegible]	3827
SAULT STE MARIE	221	-5.0	[illegible]	23.9	11.4	4.4	35	36.7	-33.3	873	[illegible]
MINNESOTA							89	45.6	-51.6		
DULUTH	435	[illegible]	[illegible]	24.7	13.6	3.7	15	[illegible]	-39.4	973	[illegible]
INTERNATIONAL FALLS	359	[illegible]	[illegible]	25.7	11.9	1.5	35	[illegible]	-43.3	[illegible]	5959
MINNEAPOLIS	254	[illegible]	[illegible]	28.9	15.3	6.7	15	[illegible]	-30.7	[illegible]	4532
ROCHESTER	399	-5.3	-15.6	27.1	15.3	6.4	15	37.2	-35.6	837	[illegible]
ST CLOUD	313	[illegible]	[illegible]	27.7	14.3	5.4	35	39.4	[illegible]	960	4925
MISSISSIPPI							57	[illegible]	[illegible]		
JACKSON	94	14.7	[illegible]	33.7	21.4	18.3	12	38.4	[illegible]	315	1278
MERIDIAN	88	14.7	[illegible]	33.0	[illegible]	15.1	11	39.4	-14.4	317	1327
[illegible] 1964	[illegible]	[illegible]	4.7	[illegible]	[illegible]	18.9	24	[illegible]	-16.7	184	1134
MISSOURI							38	[illegible]	[illegible]		
COLUMBIA [illegible] 1969	237	4.1	-5.7	32.1	[illegible]	12.8	[illegible]	[illegible]	-27.8	598	2803
[illegible] REGIONAL	[illegible]	3.3	[illegible]	[illegible]	[illegible]	12.4	5	39.4	[illegible]	617	2821
KANSAS CITY	[illegible]	2.3	-7.1	[illegible]	[illegible]	12.5	3	[illegible]	[illegible]	541	2807
KANSAS CITY 1971	[illegible]	4.4	-4.9	33.3	21.7	14.8	12	[illegible]	[illegible]	573	[illegible]
ST JOSEPH	[illegible]	2.7	-8.7	[illegible]	[illegible]	12.1	11	[illegible]	-31.7	655	3020
ST LOUIS											
SPRINGFIELD	384	[illegible]	[illegible]	[illegible]	19.2	[illegible]	[illegible]	[illegible]	-23.3	[illegible]	2539
MONTANA							[illegible]	[illegible]	-56.7		
BILLINGS	1087	[illegible]	[illegible]	29.8	14.4	7.9	17	[illegible]	-32.8	[illegible]	[illegible]
GLASGOW	[illegible]	-7.3	[illegible]	29.1	13.7	5.3	11	[illegible]	-43.9	[illegible]	4987
GREAT FALLS	1115	-1.5	[illegible]	28.7	12.7	[illegible]	15	[illegible]	[illegible]	[illegible]	[illegible]
HAVRE	[illegible]	-5.5	[illegible]	29.4	12.7	5.7	[illegible]	43.9	[illegible]	922	[illegible]
HELENA	1157	[illegible]	[illegible]	28.7	[illegible]	6.2	12	[illegible]	-38.9	808	[illegible]
KALISPELL	[illegible]	-2.7	[illegible]	[illegible]	9.8	5.4	16	[illegible]	-37.2	[illegible]	[illegible]
MILES CITY	801	-3.3	[illegible]	[illegible]	15.4	7.4	40	43.3	[illegible]	[illegible]	4382
MISSOULA	[illegible]	-1.9	[illegible]	[illegible]	9.4	6.5	15	[illegible]	-34.4	[illegible]	[illegible]
NEBRASKA							[illegible]	[illegible]	-43.9		
GRAND ISLAND	[illegible]	[illegible]	[illegible]	31.5	17.7	10.1	[illegible]	[illegible]	-34.3	[illegible]	3506
LINCOLN	[illegible]	[illegible]	[illegible]	[illegible]	16.7	[illegible]	4	[illegible]	[illegible]	[illegible]	3454
[illegible] 1971	[illegible]	1.1	-7.8	33.5	19.9	11.5	7	[illegible]	-27.8	[illegible]	3257
NORFOLK	471	-1.3	[illegible]	[illegible]	17.7	9.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
NORTH PLATTE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9.2	11	[illegible]	-31.7	[illegible]	3746
OMAHA	[illegible]	[illegible]	[illegible]	[illegible]	18.3	10.8	12	43.3	[illegible]	[illegible]	[illegible]
SCOTTSBLUFF	[illegible]	3.5	[illegible]	31.5	[illegible]	[illegible]	11	42.8	-31.7	[illegible]	[illegible]
VALENTINE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
NEVADA							87	[illegible]	-45.6		
ELKO	[illegible]	2.2	[illegible]	[illegible]	[illegible]	[illegible]	11	[illegible]	[illegible]	[illegible]	[illegible]
ELY	[illegible]	3.3	[illegible]	30.2	[illegible]	5.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
LAS VEGAS	[illegible]	[illegible]	[illegible]	39.9	[illegible]	[illegible]	[illegible]	[illegible]	-13.3	[illegible]	1445
RENO	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9.7	[illegible]	39.4	[illegible]	[illegible]	[illegible]
WINNEMUCCA	[illegible]	4.8	[illegible]	[illegible]	[illegible]	8.8	[illegible]	[illegible]	-36.7	634	[illegible]
NEW HAMPSHIRE							[illegible]	41.1	-43.3		
CONCORD	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MT WASHINGTON OBS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-2.8	44	[illegible]	-43.9	[illegible]	[illegible]
NEW JERSEY							91	43.3	[illegible]		
ATLANTIC CITY											
NEWARK	7	[illegible]	-4.3	[illegible]	[illegible]	12.2	[illegible]	[illegible]	[illegible]	577	[illegible]

State and Station	Precipitation (Millimeters) Normal (1941-1970) Wettest Month	Driest Month	Annual	Extremes Wettest Month	Driest Month	Maximum in 24 Hours	Snow Mean Total January	Seasonal	Extreme Maximum in 24 Hours
MICHIGAN									
GRAND RAPIDS	87	38	823	[illegible]	4	83	[illegible]	[illegible]	[illegible]
HOUGHTON LAKE	85	[illegible]	721	182	8	66	[illegible]	[illegible]	[illegible]
LANSING	88	41	772	249	4	111	[illegible]	[illegible]	318
MARQUETTE	98	39	[illegible]	[illegible]	5	118	[illegible]	[illegible]	409
MUSKEGON	85	45	[illegible]	51	3	94	[illegible]	[illegible]	[illegible]
SAULT STE MARIE	98	32	[illegible]	41	[illegible]	[illegible]	553	[illegible]	[illegible]
MINNESOTA						275			
DULUTH	113	[illegible]	[illegible]	62	3	[illegible]	[illegible]	[illegible]	[illegible]
INTERNATIONAL FALLS	[illegible]	[illegible]	[illegible]	[illegible]	3	[illegible]	[illegible]	[illegible]	[illegible]
MINNEAPOLIS	[illegible]	19	659	[illegible]	T	115	[illegible]	[illegible]	411
ROCHESTER	118	17	[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]
ST CLOUD	119	17	642	[illegible]	T	[illegible]	[illegible]	[illegible]	368
MISSISSIPPI						340			
JACKSON	143	55	1249	[illegible]	[illegible]	178	[illegible]	[illegible]	[illegible]
MERIDIAN	158	55	1310	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	391
[illegible] 1964	144	52	1257	421	T	253	[illegible]	[illegible]	[illegible]
MISSOURI						452			
COLUMBIA [illegible] 1969	[illegible]	43	939	139	[illegible]	111	[illegible]	[illegible]	[illegible]
[illegible] REGIONAL	[illegible]	[illegible]	[illegible]	56	6	[illegible]	[illegible]	[illegible]	[illegible]
KANSAS CITY	[illegible]	37	940	[illegible]	0	125	[illegible]	[illegible]	[illegible]
KANSAS CITY 1971	[illegible]	31	[illegible]	[illegible]	[illegible]	189			
ST JOSEPH	165	[illegible]	[illegible]	49	T	[illegible]	[illegible]	[illegible]	[illegible]
ST LOUIS							[illegible]	[illegible]	[illegible]
SPRINGFIELD	125	42	[illegible]	470	[illegible]	174	[illegible]	[illegible]	[illegible]
MONTANA						294			
BILLINGS	[illegible]	16	357	194	T	[illegible]	[illegible]	[illegible]	[illegible]
GLASGOW	[illegible]	5	276	30	T	[illegible]	[illegible]	[illegible]	[illegible]
GREAT FALLS	[illegible]	17	[illegible]	[illegible]	T	81	[illegible]	[illegible]	[illegible]
HAVRE	55	[illegible]	[illegible]	[illegible]	T	59	[illegible]	[illegible]	[illegible]
HELENA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
KALISPELL	[illegible]	22	[illegible]	[illegible]	T	[illegible]	498	1112	[illegible]
MILES CITY	84	12	354	[illegible]	T	67	[illegible]	[illegible]	[illegible]
MISSOULA	[illegible]	18	339	[illegible]	T	40	[illegible]	[illegible]	[illegible]
NEBRASKA						334			
GRAND ISLAND	[illegible]	13	595	155	[illegible]	[illegible]	[illegible]	147	[illegible]
LINCOLN	127	16	[illegible]	[illegible]	T	[illegible]	[illegible]	144	[illegible]
[illegible] 1971	114	23	[illegible]	[illegible]	1	[illegible]	[illegible]	134	483
NORFOLK	124	[illegible]	[illegible]	[illegible]	T	[illegible]	[illegible]	132	[illegible]
NORTH PLATTE	[illegible]	[illegible]	[illegible]	203	T	97	[illegible]	[illegible]	[illegible]
OMAHA	[illegible]	[illegible]	[illegible]	[illegible]	T	154	[illegible]	[illegible]	[illegible]
SCOTTSBLUFF	85	8	[illegible]	[illegible]	T	95	[illegible]	[illegible]	[illegible]
VALENTINE	91	8	[illegible]	[illegible]	T	65	[illegible]	[illegible]	[illegible]
NEVADA						[illegible]			
ELKO	29	[illegible]	248	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	424
ELY	25	14	[illegible]	9	[illegible]	[illegible]	[illegible]	[illegible]	323
LAS VEGAS	[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
RENO	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	429
WINNEMUCCA	[illegible]	5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	251
NEW HAMPSHIRE						264			
CONCORD	[illegible]	[illegible]	[illegible]	157	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MT WASHINGTON OBS	[illegible]	130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
NEW JERSEY						370			
ATLANTIC CITY							[illegible]	[illegible]	[illegible]
NEWARK	[illegible]	[illegible]	[illegible]	301	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

State and Station	Relative Humidity (Percent) January 7 00 a.m. EST	January 1 00 p.m. EST	January 7 00 p.m. EST	July 7 00 a.m. EST	July 1 00 p.m. EST	July 7 00 p.m. EST	Wind Speed (m p s) Mean Speed January	July	Fastest Mile (1 6 Kilometers)	Sunshine (% of Possible) January	July	Annual Mean Number of Days Sunrise to Sunset Clear	Partly Cloudy	Cloudy	Precipitation 25mm or More	Snow, Sleet, Hail 25.4mm or More	Thunderstorms	Heavy Fog	Temperature Max ≥ 32 2 C	Min ≤ 0 C	≤ 17 8 C
MICHIGAN																					
GRAND RAPIDS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.2	3.8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
HOUGHTON LAKE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.6	3.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
LANSING	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.5	3.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16	34	[illegible]	[illegible]	[illegible]	[illegible]
MARQUETTE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MUSKEGON	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24	[illegible]	[illegible]	[illegible]
SAULT STE MARIE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.7	26.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	47	[illegible]	[illegible]	[illegible]
MINNESOTA																					
DULUTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
INTERNATIONAL FALLS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MINNEAPOLIS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
ROCHESTER	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
ST CLOUD	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MISSISSIPPI																					
JACKSON	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MERIDIAN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5	[illegible]	[illegible]	[illegible]
[illegible] 1964	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]
MISSOURI																					
COLUMBIA [illegible] 1969	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible] REGIONAL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
KANSAS CITY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
KANSAS CITY 1971																					
ST JOSEPH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9	[illegible]	[illegible]	[illegible]
ST LOUIS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3
SPRINGFIELD	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3
MONTANA																					
BILLINGS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
GLASGOW	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
GREAT FALLS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
HAVRE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
HELENA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
KALISPELL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MILES CITY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MISSOULA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
NEBRASKA																					
GRAND ISLAND	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
LINCOLN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible] 1971	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
NORFOLK	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
NORTH PLATTE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
OMAHA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SCOTTSBLUFF	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
VALENTINE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
NEVADA																					
ELKO	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
ELY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
LAS VEGAS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
RENO	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
WINNEMUCCA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
NEW HAMPSHIRE																					
CONCORD	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]
MT WASHINGTON OBS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	64	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
NEW JERSEY																					
ATLANTIC CITY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
NEWARK	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

NORMALS, MEANS AND EXTREMES

State and Station	Elevation Ground (Meters)	Temperature (°C)								Normal Heating Degree Days (1941-1970)		Precipitation (Millimeters)									Relative Humidity (Percent)						Wind Speed (m.p s)			Sunshine (% of Possible)		Annual Mean Number of Days									
		Normal (1941-1970)					Extremes					Normal (1941-1970)			Extremes			Snow @														Sunrise to Sunset							Temperature		
		January		July														Mean Total		Ex-treme	January			July			Mean Speed												Max	Min	
		Daily Maximum	Daily Minimum	Daily Maximum	Daily Minimum	Annual	Length (Yrs)	Record Highest	Record Lowest	January	Seasonal	Wettest Month	Driest Month	Annual	Wettest Month	Driest Month	Maximum In 24 Hours	January	Seasonal	Maximum In 24 Hours	7.00 a.m. EST	1.00 p.m. EST	7.00 p.m. EST	7.00 a.m. EST	1.00 p.m. EST	7.00 p.m. EST	January	July	Fastest Mile (1.6 Kilometers)	January	July	Clear	Partly Cloudy	Cloudy	Precipitation .25mm or More	Snow, Sleet, Hail 25.4mm or More	Thunderstorms	Heavy Fog	≥ 32.2 C	≤ 0 C	≤ 17.8 C
NEW JERSEY																																									
TRENTON U	17	3.8	-3.7	29.4	19.3	12.2	43	41.1	-25.6	567	2748	120	64	1020	358	1	192	140	584	422							4.4	3.5	28.0	51	65	99	117	149	122	7	33		16	68	*
NEW MEXICO							84	46.7	-45.6							0	287																								
ALBUQUERQUE	1619	8.3	-4.7	33.4	18.4	13.8	16	40.6	-27.2	513	2384	35	7	197	85	0	49	56	272	361	68	49	37	61	35	28	3.6	4.1	40.2	73	76	174	109	82	59	4	43	5	61	121	
CLAYTON	1515	8.6	-7.4	30.7	15.5	11.5	31	40.0	-29.4	549	2892	70	7	414	197	0	119	84	498	323	63	4[illegible]	47	77	42	42						164	97	104	67	7	54	11	35	143	3
RATON 1969	1944	7.4	-10.8	30.3	11.6	9.4	23	36.7	-35.0	620	3460	67	7	375	303	0	142	122	6.5	257		45			38							134	132	99	78	9	75	8	16	182	[illegible]
ROSWELL 1972	1101	12.8	-6.3	35.2	16.5	14.7	12	43.3	-22.2	467	2107	46	9	295	143	0	108	69	282	389	70	46	37	73	40	35	3.8	4.2	33.5	78	76	178	102	85	50	4	40	9	107	109	[illegible]
ROSWELL	1112	12.6	-3.1	34.3	19.9	16.2	3	40.0	-13.3	463	2054	43	7	269	165	T	59	71	279	119	72	52	42	75	47	28	3.9	4.0	32.0	6[illegible]	63	180	111	74	48	4	30	7	74	94	[illegible]
SILVER CITY 1968	1638	11.4	-3.1	32.4	17.7	14.6	7	38.9	-22.8	439	2058	61	7	273	114	0	53	66	213	178		43	39		36	36						187	110	68	60	3	54	1	43	105	
NEW YORK							86	42.2	-46.7							0	284																								
ALBANY	84	-0.9	-10.9	28.8	15.6	8.7	10	36.7	-33.3	749	3826	83	54	847	228	5	115	373	1569	556	8[illegible]	63	73	79	54	6[illegible]	4.4	3.3	3[illegible].7	40	64	71	110	184	135	16	28	24	8	155	1[illegible]
BINGHAMTON	435	-1.8	-9.3	25.8	15.3	7.8	24	35.6	-28.9	740	4047	97	57	949	240	7	99	467	2205	584	8[illegible]	72	75	85	58	66	5.2	3.8	32.2	37	66	45	106	214	163	25	31	53	2	148	8
BINGHAMTON U 1968	262	1.2	-7.3	28.4	15.8	9.3	77	39.4	-33.3	661	3584	97	60	932	244	4	116	325	1326	533															151	15				133	7
BUFFALO	215	-1.2	-8.0	26.4	15.9	8.4	15	34.4	-28.9	711	3848	95	57	917	232	3	99	549	2250	617	78	72	76	79	55	61	6.5	4.7	40.7	34	69	56	105	204	168	26	30	20	2	136	4
NEW YORK CENTRAL PK.	40	3.6	-3.4	29.6	20.0	12.5	107	41.1	-26.1	565	2693	102	69	1021	428	1	284	191	739	671	68	6[illegible]	61	75	55	63	4.8	3.4	31.3	5[illegible]	65	107	125	133	1[illegible]1	8	20		16	81	*
NEW YORK KENNEDY	4	3.3	-4.0	28.4	19.4	11.7	15	40.0	-18.9	579	2880	109	68	1055	442	T	167	160	605	505	71	59	64	74	57	7[illegible]	6.0	4.3	23.2			94	123	148	116	7	22	33	10	84	*
NEW YORK LA GUARDIA	3	3.2	-2.1	28.9	20.7	12.4	14	41.7	-18.9	567	2727	114	73	1057	408	1	181	160	581	579	65	57	58	72	53	6[illegible]	6.2	4.6	31.3			92	117	156	1[illegible]0	7	24	14	13	75	*
ROCHESTER	167	-0.4	-8.5	27.9	15.7	8.8	12	36.7	-23.9	706	3732	75	57	796	246	6	98	533	2187	475	75	67	72	81	52	59	5.2	3.5	32.6	37	7[illegible]	6[illegible]	11[illegible]	194	154	27	29	13	11	135	6
SYRACUSE	125	-0.3	-9.0	27.8	16.1	8.9	12	36.1	-32.2	713	3710	69	68	925	312	5	108	632	2771	622	76	68	74	79	55	63	4.9	3.8	28.2	35	67	64	101	200	167	32	29	9	7	138	[illegible]
NORTH CAROLINA							89	42.8	-33.9							0	564																								
ASHEVILLE	652	9.1	-2.6	29.1	17.0	13.2	11	35.6	-21.7	467	2354	124	75	1148	287	4	130	102	478	414	86	61	70	97	65	76	4.2	2.6	26.8	56	60	99	109	157	129	5	50	86	5	105	[illegible]
CAPE HATTERAS R	2	11.3	3.4	28.8	22.3	16.5	18	35.0	-11.1	339	1517	171	78	1413	372	11	206	10	43	178	81	69	79	85	70	83	5.7	4.6	32.2	5[illegible]	65	105	98	162	123	1	45	18	3	31	0
CHARLOTTE	224	11.2	0.1	31.3	20.4	15.8	15	37.8	-16.7	394	1788	116	68	1085	317	T	123	56	142	305	79	57	63	89	60	6[illegible]	3.5	3.0	26.4	55	68	111	103	151	112	2	42	26	32	71	0
GREENSBORO	273	9.3	-1.9	30.8	19.4	14.5	12	37.8	-18.3	453	2125	112	67	1051	337	3	190	81	218	363	81	58	66	91	62	72	3.7	3.0	28.2	51	62	111	107	147	118	2	47	32	27	84	*
RALEIGH	132	10.6	-1.1	30.9	19.6	15.1	11	36.7	-17.8	422	1952	129	71	1081	329	6	132	69	183	236	78	56	64	91	61	74	3.9	3.0	32.6	55	61	114	106	145	113	2	46	36	23	81	*
WILMINGTON	9	13.7	2.3	31.6	22.2	17.6	12	37.8	-10.6	326	1352	212	75	1361	394	4	209	10	51	297	82	59	74	86	65	78	4.2	3.7	39.3	57	63	114	107	144	119	1	46	24	40	41	0
NORTH DAKOTA							84	49.4	-51.1							0	206																								
BISMARCK	502	-7.2	-19.3	29.1	14.1	5.2	16	42.8	-41.7	978	5024	91	11	410	211	T	83	178	975	394	73	67	69	83	47	43	4.5	4.3	32.2	54	76	94	105	166	96	12	34	12	21	186	51
FARGO	273	-9.2	-19.8	28.2	14.8	4.9	16	37.8	-37.2	1018	5150	81	11	498	239	1	120	175	871	284	73	71	72	86	55	53	5.8	4.9	51.4	50	71	87	112	166	103	11	34	13	14	181	54
WILLISTON	579	-7.1	-19.3	28.9	13.4	4.9	14	41.7	-40.6	977	5089	83	12	364	187	T	128	165	742	236	78	71	74	82	46	39	4.5	4.1	31.3	48	76	90	104	171	95	12	26	10	20	191	53
OHIO							102	45.0	-39.4							0	267																								
AKRON	368	1.1	-7.4	28.1	16.0	9.8	12	36.1	-26.1	667	3457	98	55	892	290	5	106	241	1196	455	78	69	71	84	55	61	5.2	3.4	22.8			70	101	194	153	15	40	28	8	127	5
CINCINNATI ABBE OBS.	232	4.3	-4.3	30.3	18.8	12.7	60	42.8	-27.2	567	2691	105	56	1017	347	3	121	130	480	279							3.7	2.3	21.9	41	68				132	6	50		28	98	2
CLEVELAND	237	0.8	-6.5	27.6	16.2	9.8	15	36.7	-28.3	656	3419	89	55	889	241	9	102	259	1308	381	76	69	71	82	57	61	5.6	3.9	33.1	32	68	69	99	197	156	18	36	13	8	124	5
COLUMBUS	247	2.4	-6.4	29.3	16.9	10.8	16	36.7	-26.1	630	3167	107	48	940	248	3	122	178	704	226	76	67	69	84	55	59	4.6	3.0	28.2	37	64	75	105	185	136	9	42	18	15	121	5
DAYTON	303	2.1	-6.4	29.3	18.0	11.1	12	37.8	-26.7	635	3134	99	49	873	277	3	109	165	704	287	75	67	69	80	54	58	5.3	3.6	34.9	41	68	80	101	184	130	9	41	23	17	115	4
MANSFIELD	395	1.8	-6.3	28.7	17.4	10.7	10	36.1	-26.1	637	3232	96	50	855	205	11	129	216	1013	312	80	71	74	82	56	64	5.9	3.7	20.6			69	103	193	140	14	40	32	7	124	5
TOLEDO	204	0.2	-8.2	28.8	16.0	9.6	20	37.2	-27.2	692	3545	86	44	800	215	7	112	211	945	353	78	68	73	85	54	61	4.9	3.4	32.2	43	68	72	108	185	136	12	40	19	13	145	8
YOUNGSTOWN	359	0.6	-7.6	27.7	15.3	9.3	32	37.8	-27.8	677	3570	99	61	965	251	7	109	307	1461	526	82	73	76	85	54	64	5.2	3.5	25.9			66	100	199	163	19	36	30	7	136	5
OKLAHOMA							84	48.9	-32.8							0	398																								
OKLAHOMA CITY	392	8.7	-3.3	33.7	21.3	15.5	10	42.2	-18.3	486	2053	132	28	797	274	T	195	74	234	213	81	63	63	81	50	47	5.9	5.1	38.9	59	75	140	97	128	82	3	51	20	64	80	*
TULSA	198	8.3	-3.3	33.8	21.9	15.7	16	43.3	-19.4	489	2044	130	36	937	478	T	192	76	236	249	79	60	60	83	54	50	4.8	4.2	33.5	52	71	125	103	137	90	4	53	10	70	84	1
OREGON							86	48.3	-47.8							0	258																								
ASTORIA	2	8.1	1.4	19.8	11.2	10.3	22	37.8	-14.4	420	2941	268	24	1685	556	T	110	86	175	274	87	85	79	90	75	69	4.2	3.8	24.6			50	73	242	199	2	8	43	1	38	0
BURNS U	1265	1.9	-9.4	29.8	10.6	7.8	25	39.4	-32.2	685	4006	45	8	300	146	0	55	371	1234	279	82	76	68	53	35	21	2.8	3.4				124	92	149	91	16	14	12	21	187	5
EUGENE	109	7.6	0.6	28.1	10.6	11.4	33	41.1	-24.4	441	2633	194	7	1081	533	0	124	135	203	582	91	86	80	87	56	37	3.8	3.6	28.2			76	84	205	138	3	5	57	15	54	*
MEACHAM 1975	1234	0.1	-6.6	25.1	9.9	6.5	31	40.6	-30.6	668	4368	117	14	830	262	0	76	833	3858	582	87	81	79	62	39	26			19.7			94	67	204	146	44	16	31	3	166	4
MEDFORD	396	6.8	-1.7	31.9	12.1	11.7	15	42.8	-21.1	489	2739	94	6	524	323	0	95	104	221	236	89	87	73	73	44	26	1.9	2.5	24.6			117	81	167	102	3	8	47	56	90	*
PENDLETON	452	3.7	-3.7	31.2	14.9	11.3	40	45.0	-30.0	568	2911	41	7	313	119	0	39	203	452	338	80	75	74	53	33	22	3.8	4.3	34.4			107	88	170	100	6	10	29	35	82	3
PORTLAND	6	6.4	0.3	26.1	12.9	11.4	35	41.7	-19.4	463	2662	153	12	955	326	0	67	112	191	269	86	82	76	82	61	45	4.5	3.3	39.3	24	69	69	67	229	153	2	7	33	10	43	*
SALEM	60	7.4	0.1	28.0	10.4	11.3	14	40.0	-24.4	451	2695	175	9	1043	391	0	80	99	183	274	85	83	76	85	56	39	4.0	3.0	25.9			78	82	205	150	2	6	37	18	68	*
SEXTON SUMMIT R	1169	4.3	-1.6	24.3	10.8	8.7	31	37.8	-18.9	526	3572	166	8	934	612	0	152	658	2748	866	81	81	77	64	59	40	5.7	5.3	28.2			128	67	170	130	30	6	160	3	115	*

State and Station	Elevation Ground (Meters)	Temp. Normal (1941–1970) January Daily Maximum	January Daily Minimum	July Daily Maximum	July Daily Minimum	Annual	Extremes Length (Yrs)	Record Highest	Record Lowest	Normal Heating Degree Days (1941–1970) January	Seasonal	Precip. Normal (1941–1970) Wettest Month	Driest Month	Annual	Precip. Extremes Wettest Month	Driest Month	Maximum In 24 Hours	Snow Mean Total January	Seasonal	Snow Extreme Maximum In 24 Hours	Rel. Humidity January 7 00 a m EST	January 1 00 p m EST	January 7 00 p m EST	July 7 00 a m EST	July 1 00 p m EST	July 7 00 p m EST	Wind Mean Speed January	Wind Mean Speed July	Fastest Mile (1 6 Kilometers)	Sunshine January	Sunshine July	Clear	Partly Cloudy	Cloudy	Precipitation 25mm or More	Snow Sleet Hail 25.4mm or More	Thunderstorms	Heavy Fog	Max ≥ 32 2 C	Max ≤ 0 C	Min ≤ 0 C	Min ≤ 17 8 C
PACIFIC AREA																																										
CANTON ISLAND 1966	2	31.3	25.4	31.9	25.4	28.6	20	36.7	21.1	0	0	110	28	748	520	T	141	0	0	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6.8	5.9				75	146	144	[illegible]	0	4	0	155	[illegible]	[illegible]	[illegible]
ENIWETOK 1966	4	29.2	25.4	30.3	26.2	27.9	13	34.4	21.1	0	0	231	26	1307	623	3	117	0	0	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7.7	5.6							22	0	5	0	15	[illegible]	[illegible]	[illegible]
MARCUS ISLAND 1968	6	24.4	21.1	30.7	25.6	25.7	4	33.9	12.8	0	0	183	41	1081	343	3	144	0	0	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6.3	5.2	51.0	55	73	85	147	133	[illegible]	0	5	1	23	[illegible]	[illegible]	[illegible]
GUAM TAGUAC R	110	28.4	21.9	30.1	22.4	25.9	19	35.0	12.2	0	0	365	75	2313	652	13	254	0	0	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.7	2.3	35.8	55	[illegible]	[illegible]	135	[illegible]	[illegible]	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
JOHNSTON	2	27.1	22.7	29.2	25.0	26.1	20	31.7	16.7			88	26	713	401	2	242	0	0	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6.3	[illegible]	46.9	[illegible]	[illegible]	82	165	[illegible]	[illegible]	0	4	0	[illegible]	[illegible]	[illegible]	[illegible]
KOROR R	29	30.2	23.9	30.0	24.0	27.5	26	33.9	20.6	0	0	411	189	3650	884	31	352	0	0	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.8	3.0	32.6	56	53	[illegible]	48	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	53	[illegible]	[illegible]	[illegible]
KWAJALEIN	2	29.4	25.2	30.4	25.3	27.7	23	36.1	20.6	0	0	304	60	2573	772	4	436	0	0	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7.5	4.8	24.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MAJURO	3	29.3	25.1	29.7	24.8	27.3	23	32.8	20.6	0	0	406	177	3629	790	10	454	0	0	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.7	3.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
PAGO PAGO	4	30.6	22.8	28.7	22.8	26.4	16	33.3	16.7	0	0	377	154	3265	831	18	274	0	0	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.7	5.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
PONAPE R	37	29.9	24.3	30.7	22.7	26.9	25	35.6	18.9	0	0	497	291	4920	982	43	571	0	0	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TRUK MOEN ISLAND	3	29.6	24.9	30.3	23.9	27.3	25	34.4	20.0	0	0	402	163	3701	886	21	379	0	0	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.6	3.3	34.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
WAKE	3	27.6	22.5	30.6	25.1	26.6	28	33.3	17.8	0	0	161	27	950	449	2	381	0	0	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6.0	5.6	46.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
YAP R	17	29.6	24.2	30.7	24.7	27.3	27	36.1	18.3	0	0	385	137	3007	862	25	265	0	0	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.6	2.6	32.6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6	[illegible]	34	[illegible]	[illegible]	[illegible]
PENNSYLVANIA							88	43.9	-41.1							0	676																									
ALLENTOWN	118	2.1	-6.9	29.7	17.1	10.6	32	40.6	-24.4	643	3237	111	69	1079	307	2	124	198	815	445	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.8	3.2	30.2			[illegible]	113	157	[illegible]	9	33	19	16	128	[illegible]	[illegible]
ERIE	223	-0.4	-7.9	25.4	15.6	8.4	13	34.4	-25.0	687	3806	94	54	970	251	15	123	495	2052	584	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.9	4.0	24.0			65	98	[illegible]	[illegible]	26	[illegible]	14	[illegible]	[illegible]	[illegible]	[illegible]
HARRISBURG	103	3.2	-5.3	30.4	18.6	11.9	37	41.7	-22.2	601	2902	96	61	926	471	1	319	231	899	533	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.7	2.8	35.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
PHILADELPHIA	2	4.5	-4.2	30.4	19.3	12.6	16	40.0	-20.6	563	2703	104	64	1014	246	3	144	135	516	371	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.6	3.6	32.6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
PITTSBURGH INT'L AP	347	1.8	-6.2	28.1	15.3	10.2	16	36.7	-27.8	635	3294	98	60	920	208	4	90	257	[illegible]	373	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.8	3.4	25.9	[illegible]	[illegible]	59	[illegible]	[illegible]	[illegible]	[illegible]	36	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
PITTSBURGH	[illegible]	3.0	-4.4	28.9	18.4	11.7	[illegible]	39.4	-25.0	592	2932	94	58	920	225	4	91	188	762	511																9			15	97		
READING R 1968	[illegible]	3.9	-3.2	30.2	19.5	12.4	23	39.4	-18.9	556	2747	108	67	1052	377	4	154	[illegible]	[illegible]	475	[illegible]			[illegible]			5.1	3.6	35.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
WB SCRANTON AVOCA	283	0.8	-7.6	28.3	16.3	9.7	20	38.3	-23.9	672	3407	104	53	884	198	1	94	272	[illegible]	521	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.0	3.3	26.8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
WILLIAMSPORT	[illegible]	1.7	-7.?	29.1	16.3	10.2	31	38.9	-26.1	651	3322	104	64	1016	427	5	220	244	[illegible]	587	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.0	3.0	34.9			[illegible]	115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
RHODE ISLAND							88	[illegible]	-30.6							0	308																									
BLOCK ISLAND	[illegible]	[illegible]	-3.7	24.2	17.4	10.1	24	[illegible]	[illegible]	579	3206	117	56	1029	292	T	216	[illegible]	521	429	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]							[illegible]	114	[illegible]	[illegible]	[illegible]	17	52	[illegible]	59	[illegible]	[illegible]
PROVIDENCE	15	2.3	-6.3	27.3	17.2	[illegible]	12	[illegible]	-20.6	632	3317	115	67	[illegible]	302	[illegible]	168	234	960	455	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	123	[illegible]	[illegible]
SOUTH CAROLINA							91	43.9	-25.0							0	337																									
CHARLESTON	12	15.4	2.9	31.7	21.8	18.2	33	39.4	-13.3	289	1192	209	54	1324	692	T	257	T	13	150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.1	3.6	31.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	115	[illegible]	[illegible]	[illegible]	48	35	[illegible]	[illegible]
COLUMBIA	69	13.8	1.1	33.3	[illegible]	17.5	9	41.1	-15.0	338	1443	144	59	1178	425	T	195	10	46	399	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.2	2.9	26.8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	111	[illegible]	55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
GREENVILLE SPARTNBRG	292	10.9	[illegible]	30.9	20.6	15.9	13	37.2	-21.1	391	1757	135	75	1208	296	6	158	48	[illegible]	290	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.2	2.6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]	67	[illegible]	[illegible]
SOUTH DAKOTA							86	48.9	-50.0							0	203																									
ABERDEEN	395	-6.4	-18.4	29.5	14.7	6.0	16	44.4	-39.4	956	4787	92	11	485	226	0	102	160	[illegible]	381	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.1	4.2	25.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	26	181	[illegible]	[illegible]
HURON	391	-4.8	-16.9	30.4	15.9	7.1	16	44.4	-39.4	904	4475	96	11	494	211	T	139	173	948	447	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.2	4.8	34.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
RAPID CITY	964	1.2	-12.4	30.2	14.9	8.1	33	43.3	-32.8	742	4069	93	10	435	187	T	102	[illegible]	[illegible]	414	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.7	4.4	29.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	159	[illegible]	[illegible]
SIOUX FALLS	432	-4.1	-15.7	29.5	16.4	7.4	12	42.2	-37.8	875	4354	117	14	628	231	T	117	157	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.9	4.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TENNESSEE							93	45.0	-35.6							0	279																									
BRISTOL	[illegible]	7.8	-2.9	29.9	[illegible]	13.4	14	35.6	-26.1	493	2392	126	57	1053	247	2	93	119	[illegible]	411	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.9	1.8	22.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5	[illegible]	[illegible]	14	95	[illegible]	[illegible]
CHATTANOOGA	[illegible]	9.9	[illegible]	31.9	20.1	15.4	36	41.1	-23.3	427	1947	143	75	1319	351	5	166	43	[illegible]	226	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.2	2.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	56	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
KNOXVILLE	[illegible]	9.4	[illegible]	31.1	20.2	15.4	15	37.2	-22.8	420	1932	123	68	1173	298	T	129	97	[illegible]	462	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.7	2.8	32.6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	48	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MEMPHIS	[illegible]	9.7	[illegible]	33.1	21.9	16.4	34	41.1	-25.0	422	1793	138	66	1247	212	T	151	53	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.7	3.4	25.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11	[illegible]	59	[illegible]	[illegible]
NASHVILLE	[illegible]	8.7	-1.7	32.3	20.6	15.2	13	39.4	-21.1	460	[illegible]	127	55	1168	354	T	130	94	[illegible]	259	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.1	2.9	32.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	56	17	38	74	[illegible]	[illegible]
OAK RIDGE R	[illegible]	8.4	-1.4	30.8	19.1	14.3	28	40.6	-22.8	463	2191	144	69	1330	489	T	190	76	249	305							2.1	1.7	26.4			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	53	[illegible]	33	81	[illegible]	[illegible]
TEXAS							95	48.9	-30.6							0	970																									
ABILENE	[illegible]	13.2	[illegible]	35.2	22.4	16.1	12	[illegible]	-18.3	[illegible]	1450	98	25	599	335	0	170	46	114	191	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.5	4.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	55	[illegible]	[illegible]
AMARILLO	[illegible]	9.7	-5.3	33.0	18.9	[illegible]	15	[illegible]	-22.8	494	2324	68	13	515	[illegible]	0	171	80	363	343	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.9	5.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
AUSTIN	[illegible]	[illegible]	4.1	35.2	23.2	[illegible]	15	[illegible]	-11.1	268	965	[illegible]	48	825	[illegible]	0	183	13	28	178	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	23	[illegible]	[illegible]
BROWNSVILLE	[illegible]	[illegible]	[illegible]	33.8	24.4	[illegible]	9	38.9	-4.4	125	[illegible]	133	[illegible]	637	489	T	[illegible]	T	T	T	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
CORPUS CHRISTI	12	[illegible]	7.9	[illegible]	[illegible]	[illegible]	11	[illegible]	-7.8	[illegible]	517	124	28	725	516	0	223	T	T	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DALLAS-FT WORTH	[illegible]	13.4	[illegible]	35.3	[illegible]	18.6	12	42.2	-15.6	346	1323	114	[illegible]	820	321	T	150	36	69	307	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.1	4.3	32.0			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11	[illegible]	37	[illegible]	[illegible]
DALLAS 1973	[illegible]	13.2	[illegible]	34.7	24.1	18.8	15	41.7	-13.3	334	[illegible]	123	49	878	391	T	233	30	51	188	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.7	4.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	35	[illegible]	[illegible]
DEL RIO	[illegible]	17.4	[illegible]	37.3	23.4	[illegible]	13	[illegible]	-8.3	249	[illegible]	77	13	429	[illegible]	0	193	T	20	76	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.8	4.9	26.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15	[illegible]	18	[illegible]	[illegible]
EL PASO	1194	13.9	[illegible]	34.8	21.1	17.4	16	[illegible]	-22.2	368	1489	39	6	197	170	0	67	36	112	198	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.1	4.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	35	[illegible]	[illegible]	63	[illegible]	[illegible]
GALVESTON R	[illegible]	15.2	9.1	[illegible]	[illegible]	21.0	105	38.3	-13.3	203	[illegible]	142	66	1072	661	0	364	T	8	391	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.2	4.4	[illegible]	[illegible]	[illegible]				[illegible]	[illegible]			11	4	[illegible]	[illegible]

NORMALS, MEANS AND EXTREMES

State and Station	Elevation Ground (Meters)	Temperature (C) Normal (1941-1970) January Daily Maximum	January Daily Minimum	July Daily Maximum	July Daily Minimum	Annual	Extremes Length (Yrs)	Record Highest	Record Lowest	Normal Heating Degree Days (1941-1970) January	Seasonal	Precipitation (Millimeters) Normal (1941-1970) Wettest Month	Driest Month	Annual	Extremes Wettest Month	Driest Month	Maximum In 24 Hours	Snow @ Mean Total January	Seasonal	Extreme Maximum In 24 Hours	Relative Humidity (Percent) January 7 00 a.m. EST	January 1 00 p.m. EST	January 7 00 p.m. EST	July 7 00 a.m. EST	July 1 00 p.m. EST	July 7 00 p.m. EST	Wind Speed (m.p.s.) Mean Speed January	Mean Speed July	Fastest Mile (1.6 Kilometers)	Sunshine (% of Possible) January	July	Annual Mean Number of Days Sunrise to Sunset Clear	Partly Cloudy	Cloudy	Precipitation .25mm or More	Snow, Sleet, Hail 25.4mm or More	Thunderstorms	Heavy Fog	Temperature Max ≥ 32.2 C	Min ≤ 0 C	Min ≤ -17.8 C
TEXAS																																									
HOUSTON INTERCONT	29	17.0	8.3	34.3	22.7	20.5	6	38.3	-7.2	231	797	13[illegible]	68	1224	366	7	190	5	10	51	[illegible]	67	73	93	58	63	3.6	2.8	20.6	41	58	93	106	166	108	1	72	41	83	23	0
HOUSTON C[illegible] 1966	12	17.0	8.1	33.3	24.3	21.1	29	41.1	-12.2	202	71[illegible]	131	61	1150	448	T	275	5	8	76															104				91	7	0
HOUSTON HOBBY 1969	15	17.6	4.4	33.4	23.2	20.7	9	41.1	-8.3	213	775	111	69	1167	567	T	398	5	10	112	84	64	67	91	59	64	5.3	3.9	24.1	47	74	87	126	152	103	0	59	42	95	13	0
LUBBOCK	992	11.9	-4.0	33.6	19.4	15.4	29	41.7	-26.7	440	1969	81	12	468	225	0	145	46	234	307	72	44	46	75	47	39	5.6	5.1	31.3	65	71	163	104	98	60	3	45	16	78	98	1
MIDLAND	869	14.3	-1.4	35.0	20.8	17.7	12	41.7	-16.7	368	1456	55	12	343	196	0	152	38	94	173	69	45	33	[illegible]	41	33	4.5	4.6	30.0			106	99	100	51	2	36	15	92	65	0
PORT ARTHUR	5	16.4	5.8	33.3	23.3	20.3	15	41.7	-10.0	233	843	150	77	1399	475	0	335	T	5	12[illegible]	[illegible]	71	79	94	64	73	5.1	3.6	33.1	42	66	92	126	147	105	*	65	41	80	18	0
SAN ANGELO	580	15.1	0.9	36.1	22.4	19.0	16	43.9	-14.4	321	1244	70	18	445	234	0	153	[illegible]	9	147	74	51	45	75	42	36	4.0	4.4	33.5			157	97	111	56	1	36	8	112	57	0
SAN ANTONIO	240	16.4	4.3	35.3	23.2	20.4	34	41.1	-17.8	25[illegible]	872	94	37	700	401	0	185	5	13	119	[illegible]	56	58	87	51	44	4.1	4.1	33.1	49	70	[illegible]	119	136	80	*	36	23	113	22	*
VICTORIA	32	17.4	6.4	34.1	24.1	21.2	15	41.7	-8.9	207	682	117	45	871	359	T	218	T	5	31	[illegible]	65	68	91	56	57	4.8	4.0	44.3			85	118	162	86	*	48	42	102	12	0
WACO	153	14.1	2.6	35.7	23.9	19.5	12	44.4	-15.6	310	1143	117	37	794	381	0	182	23	38	178	[illegible]	[illegible]	52	78	47	42	5.5	4.9	30.8			132	103	130	77	1	46	13	103	32	[illegible]
WICHITA FALLS	303	11.9	-1.4	37.3	22.4	17.8	16	45.0	-20.6	405	1613	116	27	691	306	0	145	43	140	15[illegible]	[illegible]	57	57	78	43	39	5.1	4.8	26.8			154	94	117	69	2	43	12	100	69	*
UTAH							85	46.7	-45.6							0	152																								
MILFORD	1533	3.6	-10.6	33.8	13.2	9.6	27	40.6	-35.6	677	3502	26	13	213	65	0	34	224	[illegible]35	414		[illegible]	[illegible]		24	20			25.0	[illegible]	76	151	102	111	63	15	32	7	59	181	13
SALT LAKE CITY	1286	3.0	-7.5	33.8	15.8	10.6	15	41.7	-27.8	637	3324	54	17	385	124	0	61	340	1476	46[illegible]	77	69	67	51	26	[illegible]	3.4	4.2	31.7	47	84	128	105	132	88	18	35	11	59	133	4
WENDOVER	1291	2.2	-7.3	33.3	19.2	11.2	38	44.4	-28.3	648	3200	19	6	124	76	0	34	56	[illegible]91	216	70	62	59	33	22	15						152	92	121	48	3	29	5	50	128	1
VERMONT							88	40.6	-45.6							0	223																								
BURLINGTON	101	-3.4	-13.4	27.2	14.7	6.9	11	37.2	-32.8	830	4375	94	43	827	293	10	9[illegible]	442	[illegible]91	419	69	63	65	80	54	63	4.3	3.5	32.2	42	65	58	104	203	152	22	25	16	5	164	28
VIRGINIA							85	43.3	-33.9							0	686																								
LYNCHBURG	279	7.7	-2.6	30.1	16.6	13.5	12	37.2	-20.0	489	2351	103	66	972	289	8	159	132	478	340	73	54	60	87	58	71	3.9	3.0	25.0	[illegible]	61	112	106	147	120	5	41	40	18	94	1
NORFOLK	7	9.3	0.1	30.3	21.1	15.2	27	39.4	-13.3	422	1938	150	69	1135	349	9	290	79	183	290	76	60	68	82	60	72	5.2	3.9	34.9	[illegible]	65	109	103	153	116	2	37	23	30	53	0
RICHMOND	51	8.6	-2.4	31.2	19.7	14.3	46	40.0	-24.4	474	2188	143	75	1082	479	8	223	132	363	549	81	57	69	85	57	72	3.5	3.0	30.4	51	65	103	107	155	114	4	37	29	41	85	1
ROANOKE	357	7.6	-2.7	29.9	18.0	13.3	11	37.8	-20.0	493	2393	105	63	991	232	5	163	168	635	442	69	52	57	83	56	65	4.3	3.0	25.9			102	115	148	1[illegible]1	7	38	26	20	90	*
WASHINGTON							109	47.8	-44.4							0	305																								
OLYMPIA	59	6.7	-0.9	25.8	9.3	10.1	16	37.8	-21.7	479	3072	208	18	1289	504	0	125	241	500	521	91	88	81	90	64	49	3.4	2.7	26.8			51	88	226	163	6	5	69	6	88	*
QUILLAYUTE	55	6.7	0.7	19.8	10.2	9.3	9	35.6	-13.9	453	3306	396	[illegible]	2667	690	9	211	277	564	213	[illegible]	89	85	94	72	63	3.7	2.7	17.4	17	40	49	71	245	216	7	8	49	1	67	0
SEATTLE EMSU C	6	7.1	1.5	24.3	13.1	11.4	42	37.8	-12.2	430	2626	136	22	906	278	T	84	107	226	292									29.1	28	63	71	93	201	152	3	6		2	14	0
SEATTLE TACOMA	1[illegible]2	6.3	0.6	23.9	12.1	10.6	16	37.2	-14.4	46[illegible]	2880	151	18	985	328	T	87	183	386	544	80	79	75	83	66	49	4.6	3.8	20.1	21	67	56	81	228	161	5	6	47	3	32	0
SPOKANE	719	-0.5	-6.9	29.1	12.8	8.5	15	42.2	-31.7	682	3797	63	10	442	145	T	53	478	1372	330	82	81	76	60	38	24	4.0	3.7	26.4	26	61	90	86	189	115	18	11	48	21	141	5
STAMPEDE PASS R	1206	-2.6	-7.3	18.6	8.3	4.0	32	32.2	-29.4	722	5222	363	39	2313	773	5	202	2144	1415	958	94	92	91	86	66	59						66	58	241	206	88	7	252	*	188	3
TATOOSH ISLAND 1966	31	7.3	3.8	15.3	10.8	9.6	63	31.1	-10.0	396	3177	309	50	1973	573	1	150	69	196	305	84	[illegible]	82	94	89	87	8.9	4.5	42.0	26	47	58	76	231	197	3	5	59	0	8	[illegible]
WALLA WALLA C	289	4.1	-2.5	31.6	16.8	12.3	61	45.0	-26.7	550	2686	53	8	407	149	0	51	201	513	356		70			34		2.3	2.4	30.0	23	86	115	88	162	106	7	11	14	37	64	2
YAKIMA	321	2.4	-7.4	31.2	11.8	9.9	29	43.3	-3[illegible].7	646	3338	34	4	203	106	0	37	262	643	356	82	76	70	68	35	24	2.6	3.4	21.5			112	91	162	68	8	7	18	34	150	4
WEST INDIES																																									
SAN JUAN P.R.	4	27.7	20.4	30.6	23.8	25.9	21	35.6	15.6	0	0	177	52	1502	383	11	162	0	0	0	81	64	75	79	66	77	4.2	4.4	35.8	65	64	58	212	95	200	0	40	0	37	0	0
SWAN ISLAND 1970	9	26.1	23.3	30.7	25.3	27.2	27	33.3	17.8	0	0	188	16	1311	801	T	274	0	0	0												79	159	127	153	0			13	0	0
WEST VIRGINIA							85	44.4	-38.3							0	483																								
BECKLEY	763	4.4	-5.1	26.7	15.5	10.5	12	32.2	-26.1	579	3119	111	63	1083	233	4	136	310	1382	351	80	67	71	90	62	74	4.9	3.1	23.7			65	91	209	164	17	46	46	*	115	3
CHARLESTON	286	6.4	-3.7	29.8	17.9	12.9	28	38.9	-24.4	526	2550	128	62	1035	344	2	142	218	732	384	77	62	65	90	61	67	3.4	2.2	24.6			58	11[illegible]	190	149	9	43	112	21	100	1
ELKINS	594	4.8	-7.1	26.8	13.9	9.8	31	36.1	-29.4	603	3319	125	69	1098	236	8	82	320	1581	475	80	64	71	95	60	72	3.3	1.9	24.0			49	109	207	167	21	44	81	2	143	6
HUNTINGTON	252	6.1	-2.6	29.8	18.2	12.9	15	37.8	-26.1	529	2569	106	53	988	235	T	108	179	589	267	80	60	65	91	61	67	3.3	2.1	21.0			63	105	197	140	7	45	63	17	98	2
PARKERSBURG C	187	5.2	-4.2	29.8	18.2	12.6	87	41.1	-32.8	553	2676	109	54	976	306	2	122	170	602	465	82	66	74	80	52	67	3.2	2.3	29.5	32	62	109	103	153	142	7	44	12	22	97	2
WISCONSIN							85	45.6	-47.8							0	298																								
GREEN BAY	208	-4.5	-13.9	27.1	14.3	6.5	15	36.1	-33.9	854	4498	87	26	686	230	T	117	236	1080	257	77	70	73	85	57	59	5.0	3.8	48.7	45	64	90	100	175	121	14	35	27	7	162	28
LA CROSSE	198	-3.9	-13.8	28.3	16.9	8.0	11	38.3	-37.8	842	4120	113	22	739	267	1	100	241	1100	399	77	67	71	89	57	55	3.9	3.4	28.2			95	97	173	111	12	41	22	17	151	27
MADISON	262	-3.7	-13.2	27.4	14.9	7.2	16	36.7	-34.4	830	4294	110	24	768	278	2	133	221	1113	406	78	69	73	86	57	58	4.7	3.7	34.4	48	69	92	98	175	117	12	41	22	11	163	25
MILWAUKEE	205	-2.6	-11.4	26.9	15.2	7.6	16	37.2	-31.1	785	4135	91	29	738	251	1	134	305	1148	424	75	68	72	82	60	63	5.8	4.3	32.6	44	70	96	100	169	123	13	36	27	9	146	15
WYOMING							116	45.6	-52.8							0	140																								
CASPER	1627	0.9	-10.7	30.6	12.7	7.4	11	38.3	-40.0	720	4197	49	12	285	142	T	76	234	1885	419	68	59	61	71	32	26	7.6	4.5	36.2			113	106	146	92	23	34	9	24	187	19
CHEYENNE	1867	3.4	-9.5	28.7	12.5	7.7	16	36.7	-32.8	661	4030	64	9	372	136	T	87	150	1321	419	53	44	48	68	34	37	7.1	4.7	33.5	61	68	107	127	131	97	17	50	24	10	172	12
LANDER	1696	-0.5	-13.3	30.0	12.8	6.9	29	38.3	-38.3	782	4371	66	11	352	175	T	90	224	2680	587	66	58	58	56	34	28	2.9	3.4	35.8	67	77	115	125	125	72	25	32	3	19	187	20
SHERIDAN	1208	0.8	-13.1	30.1	12.6	7.2	11	39.4	-34.6	758	4282	74																													

NORMALS, MEANS AND EXTREMES

State and Station	Elevation Ground (Meters)	Temperature (C)								Normal Heating Degree Days		Precipitation (Millimeters)									Relative Humidity (Percent)						Wind Speed (m.p.s.)			[illegible]		Annual Mean Number of Days									
		Normal [illegible]					Extremes			[illegible]		Normal [illegible]			Extremes			Snow			January			July			Mean Speed					Sunrise to Sunset							Temperature		
		January		July														Mean Total		Extreme																			Max	Min	
		Daily Maximum	Daily Minimum	Daily Maximum	Daily Minimum	Annual	Length Yrs	Record Highest	Record Lowest	January	Seasonal	Wettest Month	Driest Month	Annual	Wettest Month	Driest Month	Maximum in 24 Hours	January	Seasonal	Maximum in 24 Hours	7:00 a.m. EST	1:00 p.m. EST	7:00 p.m. EST	7:00 a.m. EST	1:00 p.m. EST	7:00 p.m. EST	January	July	Fastest Mile [illegible]	January	July	Clear	Partly Cloudy	Cloudy	Precipitation .25 mm or More	Snow, Sleet, Hail 25.4 mm or More	Thunderstorms	Heavy Fog	32.2 C and Above	0 C and Below	-17.8 C and Below

ELEVATIONS

State and Station		Ft	Mtrs
ALABAMA			
Birmingham		630	192
Huntsville		641	196
Mobile		221	67
Montgomery		202	62
ALASKA			
Anchorage		132	40
Annette		110	34
Barrow		13	4
Barter Island		[illegible]	15
Bethel		151	46
Bettles		672	205
Big Delta		1274	389
Cold Bay		103	31
Fairbanks		454	138
Gulkana		1579	481
Homer		73	22
Juneau		24	7
King Salmon		49	15
Kodiak		111	34
Kotzebue		16	5
Mc Grath		338	103
Nome		22	7
St. Paul Island		28	9
Summit		2405	733
Talkeetna		356	180
Unalakleet		21	6
Yakutat		31	9
ARIZONA			
Flagstaff		7018	2139
Phoenix		1107	337
Tucson		2555	779
Winslow		4883	1488
Yuma		206	63
ARKANSAS			
Fort Smith		463	141
Little Rock		265	81
CALIFORNIA			
Bakersfield		492	150
Bishop		4145	1263
Blue Canyon		5283	1610
Eureka		60	18
Fresno		327	100
Long Beach		40	12
Los Angeles		104	32
Los Angeles	U	512	156
Mt. Shasta	I	3587	1093
Oakland		7	2
Red Bluff		353	108
Sacramento		25	8
Sandberg	R	4523	1379
San Diego		28	9
San Francisco	U	155	47
San Francisco		18	5
Santa Maria		238	73
Stockton		27	8
COLORADO			
Alamosa		7541	2298
Colorado Springs		6170	1881
Denver		5332	1625
Grand Junction		4839	1475
Pueblo		4720	1439
CONNECTICUT			
Bridgeport		17	5
Hartford		179	55
DELAWARE			
Wilmington		80	24
DISTRICT OF COLUMBIA			
Wash. Dulles Int. AP		323	98
Wash. Nat'l AP		65	20
FLORIDA			
Apalachicola	I	35	11
Daytona Beach		41	12
Fort Myers		12	4
Jacksonville		31	9
Key West		21	6
Lakeland	I	236	72
Miami		12	4
Orlando		119	36
Pensacola		118	36
Tallahassee		68	21
Tampa		11	[illegible]
West Palm Beach		21	6
GEORGIA			
Athens		811	247
Atlanta		1034	315
Augusta		148	45
Columbus		394	120
Macon		362	110
Rome		643	196
Savannah		51	16
HAWAII			
Hilo		36	11
Honolulu		15	5
Kahului		67	20
Lihue		148	45
IDAHO			
Boise		2868	871
Lewiston		1436	438
Pocatello		4478	1365
ILLINOIS			
Cairo	I	357	109
Chicago (O'Hare)		674	205
Chicago (Midway)		623	190
Moline		594	181
Peoria		662	202
Rockford		743	226
Springfield		613	187
INDIANA			
Evansville		388	118
Fort Wayne		828	252
Indianapolis		808	246
South Bend		773	236
IOWA			
Burlington		702	214
Des Moines		963	294
Dubuque		1080	329
Sioux City		1103	336
Waterloo		878	268
KANSAS			
Concordia		1484	452
Dodge City		2592	790
Goodland		3688	1124
Topeka		885	270
Wichita		1340	408
KENTUCKY			
Covington		877	267
Lexington		989	301
Louisville		488	149
LOUISIANA			
Alexandria		118	36
Baton Rouge		76	23
Lake Charles		32	10
New Orleans		30	9
Shreveport		259	79
MAINE			
Caribou		628	191
Portland		63	19
MARYLAND			
Baltimore		155	47
MASSACHUSETTS			
Blue Hill Obs.	R	640	195
Boston		29	9
Worcester		1017	310
MICHIGAN			
Alpena		693	211
Detroit		626	191
Detroit Metro.		664	202
Flint		766	233
Grand Rapids		803	245
Houghton Lake		1160	354
Lansing		874	266
Marquette	U	734	224
Muskegon		633	193
Sault Ste. Marie		724	221
MINNESOTA			
Duluth		1417	432
International Falls		1183	361
Minneapolis		838	255
Rochester		1320	402
St. Cloud		1043	318
MISSISSIPPI			
Jackson		331	101
Meridian		310	94
MISSOURI			
Columbia, Regional		898	274
Kansas City		750	229
St. Joseph		817	249
St. Louis		564	172
Springfield		1270	387
MONTANA			
Billings		3570	1088
Glasgow		2298	700
Great Falls		3657	1115
Havre		2599	792
Helena		3898	1188
Kalispell		2973	906
Miles City		2634	803
Missoula		3189	972
NEBRASKA			
Grand Island		1856	566
Lincoln		1189	362
Norfolk		1551	473
North Platte		2787	849
Omaha		982	299
Scottsbluff		3958	1206
Valentine		2598	792
NEVADA			
Elko		5077	1547
Ely		6262	1909
Las Vegas		2180	664
Reno		4400	1341
Winnemucca		4311	1314
NEW HAMPSHIRE			
Concord		346	105
Mt. Washington		6267	2056
NEW JERSEY			
Atlantic City		67	20
Newark		30	9
Trenton	U	190	58
NEW MEXICO			
Albuquerque		5314	1620
Clayton		4972	1515
Roswell		3619	1103
NEW YORK			
Albany		292	89
Binghamton		1638	499
Buffalo		706	215
New York	I	87	27
New York Kennedy AP		22	7
New York LaGuardia		31	9
Rochester		555	169
Syracuse		408	124
NORTH CAROLINA			
Asheville		2170	661
Cape Hatteras	R	11	3
Charlotte		769	234
Greensboro		886	270
Raleigh		441	134
Wilmington		38	12
NORTH DAKOTA			
Bismarck		1660	506
Fargo		899	274
Williston		1905	581
OHIO			
Akron		1236	377
Cincinnati Abbe Ob.		627	191
Cleveland		805	245
Columbus		833	254
Dayton		1003	306
Mansfield		1312	400
Toledo		692	211
Youngstown		1186	361
OKLAHOMA			
Oklahoma City		1304	397
Tulsa		676	206
OREGON			
Astoria		22	7
Burns	I	4170	1271
Eugene		373	114
Meacham		4056	1236
Medford		1329	405
Pendleton		1495	456
Portland		39	12
Salem		201	61
Sexton Summit	R	3841	1171
PACIFIC AREA			
Guam Taguac	R	365	111
Johnston		17	5
Koror	R	109	33
Kwajalein		26	8
Majuro		10	3
Pago Pago		10	3
Ponape	R	151	46
Truk Moen Island		8	2
Wake Island		12	4
Yap	R	56	17
PENNSYLVANIA			
Allentown		385	117
Erie		737	225
Harrisburg		351	107
Philadelphia		28	9
Pittsburgh		1225	373
Pittsburgh	U	1017	334
Scranton		948	289
Williamsport		525	160
RHODE ISLAND			
Block Island		118	36
Providence		62	19
SOUTH CAROLINA			
Charleston		48	15
Columbia		225	69
Grnvl-Spartanburg		971	296
SOUTH DAKOTA			
Aberdeen		1300	396
Huron		1289	393
Rapid City		3168	966
Sioux Falls		1427	435
TENNESSEE			
Bristol		1525	465
Chattanooga		688	210
Knoxville		980	299
Memphis		284	87
Nashville		605	184
Oak Ridge	R	911	279
TEXAS			
Abilene		1753	534
Amarillo		3604	1099
Austin		621	189
Brownsville		20	6
Corpus Christi		43	13
Dallas Fort Worth		576	176
Del Rio		1027	313
El Paso		3916	1194
Galveston	I	54	16
Houston Intercom		108	33
Lubbock		3241	988
Midland		2862	872
Port Arthur		22	7
San Angelo		1908	582
San Antonio		794	242
Victoria		117	36
Waco		508	155
Wichita Falls		1030	314
UTAH			
Milford		5033	1534
Salt Lake City		4227	1288
Wendover		4239	1292
VERMONT			
Burlington		340	104
VIRGINIA			
Lynchburg		937	286
Norfolk		30	9
Richmond		177	54
Roanoke		1176	358
WASHINGTON			
Olympia		200	61
Quillayute		205	62
Seattle-Tacoma		450	137
Seattle		28	9
Spokane		2365	721
Stampede Pass	R	3967	1209
Walla Walla	U	991	302
Yakima		1066	325
WEST INDIES			
San Juan, P. R.		62	19
WEST VIRGINIA			
Beckley		2514	766
Charleston		951	290
Elkins		1997	608
Huntington		838	255
Parkersburg	U	637	194
WISCONSIN			
Green Bay		702	214
LaCrosse		672	205
Madison		866	264
Milwaukee		693	211
WYOMING			
Casper		5290	1612
Cheyenne		6141	1872
Lander		5558	1694
Sheridan		3968	1209

[illegible]

[illegible] mean sea level) to which station pressure values pertain in the

[illegible] CLIMATOLOGICAL DATA NATIONAL SUMMARY.

GENERAL SUMMARY OF TORNADOES, 1975

Henry Vigansky
National Oceanic and Atmospheric Administration
Environmental Data Service
National Climatic Center

The 1975 tornado season began on January 7 at 7:30 pm in Vermillion Parish, Louisiana. The tornado skipped across White Lake and hit the Union Oil Company dock at Little Prairie, injuring one person. The season ended on December 31 at 5:15 pm, in Durham County, near Durham, North Carolina. During the year a total of 918* tornadoes was reported on 204 days, killing 60 people, injuring 1,504 and causing total property damage in excess of 500 million dollars. Alaska, Idaho, New Hampshire, Puerto Rico, Rhode Island, Utah, Vermont, Virgin Islands, and Washington were the only areas to escape these devastating storms. Twenty-seven of the 918 storms were killer tornadoes.

During the year approximately 1,120 mobile homes were destroyed or damaged. Thirteen people died and 230 were injured in these mobile home disasters.

The following new records were established in 1975:

Month	State	New Record Number	Previous Record
January	United States	53	39 (1967)
	Alabama	13	5 (1974)
February	Florida	10	8 (1970)
	Oklahoma	6	4 (1961)
	New York	1	0
March	Mississippi	13	7 (1950)
	North Carolina	8	7 (1956)
	Virginia	4	2 (1969)
April	Florida	13	12 (1973)
	Louisiana	17	7 (1967)
May	Louisiana	12	10 (1950)
June	Montana	9	6 (1971)
	Virginia	4	2 (1969)
	West Virginia	2	1 (1973)
July	Maryland	6	2 (1971)
August	Delaware	2	1 (1967)
	Florida	13	8 (1974)
	Virginia	4	2 (1962)
September	Florida	9	7 (1967)
November	Iowa	9	3 (1960)
December	Iowa	1	0
	North Carolina	3	2 (1967)

* Two of these storms were border crossings.

GENERAL SUMMARY OF TORNADOES

Some of the more damaging tornadoes are described briefly in the following paragraphs:

JANUARY. Twenty-six tornadoes were reported on the tenth in Alabama, Louisiana, and Mississippi. The most devastating storm of the outbreak swept a path through Pike and Simpson Counties, Mississippi, killing nine people and injuring 210.

FEBRUARY. Six tornadoes did considerable damage on the 22nd in four southwestern Oklahoma counties; three persons lost their lives and 40 people were injured.

MARCH. A tornado touched down southwest of Warren, Arkansas, and moved to the center of the city before dissipating. Seven people were killed and 50 were injured. Property destruction was widespread with one major industrial area sustaining extensive damage. In addition, 151 buildings were destroyed, 100 sustained major damage and 200 encountered minor damage.

The "Governor's Tornado" in Atlanta, Georgia, did considerable damage to the Governor's Mansion, industrial areas, two apartment complexes, hundreds of homes and business establishments. This storm left 550 families homeless, three persons killed and 152 injured. Damage was estimated at $56.5 million.

APRIL. This month ranked first in the total number of tornado deaths this year: Louisiana 2, Missouri 5, Tennessee 3, and Texas 3.

MAY. The tornado season was in full swing this month with 188 tornadoes occurring on 30 days. Fifty of these storms occurred in Texas. Three tornadoes struck Omaha, Nebraska, on May 6 resulting in the worst tornado disaster there since Easter Sunday, 1913; three people were killed, 133 injured and damages were in excess of $0.4 billion.

JUNE. This month produced 196 tornadoes in 30 states. There were six deaths and 26 injuries. Tornadoes occurred on 26 days but none of them caused extensive damage. Florida, Illinois, Michigan, Nebraska, South Dakota, and Texas accounted for 107.

JULY. A marked decrease in tornado activity was noted in July. Seventy-six tornadoes occurred on 26 days. The outstanding tornado of the month struck Canton, Illinois, where total property loss was placed at $17-20 million. This was the first killer tornado in Illinois during the month of July since records have been kept. Two people were killed and 69 injured by this storm.

GENERAL SUMMARY OF TORNADOES

AUGUST-DECEMBER. In contrast to the previous seven months, tornadic activity was relatively light during this period. One hundred and sixty-eight tornadoes were reported causing 145 injuries and three deaths. On August 31 a man and his wife were killed near Nielsville, Minnesota; the other fatality occurred on New Year's Eve, near Ocala, Florida. Iowa had a total of nine tornadoes in November which exceeded the cumulative total of seven since 1916 for that month. The 1975 tornado season closed on New Year's Eve with two reported in Florida and three in North Carolina.

Additional information is presented in the following tables and charts. Several corrections have been made to previous totals through the continuing efforts of the National Severe Storms Forecast Center, State Climatologists, and the National Climatic Center. Changes from previous issues were applied to 1916-1974 data.

More detailed information about tornado activity can be obtained from the monthly Storm Data publications.

TORNADO SUMMARY 1975

STATE	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANN
ALABAMA													
Number	13	6	7	3	1	1				2	2		35
Days	1	2	4	3	1	1				1	1		14
Deaths	1	1											2
Injuries	72	52	3								1		128
ALASKA													
(None)													
ARIZONA													
Number												1	1
Days												1	1
Deaths													0
Injuries													0
ARKANSAS													
Number	[illegible]	6	2	6	1	1	2					1	21
Days	1	1	1	3	1	1	1					1	10
Deaths		1	7										8
Injuries	5	33	50				2					1	91
CALIFORNIA													
Number			1	2									3
Days			1	1									2
Deaths													0
Injuries													0
COLORADO													
Number					12	5	3						20
Days					6	4	2						12
Deaths													0
Injuries													0
CONNECTICUT													
Number						1	1						2
Days						1	1						2
Deaths													0
Injuries													0
DELAWARE													
Number			1	1			1	2					5
Days			1	1			1	1					4
Deaths													0
Injuries				3									3
DISTRICT OF COLUMBIA													
(None)													
FLORIDA													
Number	7	10	8	13	9	10	8	13	9	2	3	5	97
Days	4	4	4	5	8	8	8	10	6	1	2	2	62
Deaths	1											1	2
Injuries	25	10	1	1			1	3				30	71
GEORGIA													
Number	3	3	10	2	2	1			1				22
Days	2	2	4	2	1	1			1				13
Deaths		2	3										5
Injuries	16	52	169		3				8				248
HAWAII													
Number											1		1
Days											1		1
Deaths													0
Injuries													0
IDAHO													
(None)													
ILLINOIS													
Number	2		2	8	7	13	6	1			7		46
Days	1		2	3	6	7	4	1			4		28
Deaths							2						2
Injuries			2	1	3	1	69				2		78
INDIANA													
Number	1			7	2	7	1	3			[illegible]		[illegible]
Days	1			3	2	3	1	2			[illegible]		13
Deaths													[illegible]
Injuries				7				4			18		29
IOWA													
Number			1	[illegible]	12	9		2			[illegible]	1	37
Days			1	[illegible]	4	6		2			1	1	17
Deaths													[illegible]
Injuries											[illegible]		[illegible]
KANSAS													
Number				2	4	5		1	3		1	1	17
Days				1	4	2		1	1		1	1	11
Deaths													0
Injuries													[illegible]
KENTUCKY													
Number			1										1
Days			1										1
Deaths													0
Injuries													0
LOUISIANA													
Number	10	4	4	17	12	4	1	[illegible]					54
Days	4	3	3	[illegible]	5	3	1	1					21
Deaths	1			2									3
Injuries	24	4	2	26	9								65
MAINE													
Number							1						1
Days							1						1
Deaths													0
Injuries													[illegible]
MARYLAND													
Number					1	2	6	1					10
Days					1	2	4	1					8
Deaths													0
Injuries													0
MASSACHUSETTS													
Number							2						2
Days							2						2
Deaths													0
Injuries													0
MICHIGAN													
Number				2	8	10	2	3			1		26
Days				2	3	4	2	2			1		14
Deaths						1							1
Injuries				16	2								18
MINNESOTA													
Number					1	6	1	4	2				14
Days					1	4	1	3	1				10
Deaths								2					2
Injuries								1					1
MISSISSIPPI													
Number	8	4	13		7	1		1		1			35
Days	1	3	4		4	1		1		1			15
Deaths	9												9
Injuries	211	5	13		1								230
MISSOURI													
Number			1	7		1	1	1	3		2	2	18
Days			1	2		1	1	1	3		1	1	11
Deaths				5									5
Injuries			4	39		4			5				52

TORNADO SUMMARY 1975

STATE	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL
MONTANA													
Number						9		1					10
Days						5		1					6
Deaths													0
Injuries						1							1
[illegible]													
Number			2	10	22	34	5	2	1			2	78
Days			1	4	7	9	2	[illegible]	1			1	[illegible]
Deaths					3	1							[illegible]
Injuries			[illegible]		135	[illegible]							[illegible]
[illegible]													
Number								1	1				2
Days								1	1				2
Deaths													0
Injuries													0
[illegible]													
[illegible]													
[illegible]													
Number				1			2						3
Days				1			1						2
Deaths													[illegible]
Injuries													[illegible]
[illegible]													
Number					[illegible]		[illegible]						[illegible]
Days					1		[illegible]						[illegible]
Deaths													0
Injuries													0
[illegible]													
Number		[illegible]				1			[illegible]				3
Days		[illegible]				1			1				[illegible]
Deaths													[illegible]
Injuries		[illegible]							3				[illegible]
[illegible]													
Number	1	1	8		11	[illegible]	[illegible]		[illegible]	[illegible]		[illegible]	[illegible]
Days	1	1	[illegible]		[illegible]	[illegible]	[illegible]		[illegible]	[illegible]		1	22
Deaths													[illegible]
Injuries		1	[illegible]		[illegible]		1						32
[illegible]													
Number					[illegible]	[illegible]	[illegible]	[illegible]					[illegible]
Days					[illegible]	[illegible]	3	3					[illegible]
Deaths						[illegible]							1
Injuries						[illegible]							[illegible]
[illegible]													
Number				1		[illegible]	[illegible]	[illegible]	3		1		[illegible]
Days				1		[illegible]	[illegible]	[illegible]	[illegible]		1		9
Deaths													0
Injuries				[illegible]									[illegible]
[illegible]													
Number	1	[illegible]	1	1	[illegible]	[illegible]	[illegible]				[illegible]	[illegible]	[illegible]
Days	[illegible]	1	1	[illegible]		[illegible]	1				[illegible]	1	[illegible]
Deaths		[illegible]											[illegible]
Injuries		[illegible]		1		[illegible]						[illegible]	[illegible]
[illegible]													
Number								[illegible]	[illegible]			[illegible]	[illegible]
Days								1	[illegible]				[illegible]
Deaths													[illegible]
Injuries													[illegible]
[illegible]													
Number											1		[illegible]
Days											1		[illegible]
Deaths													[illegible]
Injuries													[illegible]

[illegible]

[illegible]

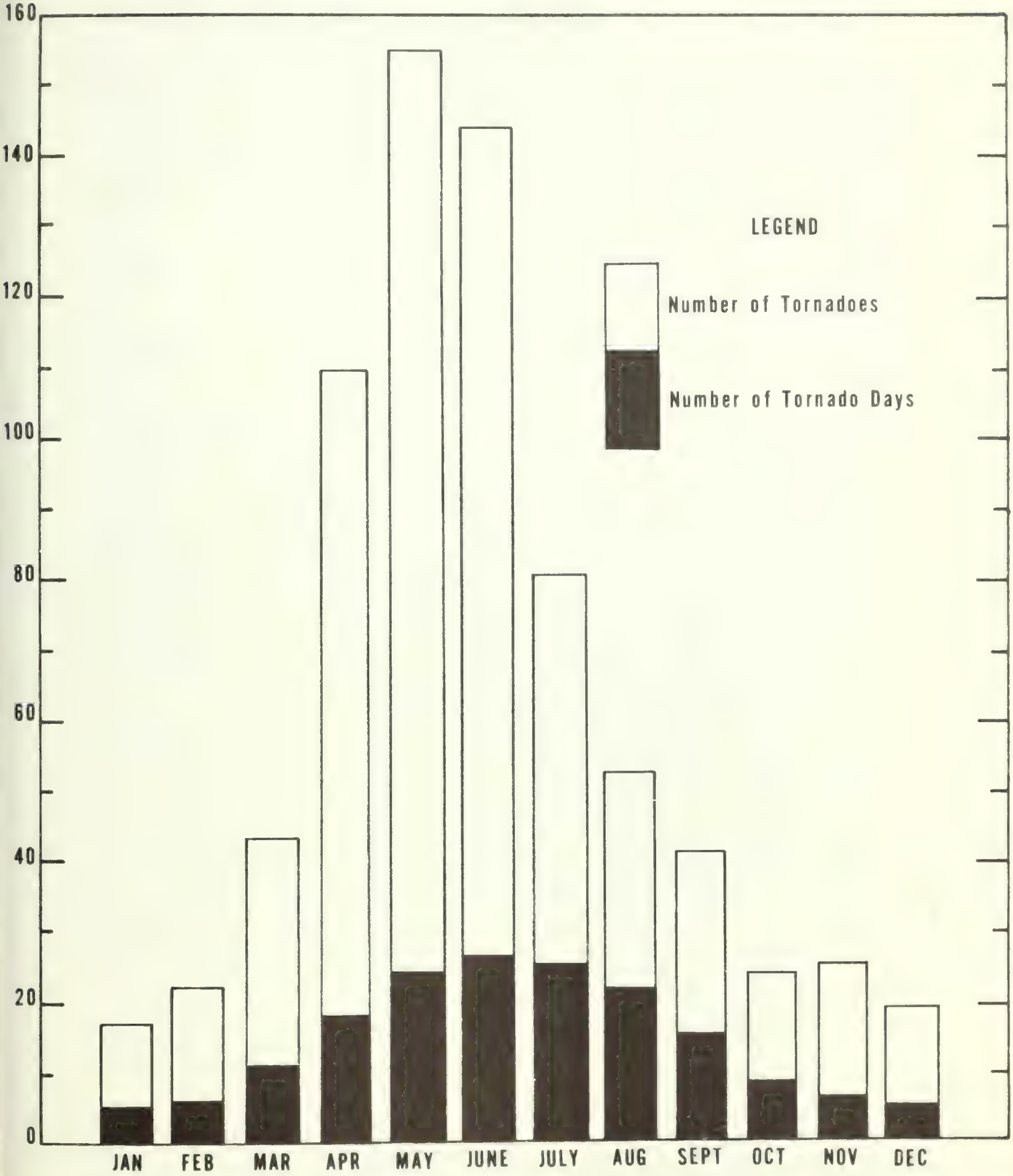
STATE	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL
PENNSYLVANIA													
Number			1	1	1	[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]		[illegible]
Days			1	1	1	[illegible]	[illegible]	1	1	[illegible]	1		[illegible]
Deaths													[illegible]
Injuries									1		[illegible]		[illegible]
PUERTO RICO (None)													
RHODE ISLAND (None)													
SOUTH CAROLINA													
Number		1	[illegible]		[illegible]		[illegible]		1		[illegible]		[illegible]
Days		1	1		1		1		[illegible]		[illegible]		[illegible]
Deaths													[illegible]
Injuries		[illegible]									[illegible]		[illegible]
SOUTH DAKOTA													
Number					9	[illegible]	1						[illegible]
Days					[illegible]	[illegible]	1						[illegible]
Deaths													[illegible]
Injuries													[illegible]
TENNESSEE													
Number		[illegible]	[illegible]	[illegible]							[illegible]		[illegible]
Days		1	[illegible]	[illegible]							[illegible]		[illegible]
Deaths				[illegible]									[illegible]
Injuries		[illegible]	[illegible]	[illegible]									[illegible]
TEXAS													
Number	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Days	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Deaths			[illegible]	[illegible]	[illegible]	[illegible]							[illegible]
Injuries			[illegible]	[illegible]	[illegible]								[illegible]
UTAH (None)													
VERMONT (None)													
VIRGINIA													
Number	1		[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]				[illegible]
Days	1		[illegible]	1		[illegible]	[illegible]	[illegible]					[illegible]
Deaths													[illegible]
Injuries	[illegible]			[illegible]									[illegible]
VIRGIN ISLANDS (None)													
WASHINGTON (None)													
WEST VIRGINIA													
Number				[illegible]	[illegible]	[illegible]	[illegible]						[illegible]
Days				1	[illegible]	1	[illegible]						[illegible]
Deaths													[illegible]
Injuries													[illegible]
WISCONSIN													
Number				[illegible]		[illegible]							[illegible]
Days						[illegible]							[illegible]
Deaths													[illegible]
Injuries													[illegible]
WYOMING													
Number					[illegible]	[illegible]	[illegible]						[illegible]
Days					1	[illegible]	[illegible]						[illegible]
Deaths													[illegible]
Injuries						[illegible]							[illegible]
TOTAL													
Number	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Days†	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Deaths	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					[illegible]
Injuries	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]

NUMBER OF TORNADOES, TORNADO DAYS, AND DEATHS BY MONTHS, 1956-75

	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE			JULY			AUGUST			SEPTEMBER			OCTOBER			NOVEMBER			DECEMBER			ANNUAL		
YEAR	NUMBER	DAYS	DEATHS	NUMBER	DAYS	DEATHS	NUMBER	DAYS	DEATHS	NUMBER	DAYS	DEATHS	NUMBER	DAYS	DEATHS	NUMBER	DAYS	DEATHS	NUMBER	DAYS	DEATHS	NUMBER	DAYS	DEATHS	NUMBER	DAYS	DEATHS	NUMBER	DAYS	DEATHS	NUMBER	DAYS	DEATHS	NUMBER	DAYS	DEATHS	NUMBER	DAYS	DEATHS
1956	2	2	0	47	12	8	31	7	1	85	15	67	79	24	4	65	21	0	91	26	1	43	20	2	16	10	0	29	8	0	7	6	0	9	4	0	504	155	83
1957	17	3	13	5	3	0	38	7	1	216	21	29	227	26	87	147	25	14	55	19	0	20	14	0	17	10	2	18	11	2	58	11	25	38	4	18	856	154	191
1958	12	7	0	20	5	13	15	10	0	76	19	4	68	21	0	127	27	42	121	30	1	46	20	1	24	14	1	9	6	4	45	6	0	1	1	0	564	166	66
1959	16	2	3	20	5	21	43	11	9	30	12	1	226	28	8	73	25	2	63	24	0	38	18	0	58	15	14	24	10	0	11	4	0	2	2	0	604	156	58
1960	9	4	0	28	10	0	28	10	0	70	20	7	201	26	34	124	27	3	43	22	0	47	23	1	22	13	0	18	10	1	25	6	0	1	1	0	616	172	46
1961	1	1	0	31	8	0	124	17	7	74	19	3	137	25	23	107	23	2	77	27	0	27	16	0	53	16	15	14	5	0	36	7	1	16	5	0	697	169	51
1962	12	3	1	25	7	0	37	9	17	41	8	1	200	22	3	171	29	0	78	26	0	51	21	6	24	11	0	11	10	0	5	4	0	2	2	0	657	152	28
1963	15	5	1	6	3	0	50	12	8	82	14	16	71	21	1	91	23	0	62	26	0	26	13	2	33	13	3	13	5	0	15	6	0	0	0	0	464	141	31
1964	14	3	10	2	2	0	36	11	6	157	23	15	135	20	16	136	24	0	63	23	0	79	23	2	25	10	0	22	4	22	17	8	0	18	5	2	704	156	73
1965	21	11	0	32	4	0	34	9	2	129	20	264	275	25	17	147	28	6	86	26	0	61	23	1	64	21	0	16	4	1	34	6	5	7	4	0	906	181	296
1966	1	1	0	28	5	0	12	6	58	80	20	12	98	17	0	126	28	19	100	27	3	58	21	0	22	13	0	29	6	6	20	3	0	11	3	0	585	150	98
1967	39	4	7	8	5	0	42	14	3	149	18	73	116	25	3	210	28	6	90	25	1	28	16	2	139	16	5	36	7	4	8	5	0	61	10	10	926	173	114
1968	5	3	0	7	3	0	28	8	0	102	15	40	145	26	72	136	27	11	56	22	2	66	23	2	25	14	0	14	9	0	44	12	3	32	9	1	660	171	131
1969	3	1	32	5	5	0	8	2	1	68	15	2	145	25	4	137	28	7	99	27	0	69	21	19	20	11	0	26	10	0	5	3	0	23	7	1	608	155	66
1970	9	5	0	16	3	0	25	12	2	117	16	29	88	19	26	134	24	6	81	26	3	55	21	0	54	20	0	50	13	6	10	4	0	14	8	0	653	171	72
1971	18	7	1	83	12	131	40	13	2	75	14	11	166	24	7	199	28	1	100	30	1	50	21	0	47	15	0	38	12	0	16	7	0	56	9	2	888	192	156
1972	33	10	5	7	4	0	69	17	0	96	20	16	140	27	0	114	25	2	115	29	0	59	23	2	49	19	0	34	10	0	17	4	2	8	6	0	741	194	27
1973	33	7	1	10	4	0	80	16	17	150	22	10	250	26	35	224	26	2	80	26	0	51	23	4	69	22	3	25	11	0	81	11	12	49	12	3	1102	206	87
1974	24	8	2	23	9	0	36	12	1	269	22	313	144	28	10	194	26	31	59	19	0	107	26	0	25	11	0	45	10	4	13	8	0	8	5	0	947	184	361
1975	53	7	12	45	12	7	84	16	12	108	20	13	188	30	5	196	28	6	76	26	2	60	25	2	34	17	0	12	7	0	40	8	0	22	8	1	918	204	60
1956-75:																																							
TOTAL	337	94	88	448	121	180	860	219	147	2174	353	926	3099	485	355	2858	520	160	1595	506	14	1041	411	46	820	291	43	483	168	50	507	129	48	378	105	38	14600	3402	2095
MEAN	17	5	4	22	6	9	43	11	7	109	18	46	155	24	18	143	26	8	80	25	1	52	21	2	41	15	2	24	8	3	25	6	2	19	5	2	730	170	105

AVERAGE NUMBER OF TORNADOES AND TORNADO DAYS EACH MONTH IN THE UNITED STATES

(Based on 14,600 Tornadoes that Occurred from 1956 - 1975)



NUMBER OF TORNADOES, TORNADO DAYS, DEATHS, AND RESULTING LOSSES BY YEARS, 1916-75

YEAR	Number Tornadoes	Tornado Days	Total Deaths	Most Deaths in Single Tornado	Total Property Losses †	PROPERTY LOSS FREQUENCY*		
						Category 5	Category 6	Category 7 and Over
1916	90	36	150	30	6	7	1	0
1917	121	38	551	101	7	21	9	0
1918	81	45	136	36	7	20	5	0
1919	64	35	206	59	7	10	2	0
1920	87	50	499	87	7	14	10	0
1921	105	55	202	61	7	22	3	0
1922	108	64	135	16	7	27	5	0
1923	102	59	110	23	6	21	1	0
1924	130	57	376	85	7	26	11	1
1925	119	65	794	689	7	34	2	1
1926	111	57	144	23	6	28	0	0
1927	163	62	540	92	7	42	9	1
1928	203	79	95	14	7	40	7	0
1929	197	74	274	40	7	48	4	0
1930	192	72	179	41	7	38	6	0
1931	94	57	36	6	6	14	1	0
1932	151	67	394	37	7	23	1	1
1933	258	96	362	34	7	46	9	0
1934	147	77	47	6	6	10	3	0
1935	180	77	71	11	6	29	0	0
1936	151	71	552	216	7	17	5	1
1937	147	75	29	5	6	24	0	0
1938	213	76	183	32	7	29	6	0
1939	152	75	91	27	7	21	3	0
1940	124	62	65	18	7	13	2	0
1941	118	57	53	25	6	24	1	0
1942	167	66	384	65	7	42	10	0
1943	152	61	58	5	7	28	8	0
1944	169	68	275	100	7	50	9	0
1945	121	66	210	69	7	21	10	1
1946	106	65	78	15	7	29	7	0
1947	165	78	313	169	7	46	7	1
1948	183	68	139	33	7	62	11	2
1949	249	80	211	58	7	54	13	0
1950	199	88	70	18	7	47	9	0
1951	262	113	34	6	7	35	11	2
1952	240	98	229	57	7	53	19	0
1953	421	136	515	116	8	63	18	7
1954	550	159	36	6	7	63	8	1
1955	593	153	126	80	7	74	13	1
1956	504	155	83	25	7	83	24	1
1957	856	154	192	44	8	129	26	3
1958	564	166	66	19	7	70	8	1
1959	604	156	58	21	7	70	4	1
1960	616	172	46	16	7	65	11	1
1961	697	169	51	16	7	103	21	1
1962	657	152	28	17	7	51	10	0
1963	464	141	31	5	7	77	15	1
1964	704	156	73	22	7	113	17	5
1965	906	181	296	44	8	126	30	11
1966	585	150	98	58	8	79	13	4
1967	926	173	114	33	8	125	33	8
1968	660	171	131	34	8	82	26	6
1969	608	155	66	32	8	98	16	3
1970	653	171	72	26	8	97	24	6
1971	888	192	156	58	8	71	30	5
1972	741	194	27	6	8	100	28	1
1973	1102	206	87	7	9	219	67	9
1974	947	184	361	34	9	166	82	25
1975	918	204	60	9	9	189	31	11
Means: 1956-75	730	170	105	---	---	106	26	5

NOTE: - - The above estimated losses are based on values at time of occurrence.

†Storm damages in categories:

5. $50,000 to $500,000
6. $500,000 to $5 million
7. $5 million to $50 million
8. $50 million to $500 million
9. $500 million and over.

* Number of times property losses reported in Storm Data in Categories 5, 6, 7 and over.

NUMBER OF TORNADOES, TORNADO DAYS, AND DEATHS BY STATES, 1956-75

STATE	TORNADOES							DAYS		DEATHS		
	TOTAL	AVERAGE	GREATEST	YEAR	LEAST	YEAR	PER # 10,000 SQ.MI.	TOTAL	AVERAGE	TOTAL	AVERAGE	PER @ 10,000 SQ.MI.
Alabama	403	20	45	1973+	5	1956	3.90	224	11	158	8	31
Alaska	1	0	1	1959	0	1975+	.00	1	0	0	0	0
Arizona	84	4	17	1972	0	1965	.37	69	3	3	0	0
Arkansas	354	18	50	1973	2	1969+	3.33	182	9	105	5	20
California	55	3	10	1958	0	1968+	.17	44	2	0	0	0
Colorado	264	13	32	1965	1	1959	1.27	190	10	2	0	0
Connecticut	35	2	8	1973	0	1969+	3.49	33	2	1	0	2
Delaware	17	1	5	1975	0	1974+	4.13	15	1	0	0	0
District of Columbia	0	0	0	-	0	-	.00	0	0	0	0	0
Florida	767	38	97	1975	12	1965	6.55	450	23	43	2	7
Georgia	438	22	46	1971+	7	1960	3.72	265	13	39	2	7
Hawaii	13	1	4	1971	0	1972+	1.01	11	1	0	0	0
Idaho	29	1	5	1967	0	1975+	.17	20	1	0	0	0
Illinois	615	31	107	1974	7	1964	5.45	281	14	115	6	20
Indiana	463	23	48	1973	6	1972	6.38	212	11	190	10	52
Iowa	549	27	54	1964	7	1956	4.88	258	13	37	2	7
Kansas	913	46	94	1964	17	1975+	5.55	408	20	62	3	8
Kentucky	179	9	34	1974	1	1975+	2.22	97	5	97	5	24
Louisiana	410	21	55	1974	5	1958+	4.22	253	13	65	3	13
Maine	61	3	11	1971	0	1964	.92	51	3	0	0	0
Maryland	48	2	10	1975	0	1970+	2.27	42	2	1	0	1
Massachusetts	93	5	12	1958	0	1959	5.63	64	3	7	0	8
Michigan	280	14	39	1974	2	1959	2.40	159	8	95	5	16
Minnesota	341	17	34	1968	5	1972	2.03	199	10	57	3	7
Mississippi	455	23	44	1973	5	1964	4.77	239	12	263	13	55
Missouri	633	32	79	1973	11	1972	4.54	301	15	113	6	16
Montana	71	4	10	1975+	0	1974+	.24	54	3	0	0	0
Nebraska	700	35	78	1975	10	1966	4.53	328	16	18	1	2
Nevada	14	1	4	1964	0	1972+	.06	12	1	0	0	0
New Hampshire	50	3	9	1963	0	1975+	2.69	44	2	0	0	0
New Jersey	37	2	8	1973	0	1972+	2.36	29	1	0	0	0
New Mexico	194	10	18	1972	2	1973+	.80	144	7	3	0	0
New York	69	3	7	1969	1	1966+	.70	61	3	2	0	0
North Carolina	219	11	38	1973	2	1970	2.08	132	7	17	1	3
North Dakota	277	14	41	1965	2	1961	1.96	171	9	12	1	2
Ohio	291	15	43	1973	3	1966	3.53	159	8	128	6	31
Oklahoma	1115	56	107	1957	30	1972+	7.97	455	23	133	7	19
Oregon	22	1	3	1975+	0	1964+	.11	18	1	0	0	0
Pacific	1	0	1	1975	0	1974+	.00	1	0	0	0	0
Pennsylvania	106	5	15	1975	0	1959	1.17	85	4	3	0	1
Puerto Rico	7	0	2	1969	0	1975+	1.02	6	0	0	0	0
Rhode Island	1	0	1	1972	0	1975+	.41	1	0	0	0	0
South Carolina	194	10	23	1973	1	1970	3.12	126	6	21	1	7
South Dakota	498	25	64	1965	1	1958	3.23	250	13	7	0	1
Tennessee	227	11	44	1974	1	1962	2.69	117	6	68	3	16
Texas	2384	119	232	1967	56	1956	4.46	975	49	161	8	6
Utah	27	1	5	1970+	0	1975+	.16	21	1	0	0	0
Vermont	21	1	5	1962	0	1975+	1.09	17	1	0	0	0
Virginia	105	5	20	1975	1	1963+	1.29	75	4	14	1	3
Virgin Islands	0	0	0	-	0	-	.00	0	0	0	0	0
Washington	23	1	4	1972	0	1975+	.17	17	1	6	0	1
West Virginia	40	2	6	1974	0	1960+	.83	32	2	1	0	0
Wisconsin	379	19	33	1964	6	1956	3.37	210	11	47	2	8
Wyoming	125	6	17	1962	0	1970	.64	98	5	1	0	0
TOTAL: United States	*14600	730	1102	1973	464	1963	2.02	†3404	170	2095	105	6

+ Also in earlier year(s).

* Corrected for boundary-crossing tornadoes.

† Tornado Days for Country as a whole.

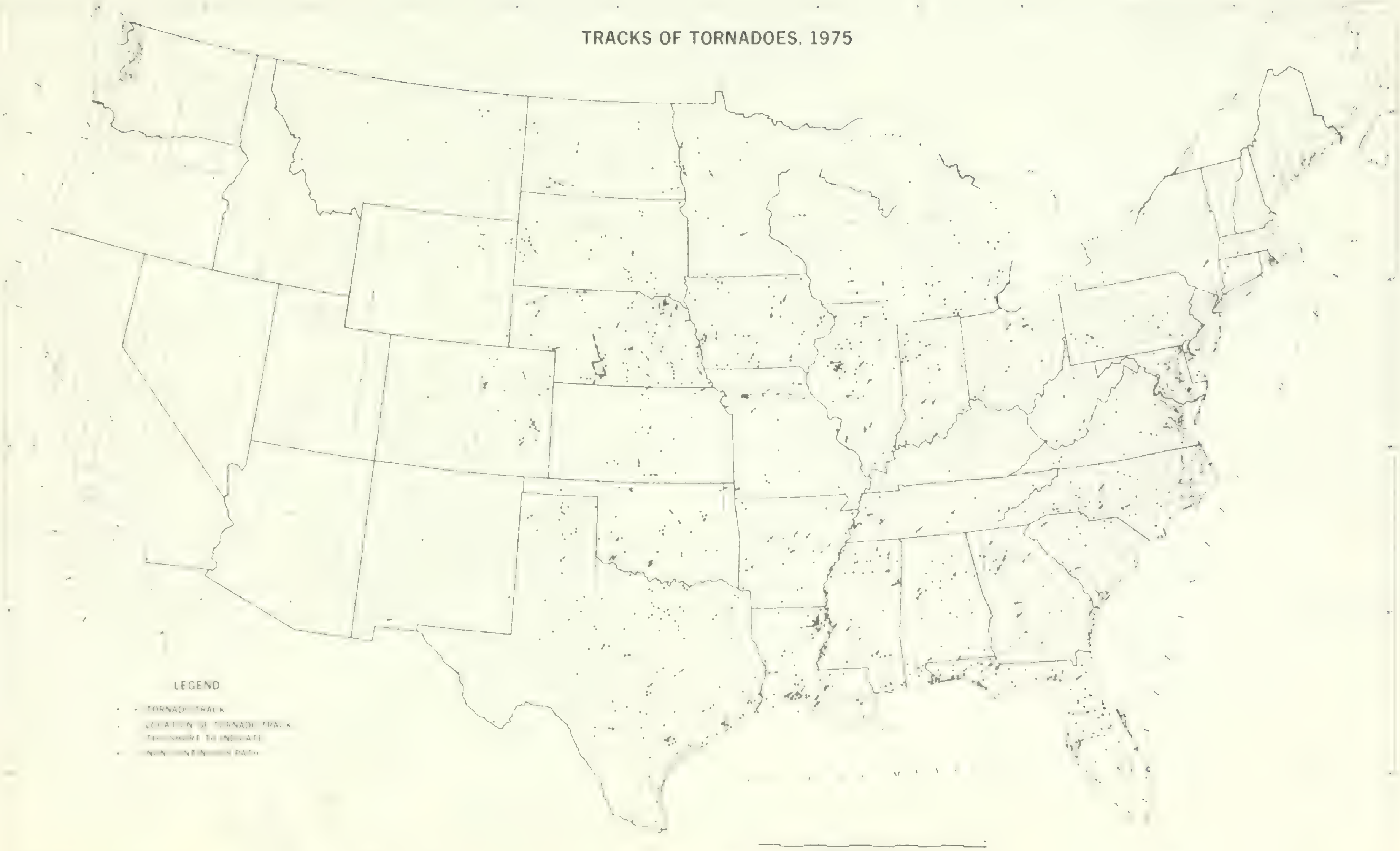
Mean annual tornadoes per 10,000 square miles.

@ Number of deaths per 10,000 square miles -- 1956-75

NUMBER OF FUNNEL CLOUDS IN 1975

STATE	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANN
Alabama	4	2	4		2	1		3					16
Alaska													0
Arizona													0
Arkansas	1	19	10	12	26	7	9	1	3				88
California		2							2				4
Colorado					11	12		3					26
Connecticut													0
Delaware													0
District of Columbia													0
Florida	3	1			16	30	9	8	16	2			85
Georgia					2	1							3
Hawaii	3	1	7	1	1	1			1			6	21
Idaho						4						1	5
Illinois	1		11	22	27	18	7	1					87
Indiana	3	1		8	27	34	18	8	3				102
Iowa				5	22	23		3					53
Kansas					4	25			5				34
Kentucky													0
Louisiana	1			3	2	2							8
Maine													0
Maryland													0
Massachusetts													0
Michigan					29	14	2	4	1				50
Minnesota				1	18	50	16	16	5				106
Mississippi	17	11	30	4	20	7	4	5	1	1			100
Missouri				12	4	2							18
Montana					3	7	1	3					14
Nebraska					13	39	5					17	74
Nevada													0
New Hampshire							1						1
New Jersey													0
New Mexico						3	5						8
New York							1						1
North Carolina			8		2	2	3					3	18
North Dakota					7		1						8
Ohio					6	7			12				25
Oklahoma				9	10	4	1	1				15	40
Oregon													0
Pacific					1								1
Pennsylvania						5		1	7				13
Puerto Rico													0
Rhode Island													0
South Carolina			16										16
South Dakota					11	34							45
Tennessee			1										1
Texas		7	2	14	57	21	19	20	9	3	2	1	155
Utah													0
Vermont													0
Virginia							2	1					3
Virgin Islands													0
Washington							1						1
West Virginia								1					1
Wisconsin						2		4					6
Wyoming						1							1
TOTAL	33	44	89	91	321	356	105	83	65	6	2	43	1238

TRACKS OF TORNADOES, 1975


LEGEND
TORNADO TRACK
LOCATION OF TORNADO TRACK TOO SHORT TO INDICATE
NONCONTINUOUS PATH

HAILSTORM LOSSES FOR PAST YEARS

Year	Property (exclusive * of crops)	Crops *	Total †
1933	–	–	7
1934	–	–	7
1935	–	–	7
1936	6	7	7
1937	6	7	7
1938	6	7	7
1939	5	6	6
1940	6	7	7
1941	6	7	7
1942	6	7	7
1943	6	7	7
1944	7	7	8
1945	6	7	7
1946	7	7	7
1947	6	8	8
1948	7	8	8
1949	7	7	7
1950	7	7	7
1951	7	7	8
1952	7	7	7
1953	7	7	7
1954	7	8	8
1955	7	7	8
1956	7	8	8
1957	7	8	8
1958	7	8	8
1959	6	7	7
1960	7	8	8
1961	8	8	8
1962	9	8	9
1963	8	8	8
1964	8	8	8
1965	8	8	8
1966	8	8	8
1967	8	8	8
1968	8	8	8
1969	8	8	8
1970	8	8	8
1971	7	8	8
1972	7	7	8
1973	7	7	8
1974	7	7	8
1975	7	8	8

* Storm damages are placed in categories varying from 1 to 9 as follows:

1 Less than $50
2 $50 to $500
3 $500 to $5,000
4 $5,000 to $50,000
5 $50,000 to $500,000
6 $500,000 to $5 million
7 $5 million to $50 million
8 $50 million to $500 million
9 $500 million to $5 billion.

NOTE.--The above estimated losses are based on values at time of occurrence.

WINDSTORM LOSSES PAST YEARS

(Windstorms other than tornadoes)

Year	Total loss of life	Total property loss †
1916	65	7
1917	25	6
1918	79	7
1919	344	7
1920	42	6
1921	65	7
1922	133	7
1923	68	7
1924	78	7
1925	88	7
1926	357	8
1927	64	7
1928	1,947	8
1929	46	7
1930	49	7
1931	17	7
1932	306	7
1933	156	8
1934	109	7
1935	461	7
1936	121	7
1937	43	7
1938	630	8
1939	60	6
1940	251	7
1941	43	7
1942	68	7
1943	61	7
1944	448	8
1945	85	7
1946	70	7
1947	117	8
1948	52	8
1949	102	8
1950	210	8
1951	289	8
1952	137	8
1953	118	8
1954	292	9
1955	301	8
1956	196	8
1957	553	8
1958	129	8
1959	145	7
1960	85	8
1961	64	8
1962	134	9
1963	54	9
1964	64	9
1965	107	9
1966	74	8
1967	48	8
1968	49	8
1969	94	9
1970	64	8
1971	76	8
1972	103	8
1973	80	8
1974	30	9
1975	103	8
	Total 10,349	

† Storm damages are placed in categories varying from 1 to 9 as follows:

1 Less than $50
2 $50 to $500
3 $500 to $5,000
4 $5,000 to $50,000
5 $50,000 to $500,000
6 $500,000 to $5 million
7 $5 million to $50 million
8 $50 million to $500 million
9 $500 million to $5 billion.

NOTE.--The above estimated losses are based on values at time of occurrence.

NORTH ATLANTIC TROPICAL CYCLONES, 1975

Paul J. Hebert
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Miami, Florida

The total of eight named tropical cyclones was below the past 30-year average of nine for the fourth consecutive year. However, the six that became hurricanes equalled the 30-year average and were the most in a single year since 1969. In addition, mariners had to contend with 26 hurricane days--the most since 1971--with the average intensity of the hurricanes also being the greatest since 1969. Figure 1 shows the tracks of the 1975 named tropical cyclones, and table 1 gives a statistical summary.

Hurricane Eloise was the most deadly and destructive Atlantic tropical cyclone of the season and the only one to make landfall in the United States. This was the fourth consecutive year with only one U. S. landfall of a named storm in contrast to a long-term average of over three. See table 3.

Three of the named storms (Amy, Doris, Hallie) exhibited subtropical characteristics during some part of their life cycle, but only Doris was designated a subtropical storm before being named. Figure 2 shows the tracks of the subtropical portion of Doris and a late season subtropical storm, and table 2 gives a statistical summary of the two storms. Since aerial reconnaissance was not available for these storms, winds in these systems were estimated by a new technique for satellite classification of subtropical storms.

TROPICAL STORM AMY, JUNE 26-JULY 4

Amy developed within a trough of low pressure which had persisted just off the southeast U. S. Coast for several days. The low-pressure system attained winds of gale force late on June 28 as the center was skirting the North Carolina Outer Banks. Winds gradually increased to a maximum of 60 kn on the 30th as the storm meandered slowly away from the U. S. mainland. It accelerated rapidly northeastward on July 3 passing some 150 mi southeast of Cape Race, Newfoundland, on the 4th while becoming extratropical.

During most of its life Amy had the characteristics of a subtropical storm. The region of maximum winds was well removed from the low-pressure center. The minimum central pressure of 981 mb occurred during this time. When winds reached gale force, however, data indicated it was more tropical than subtropical, so it was named Amy. Because of its close proximity to the coast, the name was retained throughout to avoid confusion in public releases. No attempt has been made to delineate the subtropical portions of this storm on the track charts.

HURRICANE BLANCHE, JULY 23-28

The depression which evolved into hurricane Blanche developed about 500 mi north of Hispaniola on July 23. It reached tropical storm strength, early on the 26th, while several hundred miles east of the U. S. mainland, as it was turning to the northeast ahead of an approaching cold front. However, the front weakened rapidly before cooler air could enter Blanche's circulation. Blanche reached hurricane strength during the early hours on the 27th. At this time the hurricane was at the same location crossed by tropical storm Amy 2 weeks earlier.

As high pressure built over the western Atlantic, Blanche turned toward the north-northeast, reaching its minimum central pressure of 980 mb and maximum sustained winds of 75 kn late on the 27th. The hurricane weakened only slightly before striking the southern tip of Nova Scotia on the morning of the 28th, becoming extratropical before reaching the Gulf of St. Lawrence at midday. Halifax, Nova Scotia, measured sustained winds of 45 kn with gusts of 70 kn and observed the "eye" of Blanche on radar. Damage was minor, and rainfall associated with Blanche was beneficial, ending a prolonged dry spell.

Gale warnings were issued from Rockland to Eastport, ME, at midnight on the 28th, with the Canadian Weather Service issuing a hurricane warning for Nova Scotia.

HURRICANE CAROLINE, AUGUST 24-SEPTEMBER 1

Caroline developed from a tropical disturbance which left Africa on August 15 with a closed-wind circulation first appearing when the center was about 200 mi north of Hispaniola on the 24th. The depression moved southwestward across eastern Cuba on the 25th. It gradually turned toward the west-northwest with no significant development during the next 3 days, moving into the Gulf of Mexico north of the Yucatan Peninsula by the 28th.

Satellite-determined cloud motions indicated the development of cirrus-level winds favorable for strengthening, and a reconnaissance plane found winds of tropical storm strength late on the 28th. Caroline reached hurricane force about 24 hours later and intensified rather rapidly beginning late on the 30th, as it moved steadily west-northwestward. Landfall was about 100 mi south of Brownsville, TX, on the morning of the 31st. The minimum central pressure of 963 mb and maximum sustained winds of 100 kn were reported by reconnaissance aircraft several hours prior to landfall.

A hurricane watch was issued for the Brownsville area on the morning of the 30th, with interests along the northeast Mexican coast advised of the likelihood of hurricane conditions within 24 hours. Winds gusted briefly to gale force at Brownsville, and an aerial survey revealed several small communities along the northeast Mexican coast destroyed or badly damaged.

HURRICANE DORIS (SUBTROPICAL STORM NO. 1)
AUGUST 28-SEPTEMBER 4

Hurricane Doris developed from a subtropical system in the mid-Atlantic. The initial low-pressure center developed from a frontal wave which formed, on August 27, near 31°N, 46°W. Satellite pictures showed the associated cloud mass was becoming more circular and detached from the front as the system deepened during the next 2 days. The HAHNENTOR reported gales, on the 28th and again on the 29th when the system was designated a subtropical storm.

Satelite pictures on the 30th indicated the system was becoming tropical, and that afternoon the BENSTAC, passing just south of the center, reported southwesterly winds of 60 kn and seas of 40 feet. The system was designated hurricane Doris late that day, and by the 31st a well-defined eye appeared on satellite pictures. The minimum central pressure of 965 mb and maximum sustained winds of 95 kn in Doris occurred on September 2 and were based on satellite photograph evaluation. The system's center had meandered westward, then eastward, and slowly northward during the 5-day period of August 28 to September 2. It was only 250 mi from its starting point on September 2. This slow movement, especially while Doris was a hurricane, enabled ships to easily avoid it; and no gale observations were received after August 31. On September 3, the hurricane moved northward ahead of a deepening low in the Canadian Maritime Provinces and lost all tropical characteristics early on the 4th.

HURRICANE ELOISE, SEPTEMBER 13-24

The disturbance from which Eloise formed left the African coast on September 6. The first sign that a depression had formed came, on the 13th, when the GULF HANSA reported northerly winds of 20 kn and seas of 10 feet.

Satellite pictures and ship and reconnaissance reports indicated slow intensification during the next 48 hours, and winds reached tropical storm strength early on the 16th. Eloise now intensified rapidly, and NOAA reconnaissance aircraft reported winds of minimal hurricane strength before it struck the northeastern coast of the Dominican Republic late that day. However, the main loss of life in Eloise resulted from flash floods caused by torrential rains over Puerto Rico, the Dominican Republic, and Haiti. Bulletins and advisories had warned of the impending disaster from the heavy rains more than 24 hours in advance. Fifty-nine deaths occurred in that area, with 34 in Puerto Rico; and damage was estimated at $60 million. Rainfall amounts of 10-20 inches were common over eastern and southwestern Puerto Rico with the maximum of 26.7 in near Sabana Grande in southwestern Puerto Rico.

The circulation of Eloise weakened considerably during the next 2 days as the center tracked westward across the mountainous terrain of Hispaniola and extreme eastern Cuba. By the 19th, Eloise was barely a tropical storm tracking westward toward the Yucatan Channel. Few Storms fail to intensify as they move through the Yucatan Channel into the Gulf of Mexico, and Eloise was no exception. An approaching upper-level trough in the westerlies caused Eloise to turn to the north after crossing the Yucatan Peninsula just north of Cozumel, Mexico. Eloise began a steady strengthening north of the Yucatan Peninsula, regaining hurricane force in the central Gulf of Mexico about 350 mi south of New Orleans on the morning of the 22d. Numerous ships were caught in gale-force winds as the hurricane grew in size and strength and moved through the main Gulf shipping lanes during the next 24 hours. However, the EXXON SAN FRANCISCO caught the brunt of Eloise's fury while passing through the center, on the 22d, as sustained winds reached 75 kn with gusts to 90 kn, and the pressure fell to 971.5 mb about 2300 on the 22d.

The center of Eloise passed within 17 mi of buoy EB04 with the western fringe of the eye over the buoy between 1300 and 1400. During this time, the buoys were reporting hourly. At 0300 on the 23d, the eye passed over EB10 with the center within 10 mi of the buoy. The minimum pressures recorded by the buoys were 986.7 mb at EB04 and 967.8 mb at EB10. The maximum winds were 52 kn (EB04) and 68 kn (EB10). The buoy EB10 reported a 29-feet significant wave height.

The hurricane continued strengthening until landfall about midway between Fort Waton Beach and Panama City, FL, shortly after 1200 on the 23d. It was the first direct hit by a major hurricane in that area in the 20th century! As Eloise moved inland over eastern Alabama at a forward speed of 25 kn, cooler air was drawn into its circulation, and it weakened to a tropical depression over extreme eastern Tennessee only 12 hours after landfall.

The lowest pressure of 955 mb was observed at Destin, FL. Maximum sustained winds were estimated at 110 kn. However, the highest sustained winds along the coast went unmeasured because of the sparseness of observing stations and the failure of wind measuring equipment. A sustained wind near 80 kn with a gust to 135 kn was measured on a 98-feet tower located 13 mi offshore from Panama City. Winds of hurricane force were reported from Fort Walton Beach to Panama City and northward into extreme southeastern Alabama. Gales were reported from the southeastern Louisiana Delta and New Orleans area to Cedar Key, FL, and northward over most of Alabama and western Georgia into extreme southeastern Tennessee.

Rainfall amounts ranged from 4 to 8 inches from extreme southeastern Louisiana to the Panama City area and over extreme western portions of the Carolinas. The greatest storm total was 14.9 inches at Eglin Air Force Base in Valparaiso.

Measurements of high-water marks by the U. S. Corps of Engineers, Mobile District, indicate hurricane tides of 12 to 16 feet above mean sea level occurred from just east of Fort Walton Beach to south of Panama City. The highest inside high-water mark of 18.2 feet occurred near Dune Allen Beach. Reports indicate that at least ten tornadoes occurred from northwestern Florida to western North Carolina, causing minor damage and no deaths. Table 1 summarizes the significant meteorological data. Measurements are given in the units in which they were reported.

By late on the 24th, Eloise's remnants were no longer identifiable. However, the combination of the moisture brought northward by Eloise and a stagnant frontal zone produced rainfall amounts of 5 inches or more over eastern Virginia, extreme eastern West Virginia, Maryland, New Jersey, eastern Pennsylvania, and southern New York State. Storm totals exceeded 10 inches along some of the eastern mountain slopes, triggering major flooding on the Chemung, Susquehannah, Potomac, and Shenandoah Rivers.

The combined effects of winds and tides undermined or demolished numerous structures along the beach strip from Fort Walton to Panama City. Losses will probably exceed $100 million. Four deaths were indirectly attributed to Eloise. Damaging winds over eastern Alabama caused extensive damage to property and crops with losses estimated near $100 million. Over the northeastern U. S., flooding damage was estimated at about $400 million with 15 deaths, most of which were drownings.

HURRICANE FAYE, SEPTEMBER 18-29

Satellite pictures first indicated the formation of the depression which developed into Faye about 500 mi west of the Cape Verde Islands of September 18. On the 19th, ship reports from the LEMPA indicated the depression had strengthened to a tropical storm. Faye moved steadily westward with little change in strength until the 23d at which time unfavorable cirrus-level winds caused the storm to weaken to a depression. The depression drifted northward and then westward during the next 48 hours. Cirrus-level winds became more favorable by the 25th, and Faye regained tropical storm and then hurricane strength while beginning a northwesterly course that would contunue until the 27th.

The center passed just east of Bermuda on the evening of the 26th, but damage on the Island was minor since it remained on the weak side of the hurricane. Earlier that day the BLEXEN sent a plain language message indicating the ship was very close to the center and experiencing 90-kn winds and 35-feet seas. Meanwhile, the ELSFLETH reported 35-kn gales throughout the day while heading north-northeastward and probably unaware that 48 hours later the ship would meet Faye again and endure 62-kn winds and 38-feet seas as the hurricane recurved and accelerated east-northeastward.

Faye lost tropical characteristics on the 29th but still packed plenty of punch as the SYLVO, which had earlier battled Amy, reported 55-kn winds while located about 200 mi west of the Azores. The lowest pressure reported in Faye was 977 mb and the highest wind 90 kn.

HURRICANE GLADYS, SEPTEMBER 22-OCTOBER 3

The disturbance from which Gladys evolved followed the one from which Faye formed by about 4 days. Faye took a more northerly track along latitude 20°N, while Gladys followed to the southeast along latitude 11°N. Like Faye, Gladys reached tropical depression status near longitude 35°W and tropical storm strength near longitude 40°W. However, Gladys was able to reach hurricane intensity before encountering the same unfavorable conditions that Faye had between 45°-55°W.

After weakening to a marginal hurricane by the 28th, Gladys began intensifying while following a rather typical track around the Atlantic subtropical ridge. As the hurricane turned to a northerly track slightly sooner than anticipated on October 1, the MARCONA TRADER and CORNELIA MAERSK reported hurricane-force winds of 70 kn and 64 kn, respectively. Twenty-four hours later at 1800 on the 2d, the UNION SUNRISE reported southerly winds of 60 kn as reconnaissance aircraft measured a central pressure of 939 mb and 120-kn winds about 300 mi east of Cape Hatteras, NC. This is one of the lowest recorded pressures in a hurricane that far north.

Gladys turned toward the northeast and accelerated on the 2d, moving at a forward speed of better than 45 kn, as it passed about 70 mi off Cape Race, Newfoundland, around daybreak on the 3d. Widespread gales covered the western Atlantic as Gladys merged with a strong cold front.

TROPICAL STORM HALLIE, OCTOBER 24-27

Hallie developed from a subtropical depression which had originated on October 24 in an old frontal zone off the Florida East Coast. The depression moved slowly northward parallel to and within 100 mi of the Florida and Georgia coastline, gradually acquiring tropical characteristics during this time. It reached tropical storm strength about 100 mi east of Charleston, SC, on October 26. The storm turned northeastward that evening, reaching maximum intensity of 45 kn and minimum pressure of 1002 mb while skirting the North Carolina Outer Banks. Gale warnings were issued for the outer banks, but the area remained on the weak side of the storm. However, a severe thunderstorm caused wind gusts estimated in excess of hurricane force at Frying Pan Lightship. Hallie merged with a frontal zone and became extratropical late on the 27th.

SUBTROPICAL STORM NO. 2, DECEMBER 9-13

A late season storm which evolved from an extratropical storm in the north central Atlantic exhibited characteristics of a subtropical system by December 9. The storm followed a rather unusual track, moving southward at 25 kn, between the 10th and 11th, before curving eastward and weakening rapidly on the 12th. An unidentified ship reported northwesterly winds of 60 kn as the low intensified on the 10th. The HAHNENTOR had the rather dubious distinction of encountering Subtropical Storm No. 2 at almost the exact spot where the ship had run into Subtropical Storm No. 1 (Doris) 3-1/2 months earlier!

Table 1. - Summary of North Atlantic Tropical Cyclone Statistics, 1975

Storm Name	Intensity	Date	Maximum Sustained Winds (kn)	Lowest Pressure (mb)	U.S. Damage ($ Millions)	Deaths
1. Amy	Tropical Storm	June 26-July 4	60	981		
2. Blanche	Hurricane	July 23-28	75	980		
3. Caroline	Hurricane	August 24-September 1	100	963		
4. Doris	Hurricane	August 28-September 4	95	965		
5. Eloise	Hurricane	September 13-24	110	955	650 *	U. S. - 19 Puerto Rico - 34 Hispaniola - 25
6. Faye	Hurricane	September 18-29	90	977		
7. Gladys	Hurricane	September 22-October 3	120	939		
8. Hallie	Tropical Storm	October 24-27	45	1002		

* Includes $60 million in Puerto Rico.

Table 2. - Summary of North Atlantic Subtropical Cyclone Statistics, 1975

No.	Date	Maximum Sustained Winds (kt)	Lowest Pressure (mb)
1. (Doris)	August 28-29	60	997
2.	December 9-13	60	985

Table 3.--Tropical Cyclone Data, Hurricane Eloise, September 13-24, 1975

Station	Date	Pressure (inches)		Wind (miles per hour)				Highest Tide (feet) MSL	Time	Storm Rainfall (inches)
		Low	Time+	Fastest Mile	Time+	Gusts	Time+			
FLORIDA										
Apalachicola WSO	23	29.47	0456	SW 40	0347	SW 53	0436#	4.7	0607	0.12
Bahama Beach	23							16.0		
Blountstown	23					45-50*	0630			
Cedar Key	23					41	0900	3.0		
Crestview FAA	23	28.82	0658			N 81	0641			9.48
Destin	23	28.20						10.6		
Dune Allen Beach	23							13.8		
Mexico Beach	23							11.6		
Panama City (Tyndall AFB)	23	29.23		SE 55	0723	SSE 78	0743			0.74
Panama City FAA	23					75*	0545*			
Panama City (13 nm south-98-ft tower)	23					155				
Panama City Beach	23							14.9		
Pensacola FAA	23	29.25	0605	N 32	0357	NNW 53	0623	1.8	1200	5.62
Sunnyside	23							16.2		
Tallahassee WSO	23	29.55	0656#	S 35	0928	S 48	0919			0.91
Valparaiso (Eglin AFB)	23	28.55		81[1]		115[1]				14.90
Valparaiso (Hurlburt Field)	23	28.69		67		85				13.74
ALABAMA										
Anniston FAA	23	29.15	1230			N 59	1210			1.77
Auburn ESSC	23	29.10	1030			74	1030			2.62
Birmingham WSFO	23	29.46	1257	NW 26	1209	N 35	1215			2.93
Dauphin Island	23	29.55	0430	N 39	0130	N 54	0150#			5.22
Dothan FAA	23	29.18	0900	ESE 52	0900	ESE 88	0900			1.00
Huntsville	23	29.52	1418#	N 28	1418#	N 40	1346			3.41
Mobile WSO	23	29.54	0620			N 37	22/2351#			1.74
Montgomery WSO	23	29.15	1044	NW 42	1046	NW 64	1048			5.54
Ozark (5 NW)	23			104	0855	120	0855			
Ozark (Fort Rucker)	23	28.85		S 46	0910	S 82				2.25
GEORGIA										
Atlanta WSFO	23	29.36	1500	S 42	1354	S 58	1415			0.55
Columbus WSO	23	28.94	1056	ESE 35	1056	SE 61	1115			0.44
LOUISIANA										
Boothville WSMO	23	29.64	0145			50	22/2245			4.72
Buras	22					75-80				
New Orleans WSMO	22	29.72	23/0330	N 30	2253	N 46	1743			
New Orleans FAA	22					58				
MISSISSIPPI										
Bay St. Louis	23	29.75	0545			N 40	22/2000			8.72
TENNESSEE										
Chattanooga WSO	23	29.36	1455			NE 52	1455			3.59

[1] Instrument failed

+Central Standard Time

#First of several occurrences

*Estimated

NORTH ATLANTIC TROPICAL CYCLONES FOR PAST YEARS

TOTAL NUMBER OF TROPICAL CYCLONES, LOSS OF LIFE AND DAMAGE

	Total Number Tropical Cyclones*		Total Number Hurricanes		Loss of Life		Damage by Categories**	
Year	All Areas	Reaching U. S. Coast	All Areas	Reaching U. S. Coast	Total All Areas	United States	Total All Areas	United States
1931	9	2	2	0		0		#
1932	11	5	6	2		0		#
1933	21	7	9	5		63		7
1934	11	5	6	3		17		6
1935	6	2	5	2		414		7
	58	21	28	12				
1936	16	7	7	3		9		6
1937	9	4	3	0		0		4
1938	8	4	3	2		600		8
1939	5	3	3	1		3		3
1940	8	3	4	2		51		6
	46	21	20	8				
1941	6	4	4	2		10		7
1942	10	3	4	2	17	8	7	7
1943	10	4	5	1	19	16	7	7
1944	11	4	7	3	1,076	64	8	8
1945	11	5	5	3	29	7	8	8
	48	20	25	11				
1946	6	4	3	1	5	0	7	7
1947	9	7	5	3	72	53	8	8
1948	9	4	6	3	24	3	7	7
1949	13	3	7	2	4	4	8	8
1950	13	4	11	3	27	19	7	7
	50	22	32	12				
1951	10	1	8	0	244	0	7	6
1952	7	2	6	1	16	3	6	6
1953	14	6	6	2	3	2	7	7
1954	11	4	8	3	720+	193	9	9
1955	12	5	9	3	1,518+	218	9	9
	54	18	37	9				
1956	8	2	4	1	76	21	8	7
1957	8	5	3	1	475	395	8	8
1958	10	1	7	0	49	2	7	7
1959	11	7	7	3	57	24	7	7
1960	7	5	4	2	185	65	8	8
	44	20	25	7				
1961	11	3	8	1	345	46	8	8
1962	5	1	3	0	4	4	6	6
1963	9	1	7	1	7,218+	11	9	7
1964	12	6	6	4	266	49	9	9
1965	6	2	4	1	76	75	9	9
	43	13	28	7				
1966	11	2	7	2	1,040	54	8	7
1967	8	2	6	1	68	18	8	8
1968	7	3	4	1	11	9	7	7
1969	13	3	10	2	364	256	9	9
1970	7	4	3	1	74	11	9	8
	46	14	30	7				
1971	12	5	5	3	44	8	8	8
1972	4	3	3	1	128	121	9	9
1973	7	1	4	0	16	5	7	7
1974	7	1	4	1	3,000+	1	8	8
1975	8	1	6	1	80	21	9	9
Total	427	160	247	79				
Mean	9.5	3.6	5.5	1.8				

**The Environmental Data Service has for some time recognized that, without detailed expert appraisal of damage, all figures published are merely approximations. Since errors in dollar estimates vary in proportion of the total damage, storms are placed in categories varying from 1 to 9 as follows:

1 Less than $50	4 $5,000 to $50,000	7 $5,000,000 to $50,000,000
2 $50 to $500	5 $50,000 to $500,000	8 $50,000,000 to $500,000,000
3 $500 to $5,000	6 $500,000 to $5,000,000	9 $500,000,000 to $5,000,000,000

*Including hurricanes

# Not reported in literature, believed minor.

+ Additional deaths for which figures are not available.

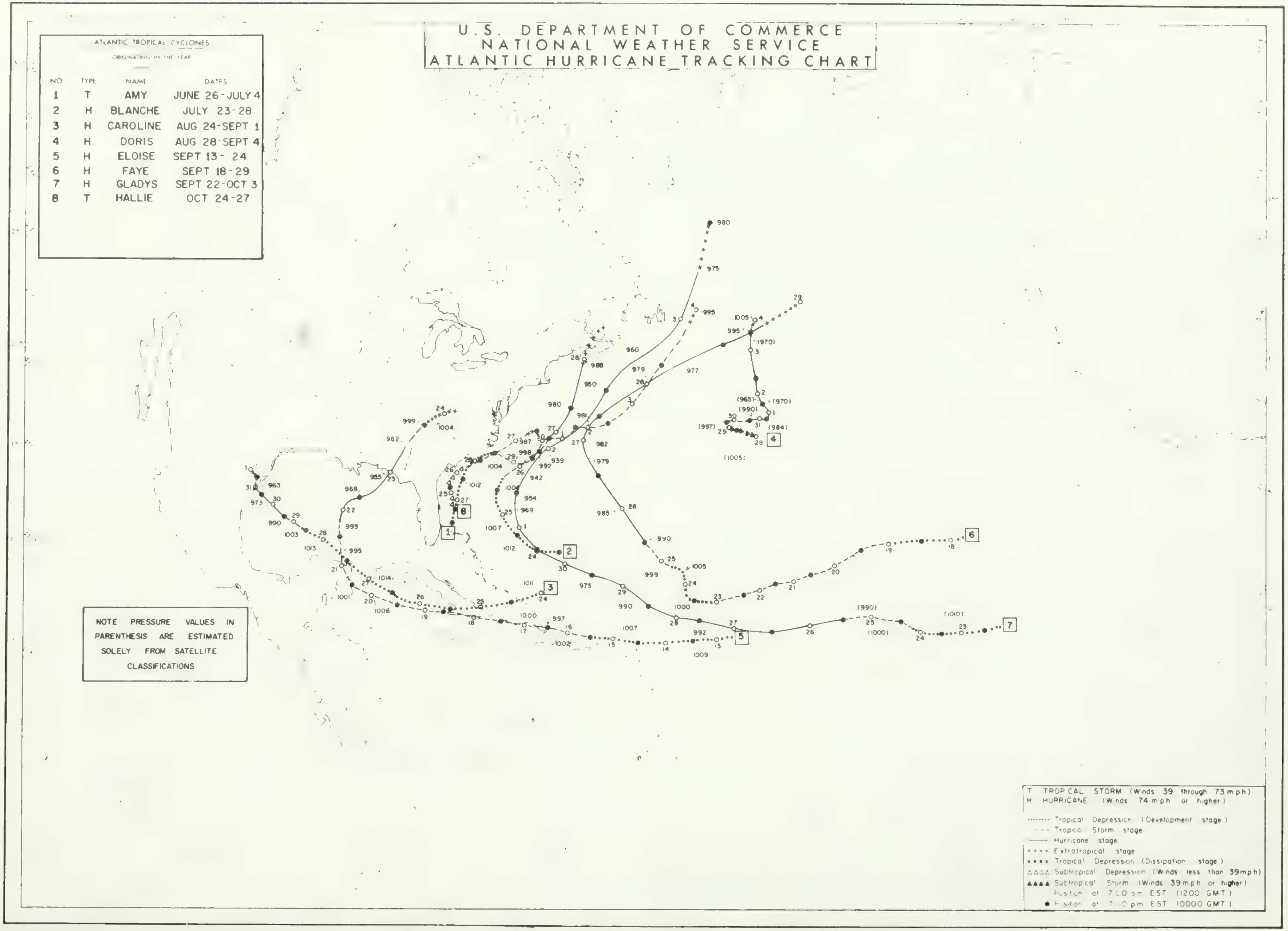
NORTH ATLANTIC TROPICAL CYCLONES FOR PAST YEARS

Frequency of Tropical Cyclones Including Hurricanes by Months and Years

		May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1931			1	1	2	3	1	1		9
1932		1			[illegible]	3	3	1		11
1933		1	1	3	7	[illegible]	3	1		21
1934		1	1	1	2	2	3	1		11
1935					3	1	2			6
1936			3	2	6	4	1			16
1937				1	2	[illegible]				[illegible]
1938					3	1	[illegible]	1		[illegible]
1939			1		1	[illegible]	2			[illegible]
1940		[illegible]			[illegible]	2	2			[illegible]
1941						4	2			6
1942					3	[illegible]		1		10
1943				1	2	4	3			10
1944				[illegible]	2	4	2			11
1945			1	1	4	[illegible]	2			11
1946			1	1	1	1	2			[illegible]
1947				1	2	[illegible]	3			[illegible]
1948		1		1	2	[illegible]	1	1		[illegible]
1949					3	[illegible]	2	1		13
1950					4	[illegible]	[illegible]			[illegible]
1951		1			[illegible]	4	2			10
1952	(Feb.) 1				[illegible]	[illegible]	2			7
1953		1			[illegible]	4	4	1	1	14
1954			1	1	2	4	1	1	1	11
1955				1	1	[illegible]	2			12
1956			1	1	1	4	1			[illegible]
1957			2		1	4	1			[illegible]
1958			1		4	4	1			10
1959		1	2	2	1	3	2			11
1960			1	2	1	[illegible]				7
1961				1		[illegible]	2	2		11
1962					2	[illegible]	1			[illegible]
1963				1	1	5	2			[illegible]
1964			1	1	4	4	1	[illegible]		[illegible]
1965			1		2	2	1			[illegible]
1966			1	4	1	4		1		11
1967					1	[illegible]	[illegible]			[illegible]
1968			[illegible]		1	2	1			[illegible]
1969				1	[illegible]	2	3	1		13
1970		1		2	1					
1971				1			1	1		
1972			1			1				[illegible]
1973				1						
1974										
1975				1						
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Frequency of Tropical Cyclones Reaching Hurricane Intensity by Months and Years

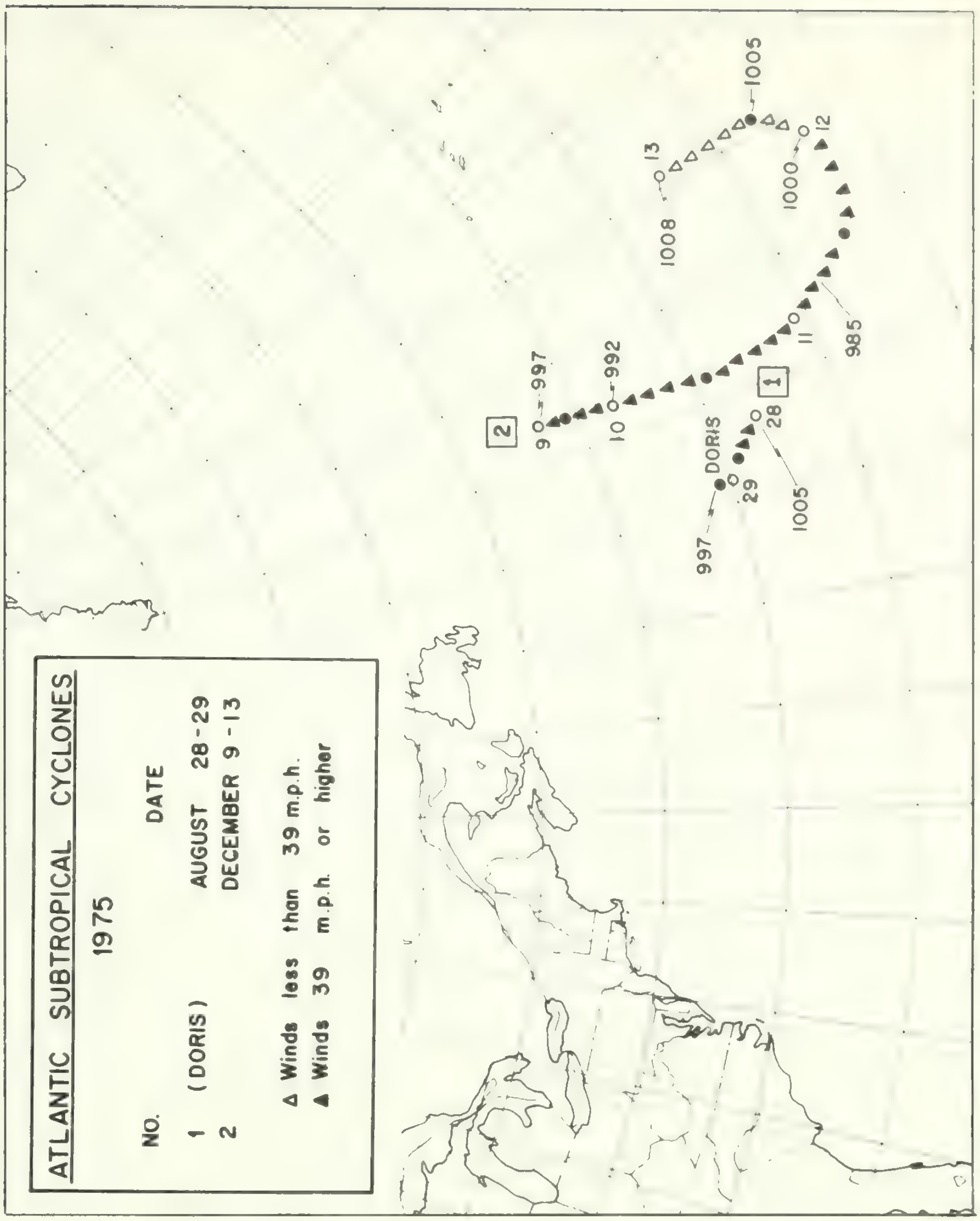
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1931					[illegible]				[illegible]
1932				3	1	1	1		[illegible]
1933		1	1	3	3	1			[illegible]
1934		1	1	1	1	1	1		[illegible]
1935				2	1	2			[illegible]
1936		1	1	3	2				[illegible]
1937					[illegible]				[illegible]
1938				[illegible]	1				[illegible]
1939				1		2			3
1940				[illegible]	[illegible]				[illegible]
1941						1			[illegible]
1942							1		4
1943			1	1	2	1			5
1944			2	1	3	1			[illegible]
1945		1		1	[illegible]	[illegible]			5
1946			1		1	[illegible]			[illegible]
1947				2	1	[illegible]			[illegible]
1948				1	3	1	1		6
1949				2	4	1			7
1950				[illegible]	3	4			11
1951	1			[illegible]	[illegible]	2			[illegible]
1952				2	[illegible]	[illegible]			6
1953				2	3	1			[illegible]
1954		1		[illegible]	3	[illegible]		1	[illegible]
1955				3	[illegible]	1			[illegible]
1956			[illegible]	1	1	1			[illegible]
1957		1			2				3
1958				3	3	1			7
1959		1	[illegible]		[illegible]	1			7
1960			1	[illegible]	[illegible]				[illegible]
1961			[illegible]		[illegible]	1	1		[illegible]
1962				1	[illegible]	1			[illegible]
1963			[illegible]	1	[illegible]	1			[illegible]
1964				[illegible]	[illegible]	1			6
1965				2	[illegible]	1			[illegible]
1966		1	3	[illegible]	1		1		[illegible]
1967				1	3	2			[illegible]
1968		[illegible]		1		1			[illegible]
1969				[illegible]	[illegible]	[illegible]	1		[illegible]
1970	1		1						[illegible]
1971					[illegible]				
1972		1		[illegible]					
1973			1			[illegible]			[illegible]
1974									[illegible]
1975			[illegible]		[illegible]				[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]


U.S. DEPARTMENT OF COMMERCE
NATIONAL WEATHER SERVICE
ATLANTIC HURRICANE TRACKING CHART
NOTE PRESSURE VALUES IN PARENTHESIS ARE ESTIMATED SOLELY FROM SATELLITE CLASSIFICATIONS
T TROPICAL STORM (Winds 39 through 73 mph)
H HURRICANE (Winds 74 mph or higher)
······· Tropical Depression (Development stage)
- - - Tropical Storm stage
—— Hurricane stage
++++ Extratropical stage
●●●● Tropical Depression (Dissipation stage)
△△△△ Subtropical Depression (Winds less than 39mph)
▲▲▲▲ Subtropical Storm (Winds 39mph or higher)
○ Position at 7:00 am EST (1200 GMT)
● Position at 7:00 pm EST (0000 GMT)
1
2
3
4
5
6
7
8

ATLANTIC TROPICAL CYCLONES
ORIGINATING IN THE YEAR

NO	TYPE	NAME	DATES
1	T	AMY	JUNE 26 - JULY 4
2	H	BLANCHE	JULY 23-28
3	H	CAROLINE	AUG 24-SEPT 1
4	H	DORIS	AUG 28-SEPT 4
5	H	ELOISE	SEPT 13 - 24
6	H	FAYE	SEPT 18-29
7	H	GLADYS	SEPT 22-OCT 3
8	T	HALLIE	OCT 24-27

Figure I



ATLANTIC SUBTROPICAL CYCLONES
1975
NO.
DATE
1 (DORIS)
AUGUST 28-29
2
DECEMBER 9-13
△ Winds less than 39 m.p.h.
▲ Winds 39 m.p.h. or higher
1
2
DORIS
28
29
997
1005
9
997
10
992
11
985
12
1000
1005
13
1008

Figure 2

TROPICAL CYCLONES IN THE EASTERN NORTH PACIFIC, 1975

Robert A. Baum
Eastern Pacific Hurricane Center, NOAA
San Francisco, Calif.

Tropical cyclone activity over the Eastern North Pacific in 1975 began June 2 and continued through November 7. It was a nearly normal season with 16 named storms and 4 tropical depressions. Of the named storms, eight developed to hurricane intensity. Table 1 shows the monthly distribution of the cyclone activity.

Advisories were issued on 87 days of the season--243 marine and military and 65 aviation advisories for tropical storms and hurricanes and 130 bulletins for tropical depressions. The distribution of cyclone activity was quite even, with only 4 days with three cyclones in progress at the same time and 19 days with two cyclones. When cyclones were in progress, bulletins or advisories were issued four times daily for each, at 6-hour intervals, 3 hr after synoptic chart times of 0000, 0600, 1200, and 1800. Amendments were issued five times during the season for changes in intensity of storms.

A comparison with cyclone activity in the recent past is shown in tables 2 and 3. The 1966-1975 period probably includes all tropical cyclone activity in the area because of the excellent satellite picture coverage during that time. Prior to 1966, cyclone occurrence was probably undetected due to the sparsity of data.

Two Air Force reconnaissance flights were accomplished--one into Agatha on June 5 and one into Olivia on October 24.

Satellite imagery supplied most of the cyclone fix and intensity data for the bulletins and advisories. Pictures at 30-min intervals from SMS-2 (Synchronous Meteorological Satellite) with full disk resolution of 4 mi and sector resolution of 2 mi gave excellent details. Intensity was calculated using the Dvorak method (Mariners Weather Log, Vol. 19, No. 4). The stability of the satellite over the Equator and good land marks make gridding of pictures accurate to within a few miles over the primary cyclone area. This resulted in accurate placement when typical features were visible. When storm development was poor, greater accuracy was available from the visible spectrum pictures than from the infrared. Greatest inaccuracies in intensity and location were experienced using infrared pictures when the cirrus shield over the cyclone was displaced from the surface circulation. This situation affected position accuracy enough to require relocation of storms eight times during the season, two of which were successive positions of tolerance indicated in the previous bulletin.

Infrared pictures were made into movie loops. The process consisted of making three exposures of each 30-min interval picture, or 44 pictures daily. Pictures were not available for 2 hr each day because of routine maintenance programs. The movie loop gave a running time of about 10 sec for the 22-hr period. It showed the progress of the storm or suspected area as well as any change in intensity. Direction and speed as well as development could be watched as the loop repeatedly fed through the projector. Loops were prepared four times daily and were available before bulletins and advisories were issued.

When storms were near the Mexican coast, merchant vessel reports were extremely valuable in helping to locate them, but only peripheral reports were received. Hopefully, this was because of the value and use of advisories and bulletins. Elsewhere, off the major shipping routes, vessels were seldom within 300 mi of the cyclone centers.

The storm tracks are shown in figures 1 and 2.

The only reported casualties were from hurricane Olivia. Tropical storm Eleanor moved onshore about 30 mi southeast of Manzanillo with 35-kn winds during the evening of July 11. Hurricanes Katrina and Lily passed a few miles southwest of Socorro Island--Katrina on September 2 with 90-kn winds, and Lily on September 18 with 75-kn winds. No reports of casualties or damage have been received.

Hurricane Olivia moved onshore near Mazatlan during the evening of October 24. Thirty thousand people were made homeless in the loss of 7,000 dwellings in Mazatlan and 14 nearby villages. Five hundred people were injured and 10 killed on shore. An additional 20 persons were lost on three shrimp boats that apparently were overwhelmed by the storm. A total of 50,000 people were removed in military vehicles from low-lying areas in and around Mazatlan before the storm hit, indicating the effectiveness of the forecasts.

The tuna boat BLUE PACIFIC encountered Olivia as she developed hurricane intensity. Some deck equipment was swept overboard or damaged by heavy seas, but when the storm passed, she was able to continue fishing.

No reports of damage to merchant vessels or their cargo have been received. A summary of the salient features of the 1975 season is included in table 4.

Reconnaissance flights contributed to the overall observation program. The June 5 flight into Agatha confirmed the fact that she was weakening. The October 24 flight into Olivia was a great help in determining the course, speed, and intensity of that hurricane.

HURRICANE AGATHA, June 2-5

A number of tropical disturbances were charted in the eastern North Pacific Ocean during the last 2 wk of May, but the areas of squalls and thunderstorms would build, die, and rebuild several hundred miles from the initial point on successive days.

An area about 250 mi southwest of Acapulco showed signs of greater instability than the others on June 1. Windspeeds of 25 kn were reported by the PRESIDENT JEFFERSON at 15.1°N, 97.3°W, at 1800. At 0000 on the 2d, the SHUNYO MARU reported an east-south-easterly 25-kn wind and a 1005.4-mb pressure in the same area. No other vessels reported in the area, but the 2345 SMS-2 photograph indicated a tropical depression with 30-kn winds, close to 13.5°N, 99°W. Film loops showed its movement to be toward the west-southwest at 12 kn. The LOW was forecast to curve westward and then northwestward, and to intensify.

When the depression reached its southernmost point, near 13.1°N, 100.4°W, at 0600 on the 3d, it increased to tropical storm intensity with 35-kn winds and was named Agatha. Further intensification took place, with winds increasing about 5 kn each 6 hr through 1800 on the 3d, during which time the storm traveled on a northwesterly course at a speed of about 10 kn. A satellite picture at 2116 showed development to hurricane intensity near 15.4°N, 103.7°W, about 150 mi southwest of Zihuatanejo, with 65-kn winds and gales out to 250 mi in the northeast quadrant and 125 mi elsewhere.

The strongest winds suggested by satellite pictures were 70 kn at 0000 on the 4th. The hurricane continued into the night but decreased to tropical storm strength at 1200. An apparent jog in the track was the result of difference in the location of the center between nighttime infrared and daytime visible-spectrum pictures.

After analyzing all the data and forming the "most probable track" of the storm, it was decided that the northeasterly movement was probably indicated as a result of a slight error in the storm's location at 0600 and 1200 on the 4th. These errors were translated to the forecast which then paced the storm onshore near Puerto Vallarta, about 0600 on the 6th. At 1800 on the 4th, a new track was developed with the storm continuing northwestward from near 18°N, 105°W.

Agatha weakened to a tropical depression at 1200 on the 5th. At 1800, the center was analyzed at 19.2°N, 106.4°W, based on 20- to 25-kn winds reported by the J. V. CLYNE, the MELVILLE, and the NORDIC HERON. The storm dissipated about 120 mi south of the Tres Marias Islands.

TROPICAL STORM BRIDGET, June 27 - July 3

A tropical depression developed about 500 mi south of the tip of Baja California, well west of the usual area of formation for tropical cyclones, at 1800 on June 27.

As usual, initial movement of the depression was uncertain, but a general westerly direction was followed at a speed of 6 kn for the first 12 hr. When the depression intensified to tropical storm Bridget, near 15°N, 111°W, at 1200 on the 28th, its course changed to northwesterly, and the speed increased to 8 to 10 kn. This movement continued as gradual intensification took place. The KOPAA, heading southeastward, sailed southwest and south of the center, on the morning of the 29th, when Bridget had 50-kn winds. The highest windspeed the KOPAA reported was 25 kn at 1800 on the 29th and at 0000 on the 30th.

Bridget changed to a westerly course at 17.3°N, 115°W, after the KOPAA passed, and then southwesterly, approaching no other vessel as a storm. The CHAOMING outran the storm westbound on July 1 and 2, reporting regularly as she traveled.

At 0600 on the 2d, Bridget became a depression near 15°N, 120°W, with 30-kn winds. Continued cloudiness, somewhat supported by reports from fishing vessels in the area, indicated that a circulation remained for several days near 14.4°N, 122.5°W, but there were insufficient data to warrant upgrading the circulation to tropical depression status.

HURRICANE CARLOTTA, July 2-11

As tropical storm Bridget passed 100 mi south of Clarion Island, headed west-southwestward, an area of squalls and thunderstorms began developing 420 mi south-southeast of Acapulco. The cloudiness was moving west at about 10 kn and was indicated in high-seas bulletins to develop as a tropical cyclone. Special bulletins were begun at 0600 on the 2d for tropical depression Three which was forecast to become a tropical storm in 24 hr. The KOPAA reported 25-kn winds in squalls 130 mi north of the center at 0900 on the 2d and 35-kn winds 150 mi northeast of the center at 1500. This report suggested that the depression had intensified to tropical storm

Further intensification was almost in textbook style. The storm was moving toward the west-northwest and northwest at 10 to 12 kn, becoming a hurricane with 65-kn winds near 12.5°N, 108.2°W, by 1800 on the 3d, and with 100- to 110-kn winds from 0000 on the 5th at 15.8°N, 111.7°W, through 1800 on the 6th at 17.3°N, 117.9°W.

Weakening began about 0600 on the 6th, but the ERIDGE reported south-southwesterly winds of 45 kn, 200 mi southeast of the center, at 1200 on the 7th, when the hurricane still contained winds of 75 kn. Tropical storm intensity began at 0000 on the 8th with 35-kn winds.

The SHINYU MARU and the DAISHIN MARU reported well south of the center at 0000 and 0600 on the 8th, but these reports indicated no more than a storm at some distance to the northwest.

The KRAIGHER B passed 120 mi north of Carlotta, at 0900 on the 9th, and had 30-kn winds until about 200 mi east of the center. She then altered course to pass south of oncoming Denise, 900 mi east-northeast of Carlotta.

Carlotta became a depression at 0000 on the 10th. The CHEVRON AMSTERDAM overtook the weakening depression during the night of the 10th, 180 mi south of the center.

HURRICANE DENISE, July 4-15

No other vessels were near the center of a large unstable area, near 11°N, 93°W, at 1800 on the 4th, but reports from the AMERICAN LANCER, CHEVRON AMSTERDAM, KOPAA, and SAN JUAN EXPORTER indicated a circulation had developed. The depression was followed west and northwestward on satellite pictures and charted as a tropical depression with the aid of peripheral reports from the AMERICAN LEADER, ASTRID BAKKE, CEDARBANK, CHEVRON AMSTERDAM, MARITIME JET, RICE QUEEN, SANTA MAGDALENA, and the UNIWERSYTEL WARZAWSK, through 1800 on the 6th, near 13°N, 101°W.

At 0000 on the 7th, the depression intensified to tropical storm Denise, with 45-kn winds reported by PGXY, 30-kn winds by the EURYBATES, and 20-kn winds by the PRUD OCEANJET. As the storm reached 15°N, 103°W (200 mi south of Manzanillo), at 0000 on the 8th, its course changed to more westerly. At this time the storm was considered a hurricane. Although winds along the coast, from Cape Corientes to Acapulco, are normally strong southeasterlies under these circumstances, they were reported as only 15 to 25 kn. The hurricane steadily increased in intensity to 120 kn, by 1200 on the 9th, with the strongest reported winds of only 30 kn by the PLEIAS and the FIDELITY R at 1800 on the 9th. The course of the hurricane then changed to southwesterly, and it weakened slowly. The PSDY sent a SHRED report of northwesterly winds of 45 kn from 150 mi west of the center at 0000 on the 10th. The storm continued southwestward, slowly weakening and becoming nearly stationary, from 1800 on the 10th to 0600 on the 11th, near 13.7°N, 113.5°W. After the 12-hr "stationary" period, Denise began moving northwestward at about 10 kn.

At 1800 on the 11th, the CABRILLO, a tuna boat just off Clarion Island, was headed southwestward as Denise, with 80-kn winds some 200 mi to the south, was moving northwestward. The CABRILLO, aware of the location and intensity of the storm, contacted the Hurricane Center for information and advice. The storm and boat were on an intercept course with the meeting scheduled for 0500 on the 12th. The advice was to sail east for 6 to 12 hr and then resume the southwesterly course. The CABRILLO reports regularly in the Tuna Fleet and is an old hand at evading tropical cyclones.

At 0000 on the 12th, the CETRA LYRA was about 100 mi east of the hurricane and moving northwestward at about the same speed as Denise. She reported 40-kn winds. These increased to 60 kn, by 0000 on the 13th, when the CETRA LYRA reported the lowest pressure in the storm--993 mb. She altered her course to pass 120 mi south of the center, at 1800 on the 13th, with 30- to 40-kn winds.

By the time Denise reached 19.7°N, 118.7°W, she had weakened to tropical storm intensity, and she became a depression near 20.6°N, 119.2°W, at 1800 on the 14th, and dissipated 6 hr later.

TROPICAL STORM ELEANOR, July 10-12

A persistent area of thunderstorms 120 mi south of Acapulco, at 1800 on the 10th, led to issuing a bulletin on tropical depression Six. Movie loops of satellite pictures showed cyclonic circulation with signs of intensification, so the depression was upgraded to tropical storm Eleanor. Acapulco reported 30-kn winds, at 1200 and again at 1800 on the 10th, but vessels reporting in the area were not numerous enough to pinpoint the location of the center.

Eleanor moved north-northwestward for 6 hr, northward for 18 hr, and then northward to go onshore near Manzanillo, at about 0500 on the 12th. At 0000, the LUDWIGSHAFEN reported a 998.6-mb pressure about 75 mi southeast of the center, and the FERNFIELD reported 30-kn winds 30 mi south of the center. Manzanillo reported westerly 15-kn winds 20 mi northwest of the center.

No damage was reported to vessels, and it is not believed rainfall was heavy enough to cause more than minor damage to shore installations.

TROPICAL STORM FRANCENE, July 27-30

Tropical storm Francene began as a disturbance near 11.5°N, 95°W, about 1200 on July 25, moving northwestward at 20 kn, with winds of 30 kn in squalls. The disturbance continued on a northwesterly track but slowed as it organized and intensified to tropical depression Seven, at 0600 on the 27th, near 16.4°N, 102.8°W. The track became more westerly, and the depression developed to tropical storm Francene near 16.5°N, 103.7°W, at 1200 on the 27th. A westerly movement continued for 24 hr when Francene weakened to a depression. The depression curved northwestward, and its speed increased to 15 kn as weakening continued. By 0000 on the 30th, only a minor circulation was indicated in satellite pictures, so bulletins were discontinued. A tropical disturbance was indicated in high-seas bulletins for another 12 hr; then even these were dropped.

TROPICAL STORM GEORGETTE, August 10-13

Georgette began as a tropical depression about 700 mi southwest of Cape San Lucas, late on August 10. She was headed westward at about 5 kn with 25-kn winds. Tropical storm intensity was reached 24 hr later, at 1800 on the 11th, near 14.4°N, 119.5°W, where the course curved gently northward, and the speed increased to 8 to 10 kn. Maximum winds of 40 kn were indicated from 0600 on the 12th to 0000 on the 13th, when slow weakening began.

The track then curved westward again with forward speed of 10 to 12 kn. When the storm reached 17.4°N, 125.3°W, at 0600 on the 13th, the intensity dropped to depression stage. Further weakening continued through 0600 on the 14th, when bulletins were discontinued.

No reporting vessels approached nearer than 300 mi of the cyclone.

TROPICAL STORM HILARY, August 12-17

The gradual organization of a tropical disturbance, near 11°N, 103°W, was noticed in satellite pictures on August 11. A circulation had developed by 1800 on the 12th. It was moving west-northwestward at 8 to 10 kn, and tropical depression Nine formed near 11.4°N, 107°W, with 30-kn winds in squalls and thunderstorms near the center.

The depression increased to tropical storm intensity and was named Hilary at 0600 on the 13th. Winds of 40 kn were estimated from satellite pictures, and the center, moving northwest at 10 kn, was indicated near 12°N, 109.5°W. The northwesterly movement continued, and its forward speed increased to 14 kn as winds near the center increased to 50 kn, at 0000 on the 15th, near 16.5°N, 116°W.

Weakening followed the northwestward acceleration, with the center reaching 20.3°N, 121.7°W, at 1200 on the 16th, when the storm became a depression with 30-kn winds. The center began curving west-northwestward as weakening continued. Dissipation was near 21°N, 124°W, at 1200 on the 17th.

Gale winds were reported by an unidentified vessel with 1007-mb pressure about 100 mi northwest of the center, at 0000 on the 13th, while the cyclone was still classified as a depression. The GALILEO GALILEI, 150 mi south of the center, reported 15-kn winds at 0600 on the 13th. No other vessels reported within the circulation of the cyclone.

HURRICANE ILSA, August 18-26

A disturbance that apparently crossed Central America between 8° and 13°N was followed west-northwestward from near 7°N, 83°W, beginning August 16. It was moving at about 20 kn, and a weak circulation was suggested by reports from the AMERICAN AQUARIUS and the DEVON CITY. Reports from the RIGOLETTO and DEVON CITY, at 1800, indicated it had had moved to 9°N, 89°W, but the windspeeds reported reported were only 5 to 10 kn. By 1200 on the 17th, the disturbance was indicated by satellite pictures to be near 12°N, 94°W, and the windspeeds had increased to 10 to 20 kn at points 100 to 150 mi of the center of the shower and thunderstorm activity. Six hours later, the PORTMAR AND ELISABETH BOLTEN added their reports indicating further intensification.

By 0000 on the 18th, reports from the UNIQUE FORTUNE indicated that tropical depression Ten had formed near 12.1°N, 95.8°W, and was moving west-northwestward at about 8 kn. By 1200 on the 18th, the depression had intensified to tropical storm Ilsa, near 12.3°N, 97°W. Movement continued west-northwestward 10 kn, but a more westerly track was was observed as intensification took place. The storm became a hurricane near 14°N, 104°W, at 0000 on the 21st, on a course of 280° at 9 kn.

Intensification continued with winds reaching 85 to 95 kn from 1200 on the 22d through 0600 on the 25th. Ship reports were few. A Chinese vessel reported 30- to 40-kn winds as it passed 200 mi south of the center on the 23d.

The track curved northwestward at 10 kn, from 1800 on the 22d through 1800 on the 24th, then westward again. Weakening began at 0600 on the 25th and was rapid. Ilsa became a tropical storm near 19.7°N, 126.1°W, at 0000 on the 26th, and a depression by 1800 near 20.3°N, 129.9°W.

The remnants of Ilsa were followed westward in satellite pictures and with the aid of reports from the AVOCET, CHAO MING, HAWAIIAN MONARCH, MALLORY LYKES, MATSONIA, ORONSAY, PRINCE MARU No. 7, SHOZEN MARU, and the SILVEROON to near 29°N, 153°W, by 1800 on the 31st, but no reports were for more than 25-kn winds.

Tropical storm appearance began again on September 3 when VHRR (Very High Resolution Radiometer) pictures showed an intense circulation, complete with an eye, near 38°N, 158°W, and 35-kn winds were reported by the HAGOROMO MARU at 1800, 45-kn winds by the PLUVIUS, and 35-kn winds by the TRANSCOLORADO at 0000 on the 4th. At 0600 on the 4th, 55-kn winds were reported by the TRANSCOLORADO. The LOW moved northeastward and dissipated in the Gulf of Alaska.

HURRICANE JEWEL, August 23-31

While Ilsa was churning her way northwestward, 400 mi southwest of Cape San Lucas, a tropical disturbance formed about 300 mi south of Acapulco. Initial reports from the PRUD OCEANJET and the KRYPTOS indicated winds to 30 kn in squalls, at 1800 on the 23d, and suggested tropical depression Eleven had formed. The depression was moving west-northwestward at 12 kn, but slowed to about 5 kn by 1800 on the 25th, forming tropical storm Jewel during the deceleration.

The course changed to westerly at 5 to 8 kn, and intensified to a marginal hurricane by 1200 on the 27th. Slow weakening and acceleration west-northwestward continued, through 0000 on the 31st, to tropical depression strength near 19°N, 126.2°W. Bulletins on the depression were discontinued after 1200 on the 31st, but remnants of the circulation were still visible in satellite pictures until September 3.

TROPICAL CYCLONES IN THE EASTERN NORTH PACIFIC

HURRICANE KATRINA, August 28 - September 7

Tropical storm Jewel was working her way westward some 400 mi southwest of Cape San Lucas, and Ilsa was a tropical depression 1,000 mi each of Honolulu, at 1800 on the 28th, when a rapidly developing tropical depression formed 400 mi south of Acapulco. Successive satellite pictures of Katrina indicated a west-northwesterly 10-kn movement, and hurricane intensity was forecast within 48 hr, but was reached sooner, at 1800 on the 29th, near 11.5°, 103.7°W.

The track of Katrina turned more northwesterly, and gradual intensification continued. Winds of 80 kn were indicated when the center was 150 mi southeast of Socorro Island at 1200 on September 1, and 115 kn when the center was 180 mi northeast of Socorro Island at 1200 on the 3d.

Following the peak intensity, at 1200 on the 3d, weakening began, and the course became westerly. The hurricane was downgraded to a tropical storm, at 0600 on the 5th, near 21.8°N, 121.1°W. Dissipation was almost as rapid as its earlier development. Tropical depression stage was reached, by 1200 on the 6th, and bulletins were discontinued at 0000 on the 7th.

HURRICANE LILY, September 15-21

Rain and easterly wind at Acapulco, at 1200 on September 15, suggested a tropical disturbance offshore. The 1800 reports from the DEVON CITY, MARITIME ACE, and JOHAN U verified a circulation center near 16°N, 102°W, moving westward at 10 kn, and forecast to be a tropical storm within 24 hr. It took only 18.

Satellite pictures included enough features to consider Lily a tropical storm about 150 mi south of Manzanillo, by 1800 on the 16th, with winds estimated at 35 kn. Soon after forming, Lily curved slightly northwestward, slowed to about 5 kn for 30 hr, and increased in intensity to 50 kn, by 0000 on the 18th, 200 mi southwest of Manzanillo.

A west-northwesterly track continued with no surface vessels reporting near the storm. At 1800 on the 18th, Socorro Island reported a northeasterly wind of 30 kn. When the center was 60 to 75 mi to the southeast, Lily was upgraded to a hurricane.

Socorro Island reported easterly winds which increased to 70 kn, by 0000 on the 19th, as Lily passed to the south and west of the Island. The storm was then moving west-northwestward at about 12 kn.

That track continued as the hurricane slowly weakened to a tropical storm with 60-kn winds, at 1200 on the 20th, and to a tropical depression with 25-kn winds, 24 hr later, near 22.5°N, 126°W. The remains of Lily drifted west-southwestward in the northeast trades, and all traces of her were lost by the 24th.

TROPICAL STORM MONICA
September 28 - October 2

Three tropical disturbances were indicated in satellite pictures at 1800 on September 27. They were centered near 13°N, 125°W; 11°N, 115°W; and 14°N, 106°W; and were moving westward at 10 kn. The disturbance that was initially near 125°W dissipated by 0600 on the 28th. The IRISH MAPLE, at 11°N, 114°W, at 0000 on the 28th, reported southwesterly winds of 10 kn and, slowly closing on the disturbance, reported southwesterly winds of 15 kn about 75 mi from the center of activity, which was estimated near 12°N, 117°W, at 0600. The IRISH MAPLE's pressure had been falling at a rate of 1 mb per hr, and the wind had increased to 40 kn by 1800, indicating tropical storm Monica had formed.

The storm continued tracking westward at about 12 kn, passing near the OCEANOGRAPHER at 0600 on the 29th. The IRISH MAPLE reported 30-kn winds about 100 mi from the center, near 12.3°N, 123°W, at 1800 on the 29th, as Monica continued to travel on a course a little north of west. The strongest wind in the storm was 45 kn indicated by satellite pictures, at 1800, near 13°N, 123°W.

Monica continued westward to 13.9°N, 126.5°W, by 0600 on October 1, when she was downgraded to a depression, and bulletins were discontinued. The disturbance continued westward giving the WESER heavy rain and 25-kn winds on the 2d.

After that, the remains could be seen in pictures as the disturbance moved to 17°N, 140°W, by 1800 on the 6th. The KISHU MARU, NECTARINE CORE, and PHILIPPINE BEAR reported near the cloud cover but suggested no circulation in their observations.

TROPICAL STORM NANETTE
September 28 - October 4

The easternmost tropical depression, near 14°N, 106°W, at 1800 on September 27, was relocated farther south near 12.8°N, 107°W, at 1200 on the 28th. It moved generally westward at 8 to 10 kn and increased in intensity to become tropical storm Nanette, near 12.8°N, 110.1°W, while slowing slightly and curving a little south of west.

The southernmost point in the track was reached, at 1200 on the 30th, near 12.2°N, 111.8°W, after which a northwesterly and westerly track at about 10 kn continued through 0600 on October 3. Gradual intensification continued to 45 kn at 1800 on October 1 through 0600 on the 3d.

Weakening was as slow as the generation. Winds of 40 kn continued near the center until 0600 on the 3d, at 15°N, 122.5°W, when a southwesterly track began. By 0000 on the 4th, the storm became a disturbance, near 14°N, 125°W, and bulletins were discontinued.

No vessels were near enough to the storm to report any significant weather. If it were not for satellite pictures, it is doubtful that Nanette would have been detected.

HURRICANE OLIVIA, October 22-25

Satellite pictures showed three areas of concentrated thunderstorm activity, near 13°N, 106°W, early on October 21. By afternoon, the PORTUGAL MARU and SAPPORO MARU with 1006-mb pressures, 120 and 200 mi from the center, suggested a circulation had formed. By 0600 on the 22d, tropical storm intensity was indicated in high-seas bulletins and advisories.

Further development was slow, and its movement was toward the northwest at about 12 kn to near 15°N, 111°W, by 1800 on the 22d. The circulation was well developed as indicated by reports from the PORTUGAL MARU, SAPPORO MARU, OCEAN HAPPINESS, and Socorro Island, all about 200 mi from the center. The storm was forecast to move west-northwestward and to intensify. By 0000 on the 23d, it became apparent that the track was more northerly, and a vessel reported east-southeasterly 60-kn winds at 1800, at 16.8°N, 109.7°W, about 75 mi northeast of the center.

The tuna boat, BLUE PACIFIC, ran afoul of Olivia near 17°N, 110°W, at 0000 on the 24th, and reported 75-kn winds with gusts to 90 kn and the loss of much deck equipment from heavy seas.

The hurricane continued curving northeastward and began to accelerate. Air Force reconnaissance, at 1322 on the 24th, reported southeasterly 79-kn winds at 9,200 ft in the southeast wall of the elliptical eye near 20°N, 109.6°W.

Northeasterly movement of the hurricane became stable at about 12 kn. The CUFIC and a Mexican Coast Guard boat reported 50-kn winds some distance from the center, as the hurricane moved toward the coast during the afternoon of the 24th.

The hurricane moved onshore, between 0400 and 0500, a few miles south of Mazatlan on the 25th. Newspaper reports indicated 50,000 people were evacuated from low-lying areas before the hurricane struck; 30,000 people were left homeless by the destruction of 7,000 dwellings in or near Mazatlan; 500 were injured and 30 killed as a result of heavy rains and 138 mi/hr winds. Twenty of the fatalities were crewmen of three shrimp boats which were lost. Monetary losses have been tentatively set at $20 million, of which $4 million was in beach and tourist areas.

Ship reports and satellite pictures made possible the positive forecasting of the storm during the 18 hr prior to its moving onshore. While damage and suffering were considerable, without the early warning, they would have been greater.

TROPICAL STORM PRISCILLA, November 2-7

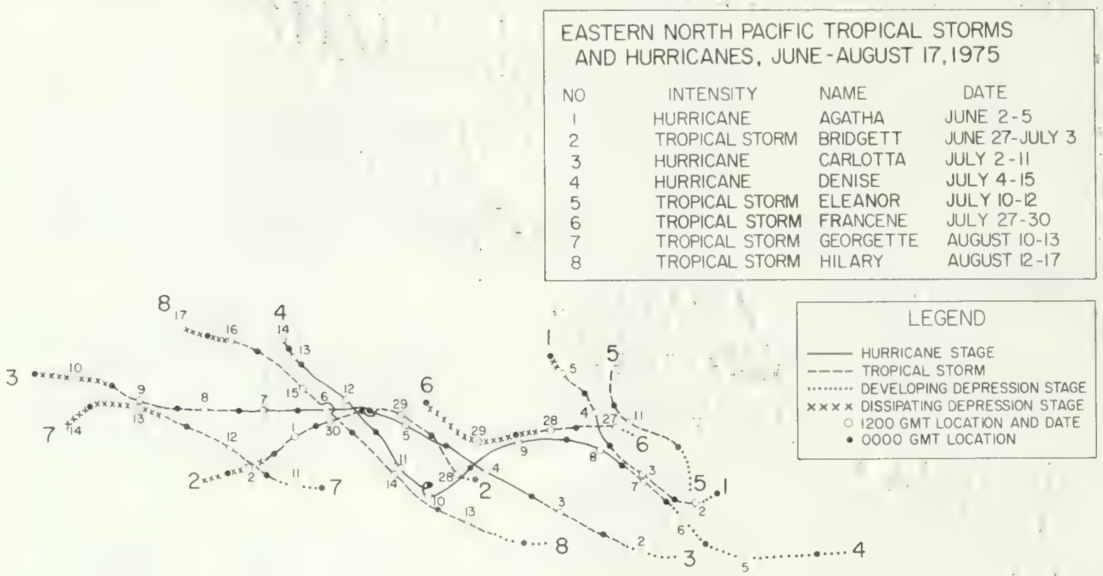
A portion of a cloud mass that crossed Honduras and Guatemala during the last week in October began to organize near 11°N, 97°W. As best as could be determined this mass of clouds remained stationary for about 18 hr, then drifted slowly north for 12 hr, gradually increasing in intensity to a depression with 30-kn winds.

As soon as a circulation was well established, the depression moved west-northwestward becoming tropical storm Priscilla, at 13.2°N, 101.6°W, at about 0600 on the 4th. The track continued in the same direction, passing 120 mi northeast of the ABEL TAS-MAN, at 0000 on the 5th, and continued to 15.3°N, 105.6°W, with 45-kn winds by 0600 on the 5th.

The storm was forecast to continue northwestward and then curve northward, but recurvature never occurred. After 0600 on the 5th, a more westerly track developed and winds of 55 kn were estimated from satellite pictures.

The SOUTHWEST CAPE reported northerly 30-kn winds 75 to 80 mi west of the center, which was near 15.6°N, 110.3°W, at 0000 on the 6th. The storm then headed northwestward, toward Clarion Island, but dissipated 100 mi short of landfall at 0000 on the 7th.

Tracks of Eastern North Pacific Tropical Storms and Hurricanes

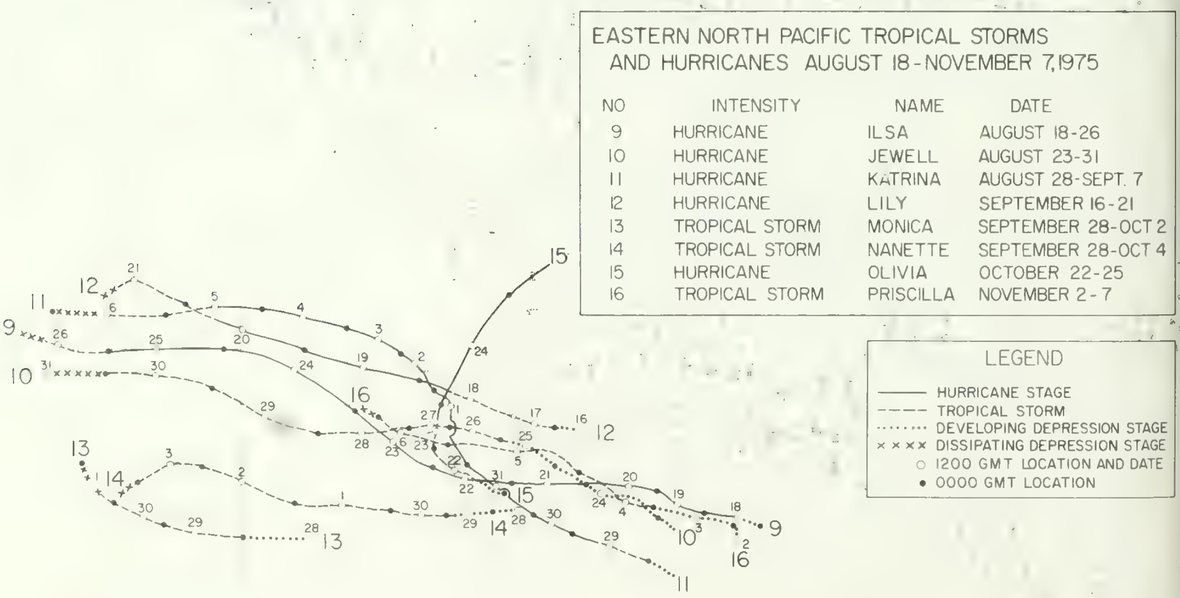


EASTERN NORTH PACIFIC TROPICAL STORMS AND HURRICANES, JUNE-AUGUST 17, 1975

NO	INTENSITY	NAME	DATE
1	HURRICANE	AGATHA	JUNE 2-5
2	TROPICAL STORM	BRIDGETT	JUNE 27-JULY 3
3	HURRICANE	CARLOTTA	JULY 2-11
4	HURRICANE	DENISE	JULY 4-15
5	TROPICAL STORM	ELEANOR	JULY 10-12
6	TROPICAL STORM	FRANCENE	JULY 27-30
7	TROPICAL STORM	GEORGETTE	AUGUST 10-13
8	TROPICAL STORM	HILARY	AUGUST 12-17

LEGEND
—— HURRICANE STAGE
– – – TROPICAL STORM
········ DEVELOPING DEPRESSION STAGE
×××× DISSIPATING DEPRESSION STAGE
○ 1200 GMT LOCATION AND DATE
● 0000 GMT LOCATION

Figure 1



EASTERN NORTH PACIFIC TROPICAL STORMS AND HURRICANES AUGUST 18-NOVEMBER 7, 1975

NO	INTENSITY	NAME	DATE
9	HURRICANE	ILSA	AUGUST 18-26
10	HURRICANE	JEWELL	AUGUST 23-31
11	HURRICANE	KATRINA	AUGUST 28-SEPT. 7
12	HURRICANE	LILY	SEPTEMBER 16-21
13	TROPICAL STORM	MONICA	SEPTEMBER 28-OCT 2
14	TROPICAL STORM	NANETTE	SEPTEMBER 28-OCT 4
15	HURRICANE	OLIVIA	OCTOBER 22-25
16	TROPICAL STORM	PRISCILLA	NOVEMBER 2-7

LEGEND
—— HURRICANE STAGE
– – – TROPICAL STORM
········ DEVELOPING DEPRESSION STAGE
×××× DISSIPATING DEPRESSION STAGE
○ 1200 GMT LOCATION AND DATE
● 0000 GMT LOCATION

Figure 2

Table 1.--Monthly distribution of Eastern Pacific tropical cyclones, 1975.*

	May	June	July	Aug.	Sep.	Oct.	Nov.	Total
Tropical storms	0	1	2	2	2	0	1	8
Hurricanes	0	1	2	3	1	1	0	8
Total	0	2	4	5	3	1	1	16

*Cyclone ascribed to the month in which it began.

Table 2.--Frequency of Eastern Pacific tropical storms and hurricanes combined by months and years.*

Year	May	June	July	Aug.	Sep.	Oct.	Nov.	Total
1966	0	1	0	1	6	2	0	13
1967	0	3	4	4	3	3	0	17
1968	0	1	4	8	3	3	0	19
1969	0	0	3	2	4	1	0	10
1970	1	3	6	1	1	2	1	18
1971	1	1	7	4	2	2	1	18
1972	1	0	1	6	2	1	1	12
1973	0	3	4	1	3	1	0	12
1974	1	3	3	6	2	2	0	17
1975	0	2	4	5	3	1	1	16
Total	4	17	36	44	29	18	4	152
Average	0.4	1.7	3.6	4.4	2.9	1.8	0.4	15.2

*Cyclone ascribed to the month in which it began.

Table 3.--Number of Eastern Pacific tropical storms reaching hurricane intensity by months and years.*

Year	May	June	July	Aug.	Sept.	Oct.	Nov.	Total
1966	0	1	0	1	2	0	0	7
1967	0	1	0	2	1	2	0	6
1968	0	0	0	3	2	1	0	6
1969	0	0	1	1	1	1	0	4
1970	1	0	1	1	0	1	0	4
1971	1	1	5	2	2	1	0	12
1972	1	0	0	6	1	0	0	8
1973	0	1	3	0	2	1	0	7
1974	0	2	2	1	2	1	0	11
1975	0	1	2	3	1	1	0	8
Total	3	7	14	26	14	9	0	73
Average	0.3	0.7	1.4	2.6	1.4	0.9	0.0	7.3

*Cyclone ascribed to the month in which it began.

Table 4.--Eastern North Pacific tropical cyclone statistics, 1975

Cyclone Name/ Number	Lifespan From: To:	- - - - - - - - - - -Date-Time of Classification/Location - - - - - - - - - - - - -						Highest Wind Speed-Kn	From:	To:
		Depression	Storm	Hurricane	Storm	Depression	Ended			
Hurricane Agatha	2 June-5 June	020000 13.5N 99.0W	021800 13.2N 111.0W	040000 15.8N 104.1W	041200 17.2N 104.7W	051800 19.7N 106.7W	060000 19.7N 106.7W	70	040000 15.8N 104.1W	040600 16.6N 104.7W
Tropical Storm Bridget	27 June-3 July	271800 14.5N 110.0W	281200 14.7N 110.0W			020600 15.2N 120.2W	030600 14.4N 122.5W	55	301800 16.8N 117.3W	010000 16.7N 117.6W
Hurricane Carlotta	2 July-11 July	020600 10.8N 101.0W	021800 11.4N 103.4W	031800 13.2N 107.0W	080000 17.4N 121.3W	100000 18.4N 127.3W	110000 18.4N 127.3W	110	051200 16.7N 113.5W	061200 17.4N 117.2W
Tropical Cyclone Four	2 July-3 July	021800 11.7N 134.3W					031200 10.5N 136.5W	25	021800 11.7N 134.3W	031200 10.5N 136.5W
Hurricane Denise	4 July-15 July	041800 11.0N 93.0W	070000 13.3N 101.3W	071800 14.6N 102.8W	131200 19.7N 118.7W	141800 20.6N 119.2W	150000 20.8N 119.0W	120	091200 16.0N 108.1W	091800 15.5N 109.4W
Tropical Storm Eleanor	10 July-12 July	101800 14.7N 100.2W	110000 15.8N 100.8W				120000 17.6N 103.8W	35	110000 15.8N 100.8W	120000 17.6N 103.8W
Tropical Storm Francene	27 July-30 July	270600 16.3N 102.8W	271200 16.5N 103.7W			281800 16.3N 107.5W	300000 17.7N 112.5W	45	271800 16.5N 104.5W	281200 16.4N 107.8W
Tropical Storm Georgette	10 Aug-13 Aug	110000 14.0N 117.5W	111800 14.4N 119.5W			130600 17.4N 125.3W	140600 16.8N 129.3W	40	120600 15.0N 121.7W	130000 16.7N 123.7W
Tropical Storm Hilary	12 Aug-17 Aug	121800 11.4N 107.0W	130600 12.0N 109.5W			161200 20.3N 121.7W	171200 21.0N 124.0W	50	150000 16.4N 117.0W	150600 17.5N 117.4W
Hurricane Ilsa	18 Aug-26 Aug	180000 12.1N 95.8W	181200 12.3N 97.0W	210000 14.0N 104.0W	260000 19.7N 126.1W	261800 20.3N 129.9W	261800 20.3N 129.9W	95	230000 14.7N 110.0W	230600 15.2N 112.0W
Hurricane Jewel	23 Aug-31 Aug	231800 12.0N 100.0W	251800 15.8N 107.1W	271200 16.5N 111.0W	271800 16.5N 111.5W	310000 19.0N 126.2W	311800 19.0N 129.0W	65	271200 16.5N 111.0W	271800 16.5N 111.5W
Hurricane Katrina	28 Aug-7 Sept	281800 10.0N 100.0W	290000 10.5N 101.0W	291800 11.5N 103.7W	050600 21.8N 121.1W	061200 21.6N 126.3W	070000 21.6N 128.9W	115	031200 20.4N 113.7W	031800 20.7N 114.5W
Tropical Cyclone Thirteen	12 Sept-16 Sept	120000 19.5N 109.5W					160000 23.3N 115.2W	30	130000 19.5N 109.5W	141800 21.0N 110.2W
Hurricane Lily	16 Sept-21 Sept	161200 16.3N 104.2W	161800 16.4N 105.0W	181800 18.2N 110.3W	201800 21.4N 121.1W	211800 22.5N 126.0W	211800 22.5N 126.0W	75	190000 18.6N 111.6W	200000 20.0N 117.0W
Tropical Storm Monica	28 Sept-2 Oct	281200 11.5N 117.8W	290000 11.7N 120.0W			010600 13.5N 126.5W	020000 15.0N 127.3W	45	301800 13.0N 125.3W	010000 13.3N 126.0W
Tropical Storm Nanette	28 Sept-4 Oct	281200 12.8N 107.0W	291800 12.7N 110.0W			040000 14.0N 125.0W	040000 14.0N 125.0W	50	301800 12.7N 112.3W	010000 12.8N 113.0W
Tropical Cyclone Seventeen	16 Oct-17 Oct	161800 18.1N 111.1W					171200 18.0N 111.0W	25	161800 18.1N 111.1W	171200 18.0N 111.0W
Hurricane Olivia	22 Oct-25 Oct	220000 13.7N 107.6N	220600 14.0N 109.0W	231800 17.0N 110.8W			250600 23.2N 106.3W	100	250600 23.2N 106.3W	Onshore
Tropical Cyclone Nineteen	1 Nov-2 Nov	010600 12.8N 99.2W					021800 14.3N 102.7W	25	010600 12.8N 99.2W	021800 14.3N 107.7W
Tropical Storm Priscilla	2 Nov-7 Nov	020000 11.5N 97.0W	040600 13.2N 101.6W				070000 17.0N 113.7W	55	051800 15.6N 108.7W	070000 17.0N 113.7W

TYPHOONS OF THE WESTERN NORTH PACIFIC, 1975

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There was a sharp decrease in tropical cyclone activity from 1974. There were only 20 named tropical cyclones in 1975, a 30% decrease from the long-term average of 28.6 . Since 1945, only 1973 exceeds 1975 for total number of consecutive days without a named tropical cyclone. The record in 1973 was 183 consecutive days, while in 1975, 180 days elapsed between typhoon Lola in January and tropical storm Mamie in July. Of the 20 named tropical storms occurring between July 27 and November 24, 13 became typhoons. Three of these, Nina, Elsie, and June, became supertyphoons with maximum winds exceeding 130 kn. The most noteworthy event of the 1975 season was the occurrence of supertyphoon June, the most intense tropical cyclone ever recorded.

At 0843 on November 19, reconnaissance aircraft measured a record low 700-mb height of 1984 m while traversing the eye and obtained a coincident minimum sea-level pressure (MSLP) of 876 mb (25.87 in) by dropsonde near the cloud wall. This observation was the lowest on record, slightly lower (1 mb) than typhoons Ida in 1958 and Nora in 1973. June's central pressure well surpasses the lowest Western Hemisphere reading (892.3 mb), and that obtained by aircraft in hurricane Camille (905 mb).

Casualty reports indicate that typhoons Phyllis and Rita has accounted for the majority of tropical cyclone related casualties in Japan. Phyllis caused 60 deaths and 146 injuries in mid-August. Later in the month, Rita reportedly caused the worst flooding on Hokkaido in 10 yr. On Taiwan, typhoon Nina caused 25 deaths and 168 injuries, also sinking a small freighter. Typhoon Betty, in September, caused an additional 12 deaths and injured scores. The Republic of the Philippines suffered casualties from typhoon Lola in January and two tropical depressions in December. Most deaths were caused by extensive flooding of low-lying areas. Lola accounted for the loss of 30 lives and serious damage to sugar-producing areas on the southern islands. The tropical depressions, although limited in destructive winds, caused torrential rains, and 97 lives were lost in the resulting floods. The greatest at-sea disaster occurred in the South China Sea when typhoon Flossie sank two timber freighters with the loss of 44 lives in late October.

Tables 1 and 2 show the distribution of typhoons and tropical cyclones by month and year from 1959 on with an average from 1945 through 1958. The comparison of averages between the two periods represents the influence of satellite data and increased ship reports.

The statistics for 1975 storms are contained in Table 3. The cyclone tracks are based on poststorm analysis. The dates given include the period when the storm was first identifiable, no matter what stage, until it dissipated or became extratropical. The maximum winds are over-water estimates of sustained windspeeds for a 1-min averaging period.

The individual typhoons during 1975 are described in the following narratives. Specific times and figures are GMT. Tropical storm summaries can be found in the appropriate "smooth log" of the Mariners Weather Log.

LOLA

In mid-January, the monsoom trough, normally located south of $5^{\circ}N$ during this time of year, moved northward. A circulation was first detected in the trough on January 18 approximately 400 mi south of Guam. Over the next five days this tropical disturbance was to develop into typhoon Lola. Lola was distinguished by being only the ninth typhoon in the month of January since 1945.

From its origin, the circulation tracked west northwestward as it intensified to tropical storm strength on January 22. At that time Lola was 75 mi east of the Palau Islands with northwesterly winds of 35 kn observed on Koror. Wind, rain, and high seas from Lola lashed the Palau Islands for the next 24 hr as the storm moved through. Major damage to agriculture occurred on the northernmost island of Kayangel, with banana, papaya, coconut, and taro crops almost totally destroyed.

From the Palau Islands, Lola moved westward under the steering influence of strong 500-mb ridging to the north. With upper-level outflow restricted in the eastern semicircle by strong ridging to the east,Lola developed to minimal typhoon strength late on the 23d. Aircraft reconnaissance reports on the 24th indicated the typhoon's central pressure had reached its minimum of 976 mb.

Typhoon Lola struck the central Philippines' sugar-producing provinces near peak intensity on the afternoon of the 24th. At least 30 persons were reported killed by landslides and flying debris, with more than 300 houses in the coastal town of Tandog destroyed by the storm surge.

Lola decreased to tropical storm strength while crossing the Philippines and entered the South China Sea. The storm then pursued a west-northwest track as the 500-mb ridge receded eastward. Lola regenerated to a peak intensity of 50 kn on the morning of the 26th. By the following morning, a cold frontal surge from Asia pushed into the South China Sea, weakening the circulation significantly. The remains of Lola moved southward in response to the building high pressure to the north. On the 28th satellite data indicated that the upper-level anticyclone had sheared off, and the remains of the surface circulation had drifted southward.

NINA

As tropical storm Mamie dissipated and drifted toward

Korea, the monsoon trough migrated northward leaving a well-defined trough line extending southeastward from the remains of Mamie into the Philippine Sea. A tropical disturbance spawned in this trough on July 29 and rapidly developed into typhoon Nina, one of the most destructive storms of the season. After initial detection by satellite, the tropical disturbance moved southwestward for approximately 36 hr as surface and upper-air circulations became organized and vertically aligned. By 1200 on the 31st the system slowed, intensified rapidly to tropical storm strength, and began turning to the northwest.

Nina underwent explosive deepening late on August 1. Aircraft reconnaissance data indicated a 63-mb drop in sea-level pressure at the typhoon's center between the 1st at 1437 and the 2d at 0830, with maximum surface winds increasing from 65 kn to 130 kn during that period. A peak intensity of 135 kn was attained on the 2d at 1200, approximately 200 mi east of Taiwan. The typhoon slowly decreased in intensity while approaching the island, making landfall near the coastal city of Hualien on the 3d at 0300 with maximum surface winds of 100 kn.

Much of the typhoon's strength was lost as it battered across Taiwan's central mountain range, fortunately sparing the most populous areas from the more intense winds near the eye. Nevertheless, Nina's trek across Taiwan reportedly left 25 people dead, 4 missing, and 168 injured. It was also reported that over 3,000 homes were at least partially collapsed, 39 fishing boats were sunk, and a 16,000-ton Korean freighter, the SUN STAR, was capsized near Koahsiung harbor. Damage from flooding and landslides was widespread. Nina entered the Formosa Straits with minimal typhoon strength, and weakened to approximately 60 kn before striking the China mainland on the 3d at 1500. Nina moved inland and lost tropical cyclone characteristics on the 4th.

ORA

The third typhoon of the season, Ora, was small and short lived. Ora first appeared as a weak circulation on the evening of the 8th. During the next 30 hrs, this weak circulation moved northwestward at 6 kn showing little intensification. On the morning of the 10th, a rapidly moving upper-level trough in the mid-latitude westerlies was located to the northwest of the circulation. This trough provided a highly efficient high altitude outflow channel which allowed Ora to grow from a tropical depression into a typhoon within 30 hrs. As this trough moved quickly toward the east, Ora responded with a north-northeastward movement. When Ora's eye passed over Miyako Jima at 0600 on the 11th, the weather station recorded 5-kn surface winds and a minimum pressure of 976 mb. Simultaneously, a ship (JL 11) 120 mi to the east reported 55-kn sustained winds. At 0749 on the 11th, 50-kn gusts were recorded at Kadena, Okinawa, 150 mi northeast of Ora. As the trough passed to the east, the subtropical high over central China build rapidly eastward and Ora shifted northwestward and accelerated to 15 kn. By the morning of the 12th, Ora had turned westward at 13 kn until landfall was made on the 12th near Yung-chia on the central China coast. Although little destruction was directly attributed to Ora, monsoon rains were spawned over the Philippines and caused widespread flooding and landslides. Choppy waters near Tocloban, Leyte, capsized a crowded motorboat leaving 15 dead and 30 missing.

PHYLLIS

From early August, the monsoonal trough had extended from the remains of typhoon Nina in central China to an area west of Guam. A number of surface circulations appeared in this trough, but it was not until the morning of the 11th that Phyllis first appeared as a tropical disturbance some 380 mi west-southwest of Guam. By 0600 on the 12th, the disturbance had become a 35-kn tropical storm. Aircraft reported multiple surface centers and a weak and diffuse 700-mb center. On the 13th at 0833, aircraft reported a closed wall cloud with an eye 30 mi in diameter. The Russian research vessel PRIVIV reported surface winds of 60 kn, 60 mi west-southwest of Phyllis at 1200. Phyllis was upgraded to a typhoon with maximum winds of 70 kn.

By the 13th the mid-tropospheric ridge over China began to weaken while the ridge east of Japan intensified. Twenty-four hours later, Phyllis' forward speed had increased to 18 kn. The typhoon attained a maximum intensity of 120 kn on the 14th after aircraft had recorded a minimum sea-level pressure of 920 mb. By the 15th Phyllis' movement had slowed to 7 kn and had become northwestward as the mid-tropospheric ridge built westward across Japan. After turning to the northwest, Phyllis once again accelerated and by the afternoon of the 16th, was located 165 mi southeast of Shikoku. As Phyllis approached Japan, Shimizu (elevation 99 ft) recorded sustained surface winds of 77 kn on the 16th at 1800 and a minimum pressure of 970 mb at 2300. Murotomisaki (elevation 606 ft) recorded sustained surface winds of 73 kn at 2000 on the 16th. Phyllis, with 80-kn sustained winds, made landfall during the morning of the 17th near the southwestern edge of Shikoku.

In her wake Phyllis left extensive damage and loss of life. On Shikoku alone there were at least 60 dead, 146 injured, and 12 missing due to the combination of heavy rains, flooding, and numerous landslides. At least 489 houses were reported collapsed, 577 damaged, 58 washed away, and thousands inundated.

RITA

The third typhoon in August, Rita, made landfall over Japan in the wake of typhoon Phyllis. The heavy rains brought by Rita made the storm the most damaging to affect northern Japan since 1965.

The typhoon's birth can be traced to the development of a monsoon depression some 180 mi southeast of Okinawa on the 18th. Drifting first east then westward, Rita began to gain strength as aircraft reconnaissance reports verified storm-force winds in the circulation on the following day. A minimum pressure of 983.4 mb was registered at Kadena Air Base on the 20th, although winds were comparatively light with a peak gust of 37 kn from the northwest recorded at 0514. An approaching short wave over Manchuria began to draw Rita on a more northward course late on the 20th. By the afternoon of the 21st, typhoon-force winds were reached and Rita's circulation had grown significantly in size. Gale-force winds extended some 300 mi in the typhoon's eastern semicircle. As the short wave continued to approach the typhoon, Rita accelerated gradually in a north-northeasterly direction, making landfall 30 mi west of Osaka late on the 22d. Prior to landfall, Rita's 40-60 mi diameter eye passed over Murotomisaki (elevation 606 ft), Shikoku. The station experienced a pressure reading of 966.3 mb and sustained surface winds of 80 kn.

Quickly crossing central Honshu, Rita veered slightly and accelerated to speeds of 30-35 kn ahead of an advancing cold front in the Sea of Japan. First tracking along the western coast, Rita crossed the northern portion of Honshu, finally emerging back into the Pacific on a northeasterly heading. Strong gusty winds occurred along the exposed southern coast of Honshu between the Kii and Boso peninsulas. Southerly winds gusting near 55 kn were recorded at Yokota Air Base between 0300 and 0400 on the 23d.

Merging with the frontal zone south of Hokkaido, Rita continued to track northeastward as an extratropical low. Torrential rains swept Hokkaido with amounts totaling near 8.2 in. in 24 hr. Landslides and flash flooding as a result of the rains were responsible for extensive crop and property damage with farmlands inundated and 36,000 houses flooded throughout Japan. At least 26 deaths were attributed to the typhoon. Newspaper reports indicate that it was the worst flooding in 10 yr for Hokkaido. Several major rivers on the island overflowed their banks leaving towns marooned and isolated.

TESS

While her beginnings can be traced back to August, the first warning on Tess was issued on the morning of September 2 after reconnaissance aircraft and satellite data indicated rapid development. Tess was upgraded to a typhoon on the 3d at 1200 when reconnaissance aircraft reported surface winds of 75 kn approximately 250 mi west of the Maug Islands. The typhoon was now moving in a more northerly direction toward a weakness in the collapsing mid-tropospheric ridge to the north. Thirty hours later on the 4th at 1800, Tess reached a minimum central pressure of 945 mb and maximum sustained surface winds of 95 kn. On the 7th at 0000, the OREGON reported estimated surface winds of 65 kn while 60 mi east-southeast of the storm's center. Tess maintained typhoon intensity until the 8th at 1800 when it moved into a hostile environment of colder water and began interacting with an approaching frontal system. Satellite data indicated that the typhoon was becoming extratropical, and by the morning of the 10th Tess had merged into the frontal system.

WINNIE

Winnie was first detected by satellite on September 5 as a weak tropical disturbance approximately 300 mi northwest of Wake Island. At this time typhoon Tess was approximately 900 mi to the northwest of Winnie with a surface trough extending southeastward to Wake Island. The combination of surface troughing and a favorable upper-air pattern allowed this disturbance to develop.

From her initial detection as a disturbance, Winnie moved slowly north-northeastward, attaining minimal tropical storm intensity at 2100 on the 8th. The storm was now 400 mi north-northwest of Wake Island and posed no significant threat to any inhabited islands. However, as reported by the Pacific Stars and Stripes, Winnie did represent a threat to shipping and, in fact, sank a 44-ft sailboat, THE FLATBUSH MAN, on a pleasure cruise from Marcus Island to Hawaii. The four people aboard were adrift for 13 days in a rubber raft until September 21 when a Russian whaling vessel picked them up.

From the time of initial tropical storm strength until 1200 on the 11th, Winnie was steered on a northerly course by the combination of a sharp mid-tropospheric trough to the west and a blocking ridge to the east. A 200-mb trough extending to the west of Winnie inhibited development past minimal typhoon strength with typhoon-force winds persisting only for a 24-hr period from 1800 on the 9th to 1800 on the 10th. The KYOYO MARU, located approximately 35 mi north of Winnie, reported sustained winds of 65 kn at 1800 on the 9th. Approaching a frontal system near 35°N, Winnie came under stronger steering flow, accelerated to near 20 kn, and began to weaken. A short wave trough moving through the long wave ridge diminished its amplitude, and Winnie assumed a more northeasterly track while continuing to accelerate. By 0000 on the 12th, Winnie was absorbed into the frontal system and became an extratropical system with maximum winds of 30 kn.

ALICE

On the morning of September 12, a tropical disturbance was identified on satellite data near 12°N, 148°E. This system became tropical storm Alice on the afternoon of the 16th and intensified to typhoon strength within 24 hr. On the 17th at 1430, aircraft reconnaissance data indicated a 32-mb drop in central pressure during the previous 21 hr, and maximum flight-level winds of 105 kn were recorded on this eye penetration. Reduced inflow resulting from the development of typhoon Betty (1200 mi to the east) inhibited further development as Alice approached central Luzon. At 2000 on the 17th the typhoon made landfall near Casiguran, Luzon, with maximum surface winds of 75 kn. Alice entered the South China Sea at 0400 on the 18th with surface winds of 65 kn. Wallace Air Station reported winds of 40 kn with gusts to 60 kn at 0129. A peak gust of 42 kn was recorded at Baguio at 0432. No significant damage was reported during the Luzon crossing.

Alice continued on a west-northwest track across the South China Sea in response to moderate steering flow along the southern periphery of the 500-mb subtropical ridge. Maximum surface winds decreased to 60 kn at 1200 on the 18th, and Alice maintained that intensity until just prior to striking the Hainan coast at 1800 on the 19th. Alice was still well organized as she entered the Gulf of Tonkin with 50-kn winds, but she weakened rapidly thereafter and dissipated upon moving inland over North Vietnam.

BETTY

As typhoon Alice approached the Philippine Islands on September 16, another tropical circulation was detected in the monsoonal trough some 200 mi south of Guam. This disturbance passed within 50 mi of Guam early on the 17th. It became a tropical storm on the morning of the 18th while moving westward at 12 kn.

On the 19th, as a weak upper tropospheric trough to the west deepened and created a highly efficient outflow channel in the mid-latitude westerlies, Betty began to intensify. At 0230 on the 22d, typhoon Betty attained a maximum intensity of 95 kn as reconnaissance aircraft recorded a minimum sea-level pressure of 944 mb.

At 1200 on the 21st, a ship located 140 mi northeast of the storm estimated winds at 55 kn and seas of 27 ft. The September 22 0000 rawinsonde at Ishigakishima (110 mi north-northeast of Betty) showed 70-kn winds from the 3,000-ft through the 18,000-ft level. Upon reaching Taiwan, Betty began to weaken. Her track became west-northwestward as she interacted with a lee-side trough created by the high mountain ranges on Taiwan. Packing winds near 80 kn, Betty crossed into southern Taiwan about 15 mi north of Taitung. Unofficial reports indicated 12 dead, scores injured, and hundreds homeless in the typhoon's wake. Nearly a thousand tourists were stranded as mudslides covered highways. In addition, more than 200 homes were leveled and hundreds of others damaged.

After crossing the mountains of southern Taiwan, the storm's track became west-southwesterly. Weakened by the rugged terrain, Betty entered the Taiwan Strait as a minimal typhoon. It continued to weaken and crossed the Chinese coast on the evening of the 23d with 50-kn winds. By the 24th, Betty had degenerated into a low-pressure area some 100 mi north of Hong Kong.

CORA

Weak troughing in the low-level easterlies spawned a disturbance near 10°N, 142°E, on the morning of September 29. This disturbance drifted west-northwestward for the next several days; on October 1, aircraft reconnaissance reported surface winds of 30 kn. Cora was upgraded to typhoon strength on the 3d when aircraft reconnaissance reported 70-kn surface winds and a closed wall cloud. The system lacked good vertical structure through the evening of the 3d when the 700-mb center was still displaced east of the surface center.

As Cora passed 100 mi to the east of Okinawa on the morning of the 4th, Kadena Air Base recorded a peak gust of 31 kn. That evening Cora attained a minimum central pressure of 943 mb and maximum sustained surface winds of 105 kn. Moving to the northeast at 30 kn, Cora passed 120 mi south-southeast of Toyko on the evening of the 5th. Satellite data on the 6th indicated that there was very little upper-level outflow, but an apparent low-level circulation was still visible. The remains of Cora were now moving to the east at 40 kn as an extratropical system with surface winds of 55 kn.

ELSIE

By October 6, the monsoonal trough had become quite active and was oriented east-west along 8°N from the Philippines to 160°E. Typhoon Elsie developed in this trough with a well-defined surface circulation located approximately 250 mi southwest of Guam on the 8th. Elsie attained typhoon strength on the 10th. At this point, she began slowing down as the storm approached the western extent of the midtropospheric subtropical ridge. Elsie then underwent explosive deepening, and aircraft reconnaissance recorded a 69-mb drop in the central pressure at the typhoon's center between the 102052 and 111430 fixes. The maximum surface winds increased from 65 kn to 135 kn during this period.

As Elsie approached the Bashi Channel, Basco, in the Bataan Islands, reported maximum sustained winds of 65 kn, 40 mi east of Elsie's center. Elsie continued moving west-northwestward through the Bataan Islands on the 12th. As the typhoon entered the South China Sea, it began to weaken with inflow restricted to the north by the Asian continent. Still, the Royal Observatory in Hong Kong reported that typhoon Elsie was one of the most intense typhoons ever to affect Hong Kong in the month of October. Royal Observatory radar began tracking the storm by late afternoon on the 13th and Elsie passed 35 mi to the south of Hong Kong on the 14th. At that time the maximum sustained winds recorded at Hong Kong were 70 kn with gusts up to 118 kn. Fortunately, the maximum winds occurred at low tide, thus reducing flooding. Seven ocean-going vessels drifted from their moorings, and one small craft and a fishing junk capsized. The lowest pressure recorded in Hong Kong was 987.5 mb. There were no fatalities reported, but 46 people were injured by flying debris.

After passing south of Hong Kong, Elsie continued westward, making landfall on the southern China coast at approximately 1500 on the 14th. Elsie then dissipated rapidly over the Asian mainland.

FLOSSIE

The circulation which was to become typhoon Flossie was first analyzed 500 mi west-southwest of Guam on the 0000 surface analysis of October 14. Its development was somewhat retarded on the 15th and 16th by the presence of a depression 420 mi to the north-northeast. On the 19th the disturbance moved into the South China Sea after crossing Luzon and began to intensify. The first warning was issued on the morning of the 20th based on satellite and synoptic data. Early the next morning reconnaissance aircraft reported a central pressure of 989 mb, and the depression was upgraded to tropical storm Flossie.

A container ship, the MAYAQUEZ, reported a pressure of 980 mb and 60-kn winds on the afternoon of the 21st. At that time the MAYAQUEZ was 40 mi south-southwest of the storm's center. Flossie was upgraded to a typhoon on the afternoon of the 22d when located about 250 mi south of Hong Kong. Two timber freighters, the MING SING and KINABALU SATU, sank between Flossie and the southern approaches to Hong Kong on the 21st and 22d, respectively. Due to the high seas and typhoon-force winds, all rescue efforts failed and a total of 44 men were lost. Three survivors were picked up in a lifeboat a week later.

Flossie reached a maximum intensity of 70 kn on the evening of the 22d. As the typhoon approached landfall on the 23d, its circulation was disrupted in the northeast quadrant by the terrain and its intensity began to diminish rapidly. Flossie made landfall on the afternoon of the 23d on the northeast portion of the Luichow Peninsula. Winds at that time were down to 50 kn.

Although typhoon Flossie's maximum winds were only 70 kn, the seas generated in the northern South China Sea remained a threat to shipping for several days.

IDA

Destined to spend its entire life cycle at sea, Ida was first observed as a tropical disturbance on November 5, 150 mi northwest of Ponape. The disturbance initially tracked westward at 8 kn with dual circulation centers oriented along a northeast to southwest axis. The disturbance became a tropical depression at 0600 on the 6th and then began moving toward the north. Early on the morning of the 8th, the depression was upgraded to tropical storm Ida and accelerated toward the northwest at 10 kn. Ida continued to intensify as the center passed near the southern Mariana Islands, with wind gusts of 32 kn reported on Guam on the 7th. On the 9th Pagan Island in the northern Marianas reported 40-kn winds.

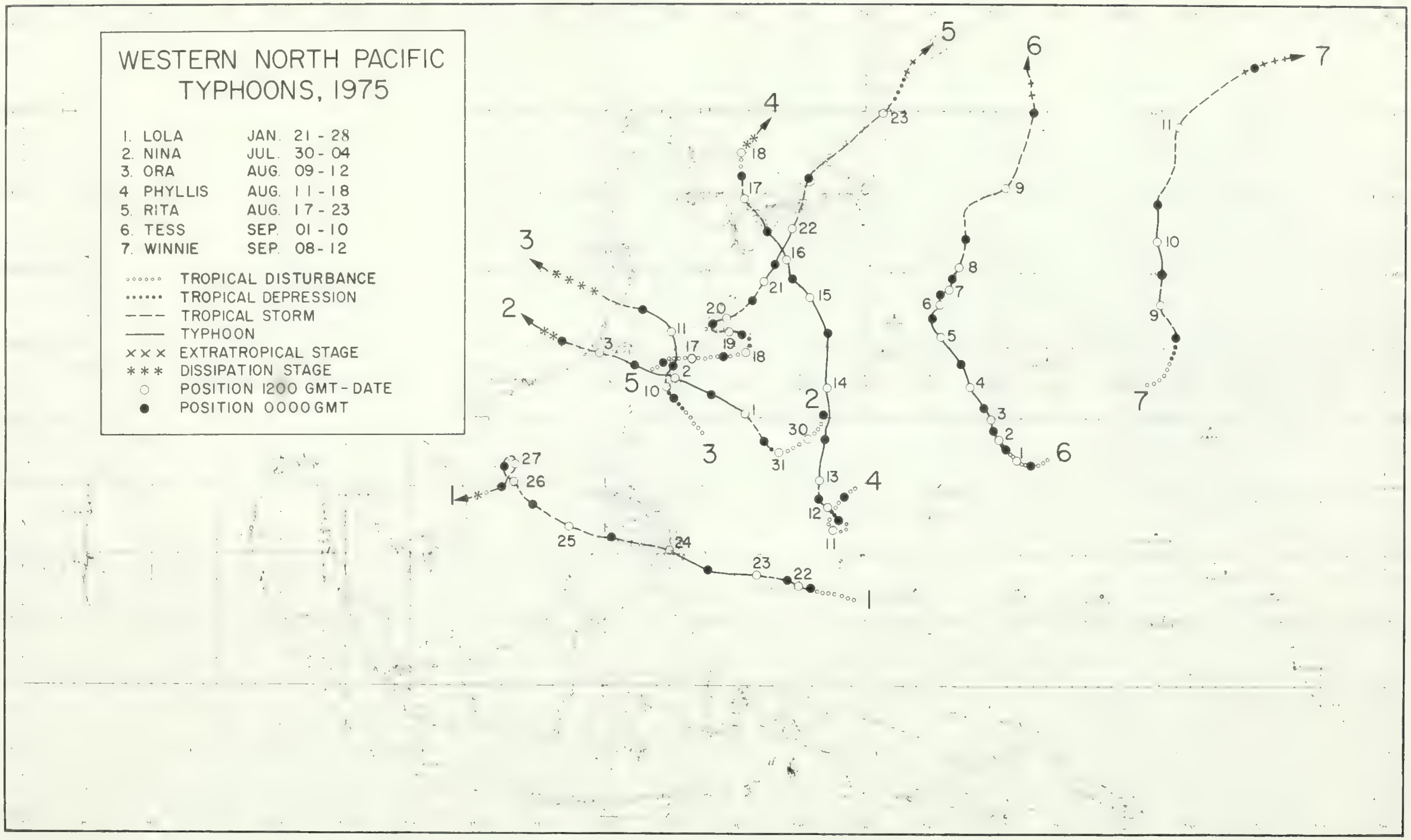
The storm attained typhoon intensity by 1800 on the 9th and began tracking toward the north-northeast at an accelerated rate. A minimum central pressure of 959 mb was observed by aircraft reconnaissance at 1437 on the 10th. By 0000 on the 11th, Ida was moving toward the north-northeast at 33 kn and had lost most of her tropical cyclone characteristics. Twelve hours later, Ida had combined with a frontal system and continued to move rapidly northeastward as an extratropical system.

JUNE

June had been under frequent surveillance by satellite and aircraft since her birth in the central Carolines on November 16. Initially, she moved slowly westward, becoming quasi-stationary about 445 mi south of Guam. On the 18th June began to move northward. Simultaneously, she began to deepen rapidly, her surface pressure plummeting 52 mb in 11 hr and 90 mb in 24 hr. By the 19th, the winds of June had increased to an estimated 160 kn as the typhoon reached its lowest pressure some 230 mi west-southwest of Guam. As June tracked north-northwestward her circulation reached exceptionally large proportions. Sustained surface winds of 50 kn or greater extended 200 mi outward from the center.

On the evening of the 19th, June passed approximately 200 mi to the west of Guam. More than 3,200 island residents fled into evacuation centers. There was severe flooding in low-lying areas, with several buildings and homes damaged or destroyed by gale-force winds and storm surge. A peak gust of 70 kn was recorded at Anderson Air Force Base. Island losses amounted to an estimated $300,000 with most of the damage to crops. Eauripik Atoll in Yap district suffered severe property and crop damage. Newspaper reports stated that "sizable portions" of the island were washed away by the heavy seas, but that no deaths or injuries occurred. Flooding and crop damage were also reported on Woleai Atoll and on other low-lying islands in Yap district; however, no casualties were reported on any of the islands.

After passing abeam of Guam, supertyphoon June turned northwestward, but by the 22d she began recurving toward the northeast as maximum winds fell to 100 kn. On the 23d the storm began accelerating rapidly in the strong westerlies and its forward speed reached nearly 60 kn. With an influx of cold air, June became extratropical above 30°N, still possessing winds of typhoon intensity.



WESTERN NORTH PACIFIC TYPHOONS, 1975

1. LOLA JAN. 21 - 28
2. NINA JUL. 30 - 04
3. ORA AUG. 09 - 12
4 PHYLLIS AUG. 11 - 18
5. RITA AUG. 17 - 23
6. TESS SEP. 01 - 10
7. WINNIE SEP. 08 - 12
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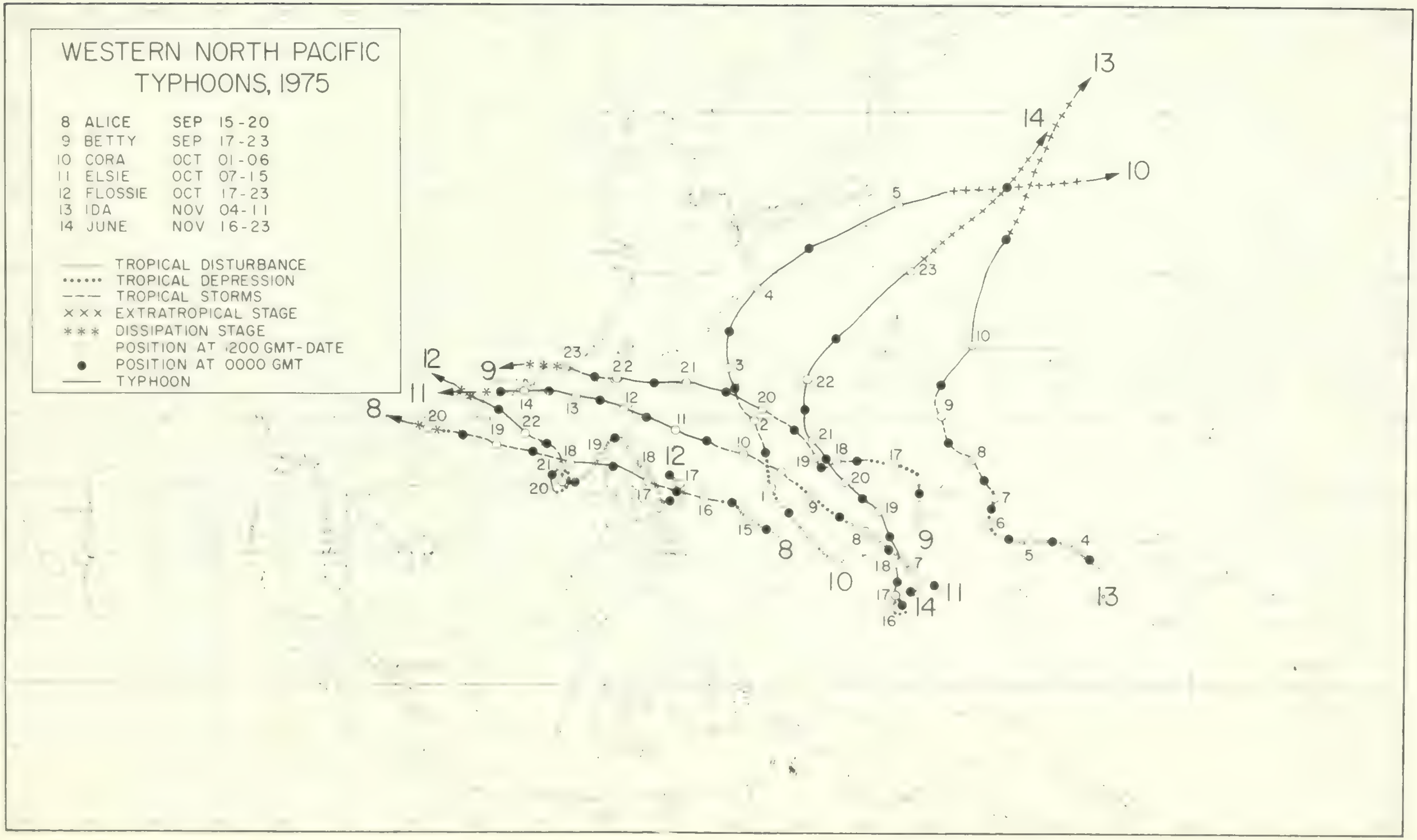

WESTERN NORTH PACIFIC
TYPHOONS, 1975

8	ALICE	SEP	15-20
9	BETTY	SEP	17-23
10	CORA	OCT	01-06
11	ELSIE	OCT	07-15
12	FLOSSIE	OCT	17-23
13	IDA	NOV	04-11
14	JUNE	NOV	16-23

TROPICAL DISTURBANCE
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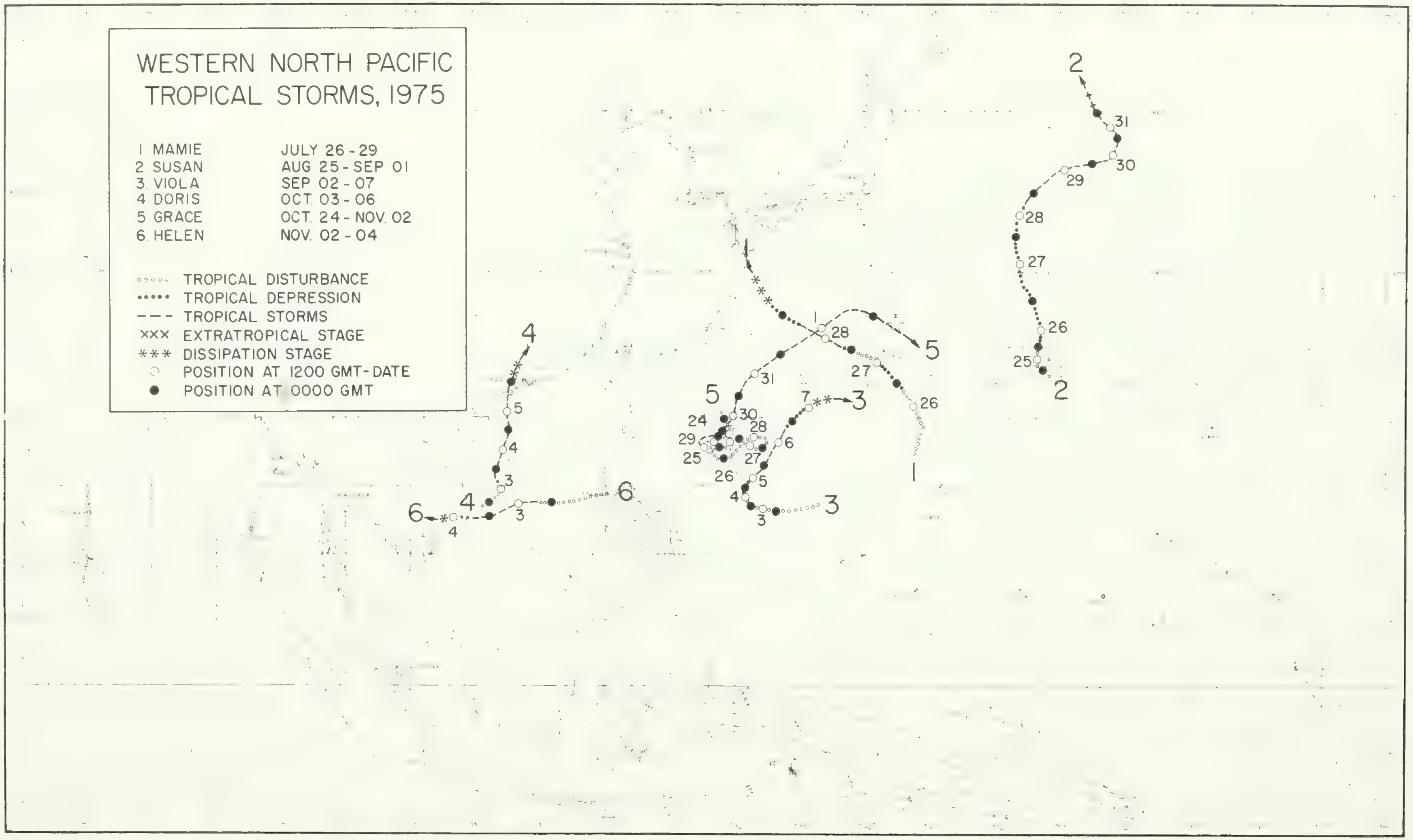
WESTERN NORTH PACIFIC
TROPICAL STORMS, 1975
1 MAMIE JULY 26 - 29
2 SUSAN AUG 25 - SEP 01
3. VIOLA SEP 02 - 07
4 DORIS OCT. 03 - 06
5 GRACE OCT. 24 - NOV. 02
6. HELEN NOV. 02 - 04
TROPICAL DISTURBANCE
TROPICAL DEPRESSION
TROPICAL STORMS
XXX EXTRATROPICAL STAGE
*** DISSIPATION STAGE
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POSITION AT 0000 GMT
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Table 1.--Frequency of tropical storms and typhoons by month and year

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
Average (1945-58)	0.4	0.1	0.4	0.5	0.8	1.3	3.0	3.9	4.1	3.3	2.7	1.1	22.0
1959	0	1	1	1	0	0	3	6	6	4	2	2	26
1960	0	0	0	1	1	3	3	10	3	4	1	1	27
1961	1	1	1	1	3	2	5	4	6	5	1	1	31
1962	0	1	0	1	2	0	6	7	3	5	3	2	30
1963	0	0	0	1	1	3	4	3	5	5	0	3	25
1964	0	0	0	0	2	2	7	9	7	6	6	1	40
1965	2	2	1	1	2	3	5	6	7	2	2	1	34
1966	0	0	0	1	2	1	5	8	7	3	2	1	30
1967	1	0	2	1	1	1	6	8	7	4	3	1	35
1968	0	0	0	1	1	1	3	8	3	6	4	0	27
1969	1	0	1	1	0	0	3	4	3	3	2	1	19
1970	0	1	0	0	0	2	2	6	4	5	4	0	24
1971	1	0	1	3	4	2	8	4	6	4	2	0	35
1972	1	0	0	0	1	3	6	5	4	5	2	3	30
1973	0	0	0	0	0	0	7	5	2	4	3	0	21
1974	1	0	1	1	1	4	4	5	5	4	4	2	32
1975	1	0	0	0	0	0	2	4	5	5	3	0	20
Average (1959-75)	0.5	0.4	0.5	0.8	1.2	1.6	4.6	6.1	4.9	4.1	2.6	1.1	28.6

Table 2.--Frequency of typhoons by month and year

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
Average (1945-58)	0.4	0.1	0.3	0.4	0.7	1.1	2.0	2.9	3.2	2.4	2.0	0.9	16.3
1959	0	0	0	1	0	0	1	5	3	3	2	1	20
1960	0	0	0	1	0	2	2	8	0	4	1	1	19
1961	0	0	1	0	2	1	3	3	5	3	1	1	20
1962	0	0	0	1	2	0	5	7	2	4	3	0	24
1963	0	0	0	1	1	2	3	3	3	4	0	2	19
1964	0	0	0	0	2	2	6	3	5	3	4	1	26
1965	1	0	0	1	2	2	4	3	5	2	1	0	21
1966	0	0	0	1	2	1	3	6	4	2	0	1	20
1967	0	0	1	1	0	1	3	4	4	3	3	0	20
1968	0	0	0	1	1	1	1	4	3	5	4	0	20
1969	1	0	0	1	0	0	2	3	2	3	1	0	13
1970	0	1	0	0	0	1	0	4	2	3	1	0	12
1971	0	0	0	3	1	2	6	3	5	3	1	0	24
1972	1	0	0	0	1	1	4	4	3	4	2	2	22
1973	0	0	0	0	0	0	4	2	2	4	0	0	12
1974	0	0	0	0	1	2	1	2	3	4	2	0	15
1975	1	0	0	0	0	0	1	3	4	3	2	0	14
Average (1959-75)	0.2	0.1	0.1	0.7	0.9	1.1	2.9	3.8	3.2	3.2	1.6	0.6	18.7

Table 3.--Western North Pacific Tropical cyclones, 1975

Name	Intensity	Period of Warning	Maximum surface wind (kn)	Minimum observed sea level pressure(mb)
Lola	TY	January 22-28	70	976
Mamie	TS	July 27-29	40	994
Nina	TY	July 31-August 4	135	904
Ora	TY	August 10-12	65	976
Phyllis	TY	August 12-18	120	920
Rita	TY	August 18-23	80	966
Susan	TS	*	50	---
Tess	TY	September 2-10	95	945
Viola	TS	September 5-7	45	996
Winnie	TY	September 9-12	65	---
Alice	TY	September 16-20	75	971
Betty	TY	September 17-23	95	944
Cora	TY	October 1-6	105	943
Doris	TS	October 3-6	55	---
Elsie	TY	October 9-15	135	900
Flossie	TY	October 20-23	70	977
Grace	TS	October 25-Nov. 2	60	994
Helen	TS	November 3-4	45	998
Ida	TY	November 6-11	85	959
June	TY	November 16-24	160	876

*Susan, August 26-27 and August 29-Sept. 1

TS - Tropical Storm; TY - Typhoon

FLOOD STAGE

YEAR 1974

The following sections, which would normally appear in this issue of the Climatological data, have been delayed. They will appear as delayed data in a subsequent issue which normally carries late reports:

General Summary of Flood Losses - 1974

Estimated Flood Losses - 1974

Loss of Life and Property in the United States from Floods - 1974

Distribution of Estimated Flood Losses - Charts - 1974

Losses in Individual Severe Floods - 1974

Flood Damage Estimates by States - 1974

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

YEAR 1975

R. J. Haley, Office of Hydrology

Several parts of the country were hit by severe flooding during 1975. Some of the most significant floods included the spring overflow in the Mississippi River Basin; the March floods in Kentucky; the April floods in lower Michigan and in Alabama and northwest Florida; the flooding in the Sun River Basin in Montana in June; the Red River of the North flood and the New Jersey floods during July; the Hurricane "Eloise" floods in September; and the flooding in western Washington during December.

Monetary losses from these and other floods during 1975 exceeded $1 billion. There were at least 113 flood-related fatalities.

Following is a brief summary by months of the most significant flooding during the year. A more detailed summary can be found in the monthly issues of this publication.

JANUARY

The most damaging overflow during January occurred in the Snohomish Basin in Washington. The Snoqualmie River, a major tributary of the Snohomish, reached 5 feet over flood stage at Carnation, the highest stage there since 1959. The flood was caused by warm rains augmented by snowmelt as freezing levels climbed from 4,500 feet to 9,000 feet. Total damages were estimated to be near $4 million.

A record flood crest occurred at Pendleton, OR, on the Umatilla River. This flood was also caused by warm rains and snowmelt. Levees protect the city of Pendleton and damage was, therefore, relatively light, less than a quarter million dollars.

Minor to moderate flooding was widespread through the Gulf of Mexico and Atlantic Slope drainages from Texas to Virginia, and in the Ohio Basin. Some overflow occurred also in the lower Missouri, White, Arkansas and lower Mississippi Basins. Damage was confined for the most part to agriculture. A youth playing in a rain-swollen stream in the Buffalo, NY, area was drowned.

FEBRUARY

There were two noteworthy flood events during February. The first occurred at Nacogdoches, TX, during the night of January 31-February 1 when as much as 13.5 inches of rain fell, causing overflow of two small creeks that run through the city. Severe damage estimated at almost $6 million resulted from this flash flooding. This includes $3 million damage to 500 residences that were flooded. In addition, there were 4 lives lost. The second major event of the month took place in the East Gulf of Mexico drainage. Widespread flooding occurred along small streams in the Alabama and Choctawhatchee and other basins in Alabama. Record to near record discharges were reported on some of these. Overflow of Catoma Creek which runs through the southern edge of Montgomery, AL, forced the evacuation of 200 persons from their homes. A 400-foot long section of the Walter Bouldin Dam within the Coosa River power system gave way, and the resulting damage to the structure was estimated at $17 million. Crest stages along the main stem of the lower Alabama river ranged to almost 12 feet over flood stage. In the Choctawhatchee Basin the Pea River reached the highest stage since 1929 at Elba, AL, where the crest was more than 13 feet over flood stage and forced 700 persons from their homes. Preliminary estimates of the total damage in the Alabama River Basin were near $35 million, and one life was lost. Losses in the Choctawhatchee, Escambia, and Tombigbee basins totalled about $2.5 million. Also, one life was lost.

Significant flooding occurred also in the Ohio River Basin, particularly in Ohio, Indiana, and Kentucky. Damages totalled several million dollars in these states. Two children were drowned when a car stalled at a small stream crossing near Columbus, IN. Less severe flooding occurred in numerous other areas from the Mississippi Valley to the east coast as well as in several areas in the southern plains, and in a few places in the Pacific slope drainage of California and Oregon. During the fore part of the month lowland flooding occurred along the main stem of the lower Ohio River. The heavy inflow from the Ohio resulted in lowland flooding along the main stem of the lower Mississippi down to Caruthersville, MO. Flooding was renewed along the Ohio River later in the month and in some reaches this overflow extended through March and into April.

MARCH

Flooding was widespread during March. A number of areas experienced severe overflow which in some cases was of record proportions. The State of Kentucky was hit by widespread flooding and flash flooding at midmonth. Eleven counties in the western, south-central and southeastern part of the state were declared disaster areas. The highest stage since the beginning of records in 1908 occurred on the Cumberland River at Williamsburg, KY, when the river rose to 13.5 feet over flood stage. Record flooding also occurred on several smaller streams in the state. Major overflow occurred on the Green and Barren Rivers with minor to moderate flooding in the Kentucky basin as well as some other areas. State-wide the flooding cost 3 lives and an estimated property damage of $20 million. Besides the flooding in the Tennessee River Basin in western Kentucky, major flooding occurred in other parts of the basin, including the main stem. The highest stage since 1948 occurred at Columbia, TN, when the Duck River reached more than 16 feet over flood stage. Major agricultural flooding occurred in the Wabash Basin of Indiana and Illinois, where

556,000 acres were inundated and total damages were put at more than $8 million. Other significant flooding in the Ohio Basin in March included nearly one-half million dollars damage on the Tug Fork in the Big Sandy drainage in West Virginia, and almost a quarter million dollars damage along the lower Scioto River in Ohio.

The State of Mississippi suffered major flooding during the month. The lower Yazoo Basin was hardest hit, and a very significant factor was the backwater flooding from the Mississippi River. More than 570, 000 acres of farmland were inundated. Sharkey and Issaquena Counties were 90% under water. Between seven and eight hundred families had to be evacuated from their homes. About 1,300 persons were evacuated from their homes in the Tombigbee River basin in Mississippi. Major flooding occurred in other parts of the East Gulf Drainage to Georgia and northwest Florida. Preliminary damage estimates for the flooding in Mississippi, Alabama, Georgia, and Florida totalled more than $24 million. Nearly $18 million of this was in the Yazoo Basin. Two lives were lost at Byram, MS.

Unseasonably warm temperatures caused rapid melting of a 10 to 20-inch snow cover over tributary basins of the Mississippi River in southern Wisconsin, northeast Iowa, and northwest Illinois. This melt was augmented by more than an inch of rain. The runoff which resulted produced a record high stage on the Pecatonica River at Martintown, WI. The heavy inflow from the Pecatonica helped cause the record high stages on the Rock River at Rockton and Rockford, IL. Widespread evacuations of residents of many unincorporated areas between Loves Park and Shirland, IL, occurred with 380 homes affected. There were 200 families evacuated at Freeport, IL, and more than 2,000 persons were forced from their homes in the Rockford, IL, area. Damage estimates ran as high as $10 million for the Rockford area.

Flooding along tributaries of the Mississippi River in western Tennessee reached serious proportions in some areas. In this region where flooding is relatively infrequent, crest stages reached more than 10 feet over flood stage on the Obion River and on the North and South Forks of the Forked Deer River. At South Fulton in the Hatchie River basin 1,000 persons were evacuated, and flood losses were put at $2 million. Damages in other areas totalled about $1 million.

Flood waters in the White River basin in Arkansas covered about 292,000 acres and caused $2.5 million damage, about one-half of which was to agriculture. More than $1 million flood losses occurred in Virginia along the lower James River and on the Appomattox River.

Flooding which began along the lower Ohio River late in February had ended at most stations before the middle of March, but later storms caused renewed overflow with the major crests occurring in April.

By the end of the third week of March flooding had developed along the main stem of the Mississippi River at all but a few places from Keithsburg, IL, to Donaldsonville, LA, and continued into April at most stations. The greatest overflow occurred at and below the mouth of the Ohio River where major crests occurred in April.

A mid-month storm brought flooding to streams in the northern California coast drainage with the most significant occurring in the Eel Basin. Damages were near $2 million.

APRIL

Lower Michigan was hit by severe and widespread flooding during April. Record high stages were observed in the Grand River basin on the Thornapple River at Hastings and Caledonia, and on the Red Cedar River at Williamston and East Lansing. Crest stages on the Red Cedar were 5 to 7 feet above flood stage. Flood losses in the Lake Michigan drainage were over $34 million, but more than $29 million of this occurred in East Lansing and elsewhere in Ingham County. About 800 families were evacuated from their homes in East Lansing and 100 business places were flooded. In the Lake Huron and Lake St. Clair drainages flood losses exceeded $14 million, of which more than one-half occurred in the Flint River basin. The flooding on the Flint and the Shiawassee Rivers was the worst since the record flood of 1947. Four lives were lost throughout the state, 3 in the Grand Basin and one in the Shiawassee Basin. In all of lower Michigan there were at least 17 counties affected by the flooding, and total damages were put at $48,469,000.

The worst flooding since the record overflows in 1929 occurred in parts of southern Alabama and northwest Florida with most crests occurring near the end of the second week of April. A 21-hour storm rainfall total near Enterprise, AL, was in excess of 17 inches. An elongated 1,600 square-mile area across southern Alabama from near Evergreen to Newton received about 14 inches during the storm. Overflow ranged to a depth of 12 feet above flood stage on the Apalachicola, Choctawhatchee, Yellow, and Murder Creek. There was severe and widespread flash flooding along smaller tributaries. Damage was extensive to all types of property. An eleven-county area in Alabama suffered more than $16 million damage, and in northwest Florida more than $8 million damage occurred over a seven-county area. In each state agricultural losses accounted for more than half the total damage since the flooding struck during a very vulnerable period when crops were being planted, or soil was being prepared for planting. Communities which suffered the worst damage were those along the Choctawhatchee, lower Pea, Yellow, Murder Creek, and the Chipola Rivers. Many thousands of persons were forced from their homes by the flood waters. A motorist was drowned in the Brewton, AL, area when his car was swept into Murder Creek.

Flooding which began in March along the lower main stem Mississippi River reached its crest in April with peak stages ranging upward to 10 feet above flood stage. The flood gates at Bonnet Carre spillway were opened from April 14 to 27. This diversion plus those upstream into the Atchafalaya River took about 2 feet off the crest at New Orleans. The overflow of the Mississippi and flooding in backwater areas along other streams in the lower Mississippi Basin inundated several hundred thousand acres and caused approximately $100 million damage. The March flood on the Yazoo and Big Black Rivers in Mississippi continued into April, and additional rainfall prolonged the overflow.

Spring snowmelt runoff augmented by heavy rains brought significant flooding to the Souris Basin in North Dakota and to the Red River of the North Basin in North Dakota and Minnesota. Main stem crests on the Souris and on the Red River at and below Drayton, ND, did not occur until May. Snowmelt and rainfall produced overflow along the upper Mississippi River also with losses estimated at less than $3 million. Generally light to moderate overflow occurred along several tributaries of the upper Mississippi and also on several in the Missouri Basin. This overflow in the upper Mississippi Basin continued into May in many areas. The town of Beulah, ND, suffered several thousand dollars damage, and 200 persons were evacuated from their homes. Also, there was one drowning when a car slid off a flooded county road.

MAY

Record high stages were recorded at several stations (including Logan, Sawyer, and Velva) along the Souris River in North Dakota as the river reached peak levels during the flood which began in April. Early May rainfall added to the runoff, which was primarily the cause of the record overflow. Hundreds of thousands of acres of farmland were inundated (167,000 acres in Bottineau County alone), and a number of farm families had to be evacuated. And more than 3,100 persons were evacuated from flood prone areas in Minor, ND, as a precautionary measure. There were two deaths by drowning. Flooding continued into June along the Souris below Lake Darling. The mostly rural flooding along the Red River of the North which also began in April had largely run its course by the middle of the month.

Severe flash flooding struck northwest Charlotte, NC, early on May 30, and urban and small stream flooding was widespread in Gaston, Mecklenberg, Cabarrus, and Stanley Counties. Damage in northwest Charlotte was estimated to be near $3 million.

Th Mississippi River was above flood level at all reporting stations, except Minneapolis, MN, from headwaters to Dubuque, IA, as the month began. By the 10th of May, the river had crested above flood stage at all stations downstream to Caruthersville, MO (except at St. Louis, MO). Crest stages ranged upward to 5 feet over flood level. Overflow was rather serious in some areas. The crest stages at Davenport and Dubuque, IA, were the third highest in this century. Damages at Davenport alone were put at $800,000.

Severe flash flooding occurred in several areas in the Ohio River basin in Kentucky, and the Virginias. Losses were estimated at $4 million in the headwater areas of the Levisa Fork in the Big Sandy Basin in Kentucky, and two lives were lost. At Pound, VA, more than 100 homes and businesses were flooded, 250 persons evacuated, and $300,000 damages occurred.

At Stillwater, OK, 4 inches of rain in 1-1/2 hours caused flash flooding that drove about 200 persons from their homes. Heavy agricultural flooding developed again in the lower Red River Basin in Arkansas and Louisiana. More than one million acres were inundated and losses were over $20 million. A child was drowned in urban flooding at Bastrop, LA.

Flooding occurred on several Alaska rivers. Major overflow developed on the lower Yukon River when an ice jam at Holy Cross formed a lake 80 miles long which covered an area of about 1,000 square miles. Several communities above Holy Cross were flooded and many persons were forced from their homes. A similar condition developed on the Kuskokwim River when an ice jam formed above Napakiak and backed water up into several communities upstream to Akiak.

JUNE

A record flood crest occurred on the Maple River at Enderlin, ND, during June. Other crests during the major flooding which began during the latter part of the month in the Red River of the North Basin did not occur until July.

Record overflow in the Skunk Basin in the vicinity of Ames, IA, resulted in over $5 million damage with 50,000 acres inundated. Extensive flooding occurred elsewhere in Iowa, on the lower Cedar, portions of the Iowa River, and in the Des Moines River Basin.

Flooding second only to the record flooding of 1964 occurred in the upper Missouri River basin in Montana when the Sun River crested 6 feet over flood stage at Great Falls, MT. Damages around Great Falls were estimated at $17 million with 20,000 acres under water. There were 4,000 persons evacuated from their homes. Flooding in other parts of the Missouri Basin in Montana caused losses totalling about $4 million. Nearly a million dollars in damages occurred in the Kansas River Basin in Kansas. The greater part of this occurred in the vicinity of Oberlin, KS, where Sappa Creek rose to about the same height reached in the record flood of 1956. In east-central Kansas flooding in the Marais des Cygnes Basin caused almost $500,000 in damage.

In Indiana crop losses of $2.5 million were reported in the Wabash Basin where 25,000 acres were inundated. Arkansas River tributaries in northern Oklahoma and southeast Kansas overflowed causing extensive crop damage and more than $1.5 million damage to roads and bridges. Approximately 200,000 acres were inundated in the Chikaskia, Ninnescah, and Cottonwood Basins, and 50,000 acres in other basins.

Record flooding along Pine Island Bayou in Texas followed in the wake of a storm on June 9-10 that deposited 17.5 inches of rain at Sour Lake. All the inhabitants along Pine Island Bayou were evacuated, including the 2,000 residents at Sour Lake. Twin infants were drowned in a flooded home in Port Arthur, TX. Total damages were put at more than $10 million. In addition, this same storm resulted in $1 million urban damage in the Houston area.

JULY

The major flooding which began in June in the Red River of the North Basin reached its climax in July. Record high stages were recorded at 11 stations. These were on the Maple and Sheyenne Rivers in North Dakota; and on the South Fork Two Rivers, South Branch Buffalo, Buffalo, and Wild Rice Rivers in Minnesota, and also on the main stem of the Red at Halstad, MN. It was one of the most damaging floods ever to strike this region. It was unique in that it resulted entirely from rainfall whereas most floods in the Red Basin are caused at least in part by snowmelt runoff. There were 2,369,370 acres under water. Total losses were estimated at more than $273 million, of which 95% was losses to agriculture. Four lives were lost.

Two separate storms produced severe flooding in the lower Delaware Basin and on New Jersey coastal streams. New Jersey suffered the worst losses with almost $56 million of a total of $85 million. The second highest stage of record was observed on the Millstone River at Blackwells Mills, NJ, where mass evacuations occurred. Between 1,200 and 1,500 families were evacuated in Trenton, NJ. Six lives were lost in New Jersey, and one life lost in Pennsylvania and in Delaware. There were three lives lost in flash flooding in Maryland with damages of more than $1 million reported. And in North Carolina, there were $5 million damages reported from flooding on the Nottoway and Meherrin Rivers, and three persons were drowned. In addition, $5 million damage occurred due to overflow over other eastern North Carolina streams.

Widespread flooding occurred for the second time in the year in southern Alabama and parts of northwest Florida. Damages were in the hundreds of thousands of dollars as some of the smaller rivers and creeks exceeded previously recorded heights. Major flash flooding occurred in Las Vegas, NV, and along the Virgin River. Damage was estimated at $6 million with $3.5 million of this in North Las Vegas. There were two lives lost. Flash flooding also hit several areas in Arizona, causing over $500,000 damage. And in the Columbia River Basin flooding on the Wallowa River in Oregon resulted in $2.5 million damage while $750,000 damage was reported in the Melheur River Basin, also in Oregon.

AUGUST

Record crest stages were observed on the White and Little Muskegon Rivers in Michigan during August (and extended into September) when record monthly rainfall amounts were recorded. Extensive agricultural damage occurred, and many communities experienced urban flooding. Monetary losses in these two basins were put at $5.4 million.

A record crest occurred on the Trempealeau River at Dodge, WI, following a 6-inch downpour on August 23. The major flooding which began in July in northwest Florida continued into August and the Shoal River reached a record high stage at Crestview, FL.

Flash flooding took seven lives during August and did extensive damage in several areas including Cleveland, OH, and Buffalo, NY. The flooding in the Cleveland area caused by a 5-inch rain in a 2-hour period resulted in an estimated $5 million damage, most of which occurred in the zoological park and a downstream industrial park. Two drownings occurred. The flash flooding in the Buffalo area was most severe in the town of Cheektowaga where damage was estimated at $3 million, with about $500,000 urban damage in Buffalo and in the town of Lancaster. This flooding was caused by 3.5 inches of rain falling in about 5 hours.

Two persons were drowned in a flash flood near Green Bay, VA, when their car was washed off a bridge over the Sandy River on State Route 629.

Four to seven inches of rain fell in a 10-hour period on the 27th in Dallas, Warren, and Polk counties in Iowa. The resultant flash flooding in the Des Moines metropolitan area and nearby areas caused about $1 million damage.

Heavy local rains caused flash flooding on the 1st on Sappa Creek in northwest Kansas. Two children were drowned when a car was washed off a bridge over Sappa Creek near Oberlin. And on the 10th, a small boy was drowned when a car was washed off a bridge across Bobtown Creek in western Nicholas County of Kentucky. The creek rose about 8 feet in ten minutes following an estimated 4.5 inches of rain in one-half hour.

SEPTEMBER

Rainfall associated with Hurricane "Eloise" during the third week of September caused severe and widespread flooding, which resulted in 50 fatalities and several hundred million dollars monetary losses. Particularly hard hit were Puerto Rico where 34 persons perished and losses totalled about $60 million, and the Susquehanna River basin of Pennsylvania and New York where 9 persons died and losses approaching $300 million were sustained. Serious losses also occurred in the Lake Ontario drainage, and in Connecticut, Maryland, and Virginia. Losses were substantially less in several other states.

In Puerto Rico the southwest region was most affected. Over 26 inches of rain fell over the southwest slopes near Sabana Grande during the period September 15-17. Major flooding occurred on 21 rivers on the island. It was most serious in the south and west portions on the Tallaboa, Guayanilla, Anasco, and Culebrinas Rivers (which crested at stages estimated by the U.S. Geological Survey to have a return period greater than 100 years) and also on the Patillas, Cerrillos, Bucana, Portuguese, Guanajibo, Rosario, and Loco Rivers; and on the Rio Grande de Arecito in the western interior. In addition to the

34 lives lost in Puerto Rico, more than 275 persons were injured and over 10,000 were left homeless.

Record September rainfall occurred over the Susquehanna Basin, due in large measure to the effects of Hurricane "Eloise." Almost continuous rain fell from the 22d to the 26th, with totals of 5 to 7 inches over most of the basin but with 10 to 15-inch totals over the lower and middle Susquehanna Valley. Serious flash flooding occurred along many of the smaller streams in the Basin. The main stem Susquehanna River crested at stages ranging 5 to 13 feet above flood level. The crest was 6.8 feet over flood stage at Harrisburg, PA, the sixth highest of record. In the New York portion of the basin the Chemung River crested 12 feet over flood stage at Chemung, the second highest of record at that point.

Damages were extensive in the Susquehanna Basin although only a small fraction of those which occurred during the floods caused by Hurricane "Agnes" rains in June 1972. In Pennsylvania, preliminary loss estimates were about $242 million, with 5 fatalities and 20,000 evacuees. In New York, losses were put at $54 million, with $32 million in Chemung County alone. There were 4 fatalities, and 3,500 evacuees.

Flooding and flash flooding in parts of the Potomac River basin in Maryland and Virginia, as well as along several smaller tributaries in the Chesapeake Bay drainage, caused damage totalling about $40 million. The Monocacy River crested 15.8 feet above flood stage at Frederick, MD, where two water system pumping stations and a sewage treatment plant were closed. Urban and flash flooding of small streams in Maryland caused an estimated $24 million in damage and 3,500 persons were evacuated from their homes. Ellicott City, MD, was hardest hit. Almost $12 million damage occurred to homes and businesses along Four Mile Run in Arlington County and in Alexandria, VA, where 1,500 persons were evacuated. Also, $3 million damage occurred in Washington, DC, mostly to the Metropolitan Transit Authority.

Nearly $1 million damage occurred along South Carolina streams where one death occurred. Flash flooding also took one life near Rupert, WV, in Red Rock Canyon in California, and in Las Vegas, NV.

OCTOBER

A mid-month storm caused the most significant flooding and flash flooding during October, particularly in Mississippi, Tennessee, and Kentucky, while minor to moderate overflow occurred thru the East Coast drainage as a result of the same storm.

The middle portion of Tennessee received an average of 4 inches of rain on the 17th-18th with as much as 6 inches locally. Up to 6-foot overflow occurred on the Duck and 4 to 5-foot overflow on the Elk River. Over 20,000 acres of corn and soybeans were flooded. Crop losses were put at $3 million and total losses in the state at $10 million. Considerable lowland flooding occurred in Kentucky, where 30,000 acres were affected along portions of the main stem Ohio, the Green, Barren, and Salt Rivers.

As much as 6 inches of rain fell over the headwaters of the Tombigbee River in Mississippi. The resultant flooding and flash flooding caused almost $1 million damage, mostly to agriculture. And flooding and flash flooding in the Pearl and Pascagoula Basin caused almost $1 million damage and the loss of one life. Considerable damage also occurred in the Big Black Basin in Mississippi where flash flooding from Bear Creek forced 200 families from their homes in Canton.

NOVEMBER

There was no serious flooding during November. Minor to moderate lowland overflow occurred in several widely scattered local areas in the country including the East Coast drainage, and in a few places in the central and plains states and north Pacific coastal drainages.

Severe urban flooding did occur in several areas including Birmingham, Mobile, and Baldwin County in Alabama; New Orleans, LA; and San Juan, PR.

DECEMBER

Heavy snow followed by excessive rainfall caused the most serious flooding in recent history early in December in river basins which drain the west slopes of the Cascade Mountains in Washington State. Stampede Pass, WA, received a total of 18.81 inches of rain in five days and five hours from the evening of November 29 thru December 4. Of this amount, 6.75 inches fell in the 24-hour period ending 11 p.m., December 1, a value estimated to have a return period greater than 50 years. Rivers reached record to near-record heights. The Snohomish River crested at Snohomish, WA, at a record high stage of 33.2 feet, 8.2 feet above flood stage, on December 4. The Snoqualmie, Stillaguamish and the Chehalis Rivers rose to levels only a little lower than the highest of record. Water overflowed dikes in the lower Snohomish Valley and some dikes failed. In Snohomish County alone there were 35,000 acres flooded with about 1,300 head of cattle drowned and 130 homes flooded. There were seven western Washington counties declared disaster areas by the State and Federal Governments. In all, there were 108,900 acres inundated, 4,800 persons displaced, and more than 1,500 residences flooded. Preliminary estimates place the flood losses for the coastal streams of Washington at $21 million.

Other parts of the Pacific Northwest also experienced serious flooding during early December. In the Columbia River Basin, damage totalling more than $4 million was reported in the Yakima watershed in Washington. And more than $1 million damage was reported in the Willamette River basin in Oregon. Also, flooding along north coastal streams in Oregon (the Wilson, Nehalem, Siuslaw, and other rivers) caused damages of about $850,000.

Minor to moderate flooding and only light damage occurred in scattered areas in other parts of the country from the plains to the east coast.

ANNUAL FLOOD LOSSES FOR UNITED STATES

Annual Flood Losses and Savings for years 1933 to 1947, inclusive, have been published in the Monthly Weather Review as follows:

Year	Issue	Pages
1933	Vol. 62, No. 1, Jan. 1934	25-27
1934	Vol. 62, No. 12, Dec. 1934	465-467
1935	Vol. 63, No. 12, Dec. 1935	362-365
1936	Vol. 65, No. 1, Jan. 1937	28-31
1937	Vol. 66, No. 12, Dec. 1938	426-430
1938	Vol. 68, No. 9, Sept. 1940	262-263
1939	Vol. 68, No. 11, Nov. 1940	329-330
1940	Vol. 69, No. 7, July 1941	217-218
1941	Vol. 71, No. 11, Nov. 1943	185-186
1942 & 1943	Vol. 73, No. 8, Aug. 1945	137-139
1944 & 1945	Vol. 76, No. 6, June 1948	113-116
1946	Vol. 76, No. 9, Sept. 1948	208-210
1947	Vol. 77, No. 9, Sept. 1949	262-265

Annual flood loss data for the year 1948 and for subsequent years are published in Climatological Data, National Summary as follows:

Year	Issue	Year	Issue
1948	August 1950	1961	Annual 1962
1949	Annual 1950	1962	Annual 1963
1950 & 1951	Annual 1951	1963	Annual 1964
1952	Annual 1952	1964	Annual 1965
1953	Annual 1953	1965	Annual 1966
1954	Annual 1955	1966	Annual 1967
1955	Annual 1956	1967	Annual 1968
1956	Annual 1957	1968	Annual 1969
1957	Annual 1958	1969	Annual 1970
1958	Annual 1959	1970	Annual 1971
1959	Annual 1960	1971	Annual 1972
1960	Annual 1961	1972 & 1973	Annual 1975

Prior to 1933 Flood Losses and Savings were published monthly, as a rule, in the Monthly Weather Review.

LOSS OF LIFE AND PROPERTY IN THE UNITED STATES FROM FLOODS

[illegible]

District	1933		1934		1935		1936		1937		1938		1939		1940	
	Lives	Property	Lives	Property	Lives	Property	Lives	Property	Lives	Property	Lives	Property	Lives	Property	Lives	Property
Great Lakes	[illegible]	11	---	[illegible]	[illegible]		[illegible]	[illegible]	---	[illegible]	---	240	[illegible]	11		
North Atlantic	2	5,418	---	[illegible]	---	[illegible],340	[illegible]	146,035	---	2,689	[illegible]	37,068	[illegible]	56	[illegible]	2,519
South Atlantic	---	19	---	[illegible]	---	77	[illegible]	2,391	---	989	---	[illegible]	[illegible]	454	[illegible]	5,034
East Gulf	---	444	---	[illegible]	[illegible]	[illegible]	[illegible]	1,240	---	[illegible]	---	1,655	[illegible]	[illegible]	---	[illegible]
Ohio	[illegible]	7,725	[illegible]	928	[illegible]	[illegible],536	[illegible]	122,296	[illegible]	413,936	[illegible]	[illegible]	[illegible]	3,773	[illegible]	8,077
Upper Mississippi*	1	1,157	[illegible]	[illegible],023	---	[illegible],506	---	[illegible]	[illegible]	1,127	[illegible]	[illegible]	---	228	---	199
Lower Mississippi	---	6,933	---	---	[illegible]	[illegible],631	---	[illegible]	[illegible]	6,657	---	1	---	1,448		
Missouri	2	1,391	[illegible]	[illegible]	[illegible]	[illegible],959	---	109	[illegible]	1,367	[illegible]	4,333	---	610	[illegible]	1,759
Arkansas	---	776	[illegible]	[illegible]	1	[illegible],344	[illegible]	817	---	1,557	---	2,202	---	[illegible]	[illegible]	1,332
Red	---	38	[illegible]	640	[illegible]	[illegible],751	---	[illegible]	---	24	---	[illegible]	---	22	---	[illegible]
West Gulf	---	1,160	---	422	[illegible]	[illegible],522	[illegible]	[illegible]	---	1,830	[illegible]	6,003	---	360	7	7,622
Colorado	---	---	[illegible]	---	[illegible]	[illegible]	---		---	[illegible]	---	256	---	13	---	180
Pacific	[illegible]	11,604	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	9,245	[illegible]	39,990	---	---	---	8,236
Total	[illegible]	[illegible]	[illegible]	10,362	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	101,098	[illegible]	13,834	[illegible]	40,467

District	1941		1942		1943		1944		1945		1946		1947		1948	
Great Lakes	--	---	-	153	1	9,564	-	130	[illegible]	[illegible]	---	251	[illegible]	5,761	[illegible]	20,270
North Atlantic	--	---	[illegible]	22,321	1	1	---	[illegible]	[illegible]	5,729	[illegible]	8,500	[illegible]	198	1	12,467
South Atlantic	---	89	-	608	---	[illegible]	-	1,926	---	1,007	-	172	[illegible]	944	[illegible]	1,372
East Gulf	---	24	[illegible]	155	---	773	[illegible]	2,660	---	268	---	2,963	[illegible]	654	---	3,122
Ohio	---	1,122	[illegible]	16,546	[illegible]	31,416	---	806	[illegible]	52,887	[illegible]	10,914	[illegible]	7,812	[illegible]	16,871
Upper Mississippi*	--	3,018	1	5,592	[illegible]	42,097	[illegible]	27,031	---	9,288	1	8,642	[illegible]	87,937	---	2,905
Lower Mississippi	-	---	---	475	-	829	[illegible]	1,550	---	3,601	[illegible]	4,407	1	2,555	---	5,390
Missouri	[illegible]	12,019	1	22,511	[illegible]	62,630	[illegible]	44,616	[illegible]	34,403	---	8,305	[illegible]	163,176	[illegible]	31,490
Arkansas	[illegible]	13,346	---	6,577	[illegible]	41,850	[illegible]	11,171	[illegible]	15,068	---	1,791	1	1,424	[illegible]	18,721
Red	---	[illegible],835	---	2,205	[illegible]	44	--	1,676	[illegible]	22,209	---	1,434	-	1,446	---	220
West Gulf	[illegible]	[illegible],458	2	12,489	---	2,589	[illegible]	8,938	1	10,987	[illegible]	15,967	--	330	[illegible]	4,604
Colorado	[illegible]	[illegible],061	[illegible]	3	[illegible]	310	---	575	[illegible]	182	---	---	---	3	---	1
Pacific	---	1,532	[illegible]	8,872	[illegible]	7,477	[illegible]	---	11	9,530	---	[illegible]	--	88	[illegible]	111,826
Great Basin	---	---	---	---	[illegible]	---	---	---	---	520	---	[illegible]	---	---	---	---
Total	[illegible]	[illegible],324	68	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

District	1949		1950		1951		1952		1953		1954		1955		1956	
Great Lakes	--	1,619	[illegible]	33,542	---	131	---	2,350	1	2,654	---	15,000		[illegible]	---	1,327
North Atlantic	[illegible]	9,273	[illegible]	7,149	[illegible]	916	[illegible]	1,222	[illegible]	10,637	11	7,337	211	[illegible]	[illegible]	1,453
South Atlantic	[illegible]	291	---	1,203	-	[illegible]	-	236	---	109	1	546	2	[illegible]	[illegible]	2,720
East Gulf	---	1,747	---	1,435	---	4,310	[illegible]	347	[illegible]	2,444	---	543	6	5,300	[illegible]	1,379
Ohio	[illegible]	4,754	[illegible]	25,195	[illegible]	4,889	[illegible]	[illegible]	[illegible]	778	[illegible]	18,594	15	14,645	[illegible]	17,836
Upper Mississippi*	-	406	[illegible]	[illegible],060	[illegible]	71,799	[illegible]	22,439	[illegible]	5,602	1	24,656	---	85	---	388
Lower Mississippi	---	10,020	[illegible]	10,071	[illegible]	5,996	---	444	[illegible]	7,857	--	490	---	1,352	---	865
Missouri	[illegible]	33,503	18	[illegible],090	[illegible]	889,872	8	181,335	[illegible]	[illegible]	---	11,999	[illegible]	2,753	[illegible]	6,360
Arkansas	---	6,696	---	8,294	[illegible]	44,331	---	5	[illegible]	2,020	---	296	2	5,362	---	24
Red	2	365	1	1,105	---	2,101	[illegible]	836	--	2,061	---	923	---	2,003	[illegible]	250
West Gulf	18	22,462	---	417	---	238	[illegible]	9,584	[illegible]	34,849	29	21,639	[illegible]	4,286	[illegible]	3,714
Colorado	---	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]	---	7	---	1,890	---	2,173	---	---
Pacific	[illegible]	2,640	[illegible]	37 362	2	3 260	[illegible]	20,251	---	8,931	1	2,929	63	186,785	6	27,930
Great Basin	--	---	---	4,127	[illegible]	---	---	9,999	---	---	---	---	---	5,946	4	[illegible]
Total	[illegible]	[illegible]	[illegible]	176,050	[illegible]	[illegible],028,741	[illegible]	[illegible]	[illegible]	122,204	55	106,842	302	995,491	[illegible]	[illegible]

District	1957		1958		1959		1960		1961		1962		1963		1964	
Great Lakes	1	1	---	10	--	12,746	2	1,942	1	[illegible]	--	---	[illegible]	35,872	---	[illegible]
North Atlantic	---	11	---	167	--	6,952	[illegible]	15,274	---	1,168	---	8	[illegible]	1,325	---	11,342
South Atlantic	---	166	--	3,917	---	631	-	172	---	600	---	97	---	89	---	16,786
East Gulf	---	4,526	---	3,434	---	241	[illegible]	13,780	[illegible]	30,386	---	5,768	---	1,726	---	10,490
Ohio	[illegible]	135,972	[illegible]	68,248	8	82,503	1	7,519	[illegible]	33,748	[illegible]	30,583	[illegible]	98,824	15	94,034
Upper Mississippi*	8	[illegible]	-	20,770	[illegible]	3,427	[illegible]	12,901	1	25,320	1	5,341	---	413	---	---
Lower Mississippi	6	15,608	---	11,979	---	199	[illegible]	[illegible]	---	11,462	---	3,546	---	293	---	1,125
Missouri	15	26,057	21	45,819	[illegible]	12,162	8	28,105	7	33,990	2	10,501	[illegible]	14,705	37	41,902
Arkansas	5	50,082	---	360	2	12,886	[illegible]	3,480	[illegible]	9,173	[illegible]	1,254	[illegible]	563	[illegible]	1,607
Red	6	16,037	---	11,768		880	---	226	---	1,609	---	581	[illegible]	2,361	---	124
West Gulf	16	73,057	[illegible]	18,127	1	2,886	11	8,205	1	2,945	2	1,948	---	640	5	7,178
Colorado	---	741	---	240	---	100	---	---	[illegible]	552	---	1,080	---	---	---	55
Pacific	-	23,397	[illegible]	33,404	---	5,638	2	876	1	1,825	[illegible]	12,198	---	15,305	42	463,959
Great Basin	---	---	---	12	---	1	--	-	---	1,039	---	2,332	---	3,530	---	2,715
Hawaii	---	---	---	---	---		---	---	---	---	---	---	---	2,300	---	---
Total	[illegible]	360,303	[illegible]	[illegible]	[illegible]	141,255	12	[illegible]	[illegible]	154,033	19	[illegible]	[illegible]	[illegible]77,946	100	651,642

District	1965		1966		1967		1968		1969		1970		1971		1972	
Great Lakes	---	20	--	176	1	398	---	[illegible]	[illegible]	[illegible]	--	3,100	---	[illegible]	3	169,106
North Atlantic	[illegible]	55	1	535	-	3,726	[illegible]	[illegible]	[illegible]	131,921		918	[illegible]	167,918	119	[illegible],762.256
South Atlantic	---	268	1	375	---	610	-	---	[illegible]	1,962	2	2,338	---	1,205	[illegible]	29.005
East Gulf	--	2,665		6,388	---	2,614	---	[illegible]	-	4,888	[illegible]	14,970	---	7,784	-	45.848
Ohio	[illegible]	3,591	1	10,193	[illegible]	52,000	[illegible]	[illegible]	[illegible]	80,459	3	10,158		12,263	138	137 158
Upper Mississippi*	[illegible]	182,053	---	14,167	---	3,431	---	3,309	9	120,892	[illegible]	22,017		1,008	3	23.965
Lower Mississippi	--	811	---	1,438		1,046	---	5,997	1	3,838	1	14,831		7,737	---	14 091
Missouri	[illegible]	451,832	[illegible]	16,021	1	100,617	---	8,655	1	77,530	1	22,911	[illegible]	7,862	241	182,867
Arkansas	[illegible]	70,152		5,245		3,731	1	9,793	1	5,911	3	5,942	[illegible]	6,181	3	2.652
Red		852	[illegible]	2,702	---	48	---	17,268	3	1,467		94	[illegible]	20,566	---	12.994
West Gulf	[illegible]	40,039	[illegible]	27,608	[illegible]	[illegible]	[illegible]	24,302	10	13,132	8	4,149	[illegible]	26,528	31	23.006
Colorado	[illegible]	12,648	[illegible]	4,919		3,598	[illegible]	509	-	106	33	5,015	--	4,031	9	24.965
Pacific	11	18,745	[illegible]	[illegible]	[illegible]	5,106	---	1,149	66	426,994	21	50,654	---	12,202	[illegible]	36.116
Great Basin	-	4,315	---	11,712	---	475	---	939	---	[illegible]	---	356	---	1,860	[illegible]	81
Alaska	---	---	---	---	--	98,550	---	---	---	---	---	---	-	---	---	1 025
Hawaii	--	---	---	---	---	1,029	---	2,500	---	---	---	---	---	---	---	---
Puerto Rico & V. Is.	---	-	---	---	---	---	---	---	1	[illegible]	57	68,000	---	---	---	---
Total	[illegible]	[illegible]	29	117,004	27	[illegible]	[illegible]	39,399	297	902,654	135	225,453	[illegible]	278,145	[illegible]	[illegible]

District	1973	
Great Lakes	---	[illegible],939
North Atlantic	[illegible]	[illegible]44 213
South Atlantic		22.552
East Gulf	[illegible]	11 503
Ohio	[illegible]	112 088
Upper Mississippi*	[illegible]	[illegible] 544
Lower Mississippi	[illegible]	553.732
Missouri	1	300,418
Arkansas	[illegible]	101 065
Red	[illegible]	115 900
West Gulf	[illegible]	143,352
Colorado	--	1,433
Pacific	[illegible]	12.179
Great Basin	---	
Alaska	---	1 500
Hawaii	---	---
Puerto Rico & V. Is.	---	---
Total	[illegible]	[illegible],894,493

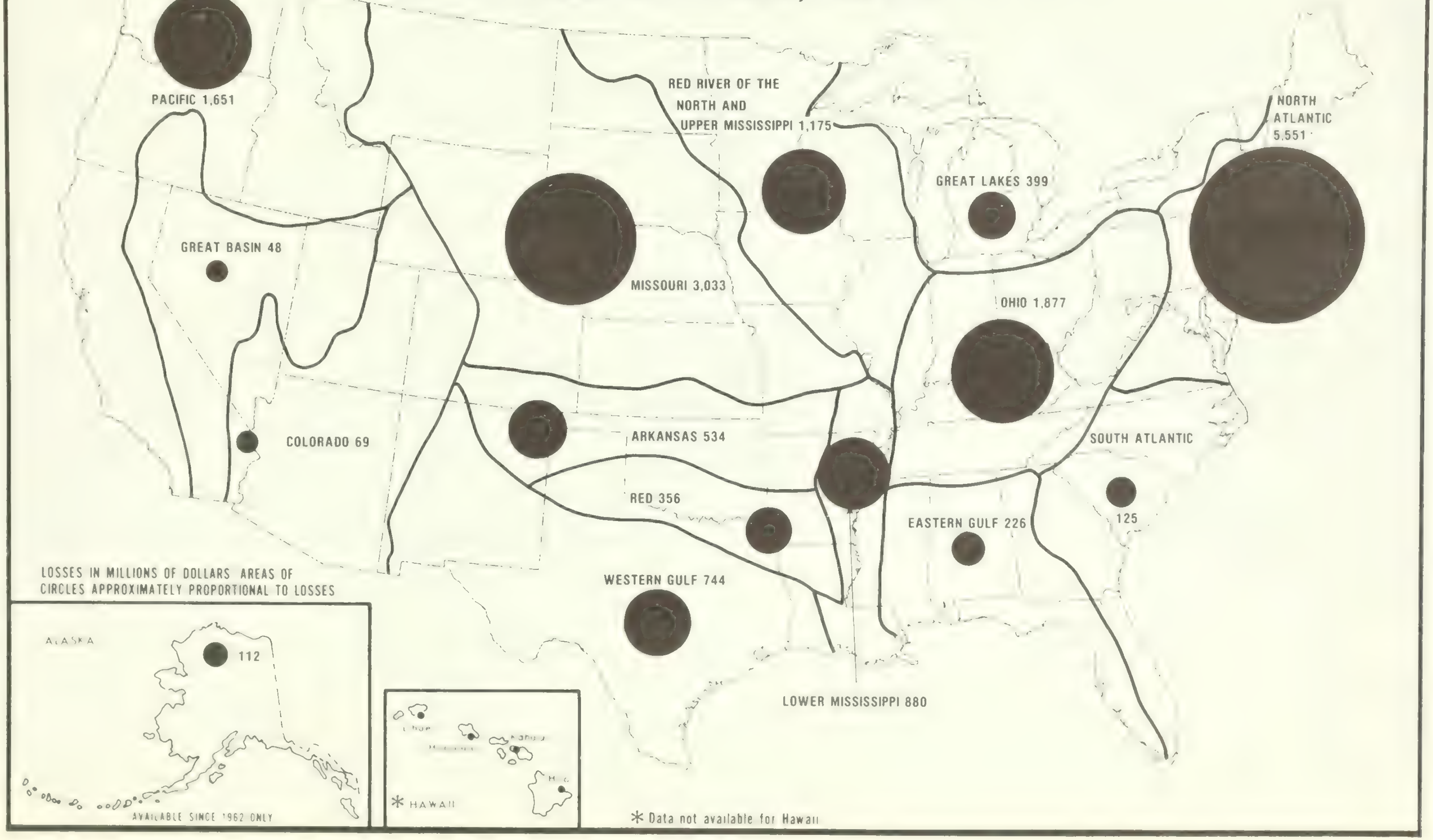
*Including Red River of the North. **The 1966 to 1972 Ann [illegible] table which lists data for the period 1925 to 1932.

LOSS OF LIFE AND PROPERTY IN THE UNITED STATES FROM FLOODS

PROPERTY LOSSES IN THOUSANDS OF DOLLARS
By Months and Years, 1925-1973

	January		February		March		April		May		June		July		August		September		October		November		December		Total	
Year	Property	Life	Property	Life	Property	Life	Property	Life	Property	Life	Property	Life	Property	Life	Property	Life	Property	Life	Property	Life	Property	Life	Property	Life	Property	Life
1925	3,614	2	141	0	74	0	–	0	65	6	3,980	14	140	0	275	0	1,171	14	380	0	83	0	–	0	9,923	36
1926	19	0	600	0	77	0	293	0	–	0	–	1	55	0	7	0	7,729	6	12,699	6	135	0	1,854	3	23,468	16
1927	2,626	8	1,857	0	407	0	283,207	232	7,566	95	1,125	0	241	0	3,460	0	–	0	1,627	0	45,093	88	437	0	347,656	123
1928	4	0	9	0	758	0	1,168	0	105	0	12,296	1	13,339	0	9,272	3	4,047	5	–	0	3,567	6	46	0	44,611	15
1929	122	0	2,964	0	21,947	47	1,937	0	15,668	5	10,268	5	4,959	32	130	0	92	0	9,379	0	556	0	76	0	68,098	89
1930	7,110	0	7	0	146	0	–	0	5,021	14	3,042	0	244	0	251	0	–	0	29	0	–	0	–	0	15,850	14
1931	–	0	30	0	572	0	–	0	8	0	13	0	1,215	0	201	0	2	0	1	0	744	0	22	0	2,808	0
1932	1,207	0	–	0	165	0	373	0	1,552	0	1,245	0	1,627	0	763	0	2,666	11	335	0	3	0	359	0	10,295	11
1933	308	0	87	0	2,008	1	2,709	4	10,785	4	2,650	4	1,117	0	6,516	4	489	0	10	0	–	0	10,000	16	36,679	33
1934	5,002	45	9	0	706	0	1,693	34	–	0	899	0	178	0	322	9	84	0	28	0	1,287	0	154	0	10,362	88
1935	297	0	1	0	2,177	4	2,698	5	16,903	40	62,702	122	29,370	52	159	5	7,551	0	2,691	0	61	0	2,517	8	127,127	236
1936	341	0	2,107	6	145,936	24	124,743	82	1,118	6	124	0	2,248	20	205	0	5,046	4	378	0	118	0	5	0	282,549	142
1937	411,481	65	7,691	75	62	0	4,524	0	2,627	0	5,429	0	124	2	760	0	140	0	256	0	97	0	7,546	0	440,738	142
1938	260	0	3,712	2	27,819	86	3,008	0	12,402	0	3,624	58	10,373	9	232	8	39,641	17	3	0	5	0	19	0	101,098	180
1939	3	0	1,657	4	738	0	1,982	0	37	0	4,271	1	1,725	78	3,408	0	13	0	–	0	–	0	–	0	13,834	83
1940	58	0	7,246	0	1,048	2	2,185	0	438	0	2,790	12	5,314	0	18,853	40	2,135	6	88	0	95	0	217	0	40,467	60
1941	3	0	516	0	820	2	1,970	4	3,081	7	12,718	12	314	0	23	0	6,247	15	10,446	7	3,361	0	25	0	39,524	47
1942	131	0	1,901	1	327	0	18,369	2	14,837	31	25,586	1	13,064	17	267	0	3,234	0	5,678	2	–	0	15,113	14	98,507	68
1943	3,579	4	69	5	7,183	8	10,161	5	130,478	57	41,771	0	2,870	3	3,651	25	–	0	–	0	–	0	–	0	199,732	107
1944	3	0	35	1	2,633	3	42,646	13	24,103	0	24,535	16	3,198	0	928	0	1,708	0	108	0	–	0	1,182	0	101,079	33
1945	146	0	5,882	0	33,202	14	54,054	36	23,530	0	28,866	8	8,280	3	2,942	13	1,059	3	1,424	3	–	0	6,413	11	165,798	91
1946	13,385	0	4,015	0	631	0	2	0	12,587	12	20,343	3	1,636	4	1,148	0	7,346	9	1,965	0	1,134	0	6,441	0	70,813	28
1947	486	3	96	0	1,458	0	56,037	2	18,032	1	193,134	48	652	1	1,431	0	455	0	248	0	5	0	304	0	272,328	55
1948	6,479	6	11,429	1	17,896	4	28,667	15	107,244	35	22,160	15	17,550	2	1,144	0	590	0	–	0	3,553	0	13,247	4	229,959	82
1949	9,772	6	5,073	2	11,676	3	9,261	2	18,195	10	32,861	17	3,762	5	568	0	618	0	1,551	2	578	1	16	0	93,931	48
1950	4,619	3	6,925	7	3,451	7	14,668	0	51,126	21	22,340	34	19,224	6	1,687	0	3,718	4	5,562	3	6,638	3	36,092	5	176,050	93
1951	884	0	5,823	2	7,264	1	18,287	2	15,166	6	5,383	8	972,458	25	2,509	7	621	0	–	0	–	0	346	0	1,028,741	51
1952	9,139	14	926	1	1,909	9	199,127	10	6,438	3	22,775	2	3,858	9	296	0	9,376	6	–	0	30	0	190	0	254,064	54
1953	8,575	1	368	0	10,675	2	–	0	41,656	5	53,572	29	3,873	1	1,926	2	887	0	42	0	300	0	330	0	122,204	40
1954	2,554	4	84	0	20	0	557	0	6,213	1	52,076	20	2,218	2	6,606	3	3,170	8	33,341	17	0	0	3	0	106,842	55
1955	–	0	1,620	4	17,372	17	2,653	4	9,231	2	3,825	1	1,071	0	712,085	193	3,471	0	52,442	18	1,168	0	190,553	63	995,491	302
1956	9,455	0	2,731	3	3,403	2	1,202	0	24,799	10	2,300	4	5,849	15	11,671	4	–	0	1,892	0	137	3	1,249	1	64,688	42
1957	61,383	15	29,750	2	–	0	106,130	18	44,182	13	101,696	32	4,669	0	722	2	335	0	2,663	0	8,610	0	163	0	360,303	82
1958	273	0	12,501	11	11,193	0	21,145	3	24,884	2	67,537	0	42,779	29	18,631	1	14,560	0	2,336	1	2,416	0	–	0	218,255	47
1959	95,601	8	2,448	0	2,031	6	427	0	7,181	8	890	0	557	0	5,550	0	1,844	0	19,602	3	4,970	0	154	0	141,255	25
1960	534	1	713	2	29,988	4	28,056	0	2,214	3	9,956	13	9,038	1	677	0	5,266	0	5,818	6	360	0	356	0	92,976	32
1961	32	0	13,870	1	14,242	3	5,053	0	67,785	6	4,324	4	5,825	25	3,974	6	26,041	7	580	0	1,161	0	10,666	0	154,033	52
1962	884	0	24,906	9	28,417	4	8,920	0	1,893	0	2,265	2	2,428	1	708	0	3,266	3	–	0	580	0	970	0	75,237	19
1963	2,343	0	16,392	0	99,429	31	2,302	0	1,573	0	14,682	3	4,261	4	36,926	1	38	0	–	0	–	0	–	0	177,946	39
1964	787	0	15	0	97,945	14	16,763	1	1,313	0	71,666	37	29	0	517	0	5,477	3	16,432	1	750	2	439,948	42	651,642	100
1965	11,084	0	2,566	2	4,158	1	180,337	16	36,328	3	495,750	66	24,705	17	193	0	9,652	0	894	0	–	0	22,379	14	788,046	119
1966	13,114	0	12,823	2	2,012	1	40,460	16	1,315	0	4,377	1	840	4	17,773	0	658	0	–	0	528	2	23,104	5	117,004	31
1967	2,213	0	–	0	42,182	4	6,453	0	3,043	1	104,097	5	1,191	4	7,877	0	101,135	11	140	0	–	2	106,887	7	375,218	34
1968	7,436	4	2,971	0	45,925	2	2,053	0	245,670	17	11,216	0	16,350	3	4,009	3	594	0	104	0	–	0	3,071	2	339,399	31
1969	302,378	64	108,781	8	4,065	1	179,999	9	8,798	4	35,403	3	118,455	33	123,524	157	4,557	0	4,931	2	2,000	3	9,763	13	902,654	297
1970	50,941	18	257	1	10,147	3	13,914	8	28,622	6	29,417	3	4,002	4	3,595	10	16,214	25	67,045	53	111	3	1,188	1	225,453	135
1971	8,347	0	12,354	1	3,343	0	2,781	0	7,354	2	6,366	2	6,274	5	157,450	29	50,814	22	2,630	7	1,096	0	28,716	6	287,525	74
1972	16,253	4	14,815	128	9,480	0	19,238	4	29,950	23	4,229,819	350	24,222	2	26,758	1	40,015	9	32,837	24	108	3	21,640	6	4,465,135	554
1973	10,478	1	16,023	3	438,544	14	409,591	38	540,262	21	209,489	30	7,709	11	43,897	8	74,706	4	128,246	10	6,019	2	9,529	6	1,894,493	148
Total	1,085,743	276	346,806	284	1,167,662	324	1,929,493	565	1,633,378	480	6,077,653	987	1,405,661	429	1,246,447	534	468,478	194	426,861	165	98,117	118	973,290	227	16,859,589	4,583
Average	22,158	6	7,078	6	23,830	7	39,377	12	33,334	10	124,034	20	28,687	9	25,438	11	9,561	4	8,711	3	2,002	2	19,863	5	344,073	94

DISTRIBUTION OF ESTIMATED FLOOD LOSSES IN THE UNITED STATES BY MAJOR RIVER SYSTEM, 1925-1973


PACIFIC 1,651
GREAT BASIN 48
COLORADO 69
MISSOURI 3,033
RED RIVER OF THE NORTH AND UPPER MISSISSIPPI 1,175
GREAT LAKES 399
NORTH ATLANTIC 5,551
OHIO 1,877
ARKANSAS 534
RED 356
SOUTH ATLANTIC
125
EASTERN GULF 226
WESTERN GULF 744
LOWER MISSISSIPPI 880
ALASKA
112
AVAILABLE SINCE 1962 ONLY
* HAWAII

LOSSES IN MILLIONS OF DOLLARS AREAS OF CIRCLES APPROXIMATELY PROPORTIONAL TO LOSSES

* Data not available for Hawaii

LOSSES IN INDIVIDUAL SEVERE FLOODS IN THE UNITED STATES SINCE JULY 1902

Property Losses in Thousands of Dollars

Date *	Location	Lives **	Property
May-June 1903	Kansas, Lower Missouri, and Upper Mississippi Rivers	100	$ 40,000
March 1912	Lower Mississippi River	---	70,000
March 1913	Ohio River and tributaries	467	147,000
December 1913	Texas Rivers	177	9,000
June 1921	Arkansas River in State of Colorado	120	25,000
September 1921	Texas Rivers	215	19,000
Spring of 1927	Mississippi Valley	313	284,118
November 1927	New England Rivers	88	45,578
May-June 1935	Republican and Kansas Rivers	110	18,000
July 1935	Upper Susquehanna Tributaries	52	26,000
March-April 1936	Rivers in Eastern United States	107	270,000
Jan.-Feb. 1937	Ohio and Lower Mississippi River Basins	137	417,685
March 1938	Streams in Southern California	79	24,500
September 1938	Rivers in New England	---	37,000
July 1939	Licking and Kentucky Rivers	78	1,715
August 1940	Rivers in Southern Virginia, the Carolinas, and Eastern Tennessee	40	12,000
May 1942	Delaware and Susquehanna River Basins	33	13,000
July 1942	Upper Allegheny River and Sinnamahoning Creek Basins	15	10,000
Nov.-Dec. 1942	Willamette River	10	6,900
April-June 1943	Maumee, Wabash, Upper Mississippi, Missouri, White, and Arkansas River Basins	60	172,500
August 1943	Little Kanawha River	23	1,300
April-June 1944	Upper Mississippi, Missouri, Arkansas, Red, and Lower Mississippi River Basins and East Texas Rivers	17	82,000
Feb.-March 1945	Ohio River	18	30,000
May-July 1947	Lower Missouri and Middle Mississippi River Basins	29	235,000
May-June 1948	[1]Columbia River Basin	35	101,725
May 1949	Trinity River	10	14,000
June 1949	Shenandoah and Potomac Rivers	11	8,850
June 1950	Rivers in Central West Virginia	31	4,020
June-July 1951	[2]Kansas and Missouri	28	923,224
April 1952	[3]Red River of the North, Upper Mississippi, and Missouri River Basins	11	198,000
April-May 1953	Louisiana and Texas	12	38,959
June 1953	Northwestern Iowa	14	32,950
June 1954	Middle Rio Grande and Lower Pecos Rivers	16	19,079
October 1954	Pecos River in New Mexico	13	1,783
March 1955	Ohio River Basin	15	14,396
August 1955	[4]Hurricane "Dianne" Floods in the Northeast	187	714,079
December 1955	[5]West Coast Rivers	61	154,532
Jan.-Feb. 1957	[6]Streams in Southeastern Kentucky, Southwestern West Virginia, and adjacent areas in Tennessee and Virginia	14	58,000
February 1957	Snake River and Tributaries	---	20,500
April-June 1957	Rivers in Texas, Arkansas, Kansas, Louisiana, Missouri and Oklahoma	18	105,000
June-July 1957	Wabash River and Tributaries	---	63,000
June 1958	White and Wabash Rivers	---	57,000
July 1958	Flash Flood on East Nishnabotna River (Iowa)	19	5,850
January 1959	Ohio River Basin	---	81,921
July 1961	Flash Flooding on Small Streams in Charleston, W.Va.	22	3,238
March 1963	Ohio River Basin	26	97,600
June 1964	Montana	31	54,279
December 1964	California and Oregon	40	415,832
March 1964	Ohio River Basin	13	81,602
March-May 1965	[7]Upper Mississippi, Missouri, and Red River of the North River Basins	16	181,325
May 1965	Brazos River	---	30,802
June 1965	South Platte River Basin	16	415,076
June 1965	Sanderson, Texas Flash Flood	26	2,715
June 1965	Arkansas River Basin	16	58,340

LOSSES IN INDIVIDUAL SEVERE FLOODS IN THE UNITED STATES SINCE JULY 1902

Property Losses in Thousands of Dollars

Date*	Location	Lives **	Property
April-May 1966.	Sabine and Trinity Basins, Texas	14	$ 20,100
June 1967	Platte River Basin in Nebraska------------	---	35,275
September 1967...	Hurricane "Beulah" floods in Texas--------	---	98,239
August 1967.......	Tanana and Chena Rivers in Alaska---------	---	98,550
May 1968...........	Rivers in Northern New Jersey------------	---	166,690
Jan.-Feb. 1969...	Floods in California---------------------	60	399,233
March-April 1969..	[8] Snowmelt Floods in Upper Midwest----------	---	151,000
July 1969.........	Northern Ohio----------------------------	30	87,915
August 1969.......	[9] James River Basin in Virginia-------------	153	116,000
January 1970.......	Sacramento River Basin-------------------	18	38,120
September 1970....	Arizona----------------------------------	23	5,000
October 1970.......	Puerto Rico------------------------------	50	62,000
August 1971.........	New Jersey ("Doria" rainfall)------------	---	138,700
September 1971....	Southeastern Pennsylvania----------------	13	19,010
February 1972.....	Buffalo Creek, West Virginia-------------	125	10,000
May 1972..........	South-central Texas Flash Floods----------	18	17,500
June 1972.........	Black Hills of South Dakota---------------	237	164,947
June 1972.........	Eastern U.S. (Hurricane "Agnes" floods)---	105	4,019,721
Spring 1973........	Mississippi System------------------------	33	1,154,770
May 1973..........	South Platte Basin in Colorado------------	---	120,400
May 1973..........	Flash Flooding in Mountains of North Carolina and Southwest Virginia---------	12	29,485
June 1973........	Connecticut Basin in Vermont, Connecticut and New Hampshire----------------------	11	64,000
June 1973.........	San Jacinto Basin and small adjacent basins in southeast Texas---------------	10	62,500

* The 1966 to 1972 Annual Issues of Climatological Data, National Summary (as well as various earlier issues) contain this table which lists additional significant severe floods during the period of record.

** No entry indicates that fewer than ten lives were lost.

References

1. Monthly Weather Review, January 1949
2. Technical Paper No. 17
3. Technical Paper No. 23
4. Technical Paper No. 26
5. Climatological Data, National Summary, December 1955
6. Climatological Data, National Summary, January 1957
7. Technical Paper No. WB-3
8. NOAA Technical Report No. 13
9. Climatological Data, National Summary, October 1970
10. Climatological Data, National Summary, June 1972; Geological Survey Professional Paper 924

FLOOD DAMAGE ESTIMATES BY STATES

1955-1973
Flood Losses in Thousands of Dollars

States	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966
Alabama	3,379	720	2,324	872	-	670	12,625	3,529	1,280	5,343	723	2,366
Alaska	-	*			-		**	***	-	-	-	-
Arizona	226				100	-	325	1,000	-	55	11,330	3,050
Arkansas	61	255	27,938	6,202	3,090	580	3,503	91	2,500	598	143	5,055
California	165,767	8,745	13	33,063	4	516	95	2,780	11,834	229,168	11,321	24,347
Colorado	2,567	5,135	2,901	240	-	-	-	80	50	-	452,293	707
Connecticut	379,360	-	-		-	750	-		-	-	-	-
Delaware	117	-	-	-	-	-	-	-	-		-	-
District of Columbia	-	51	-	60	-	-	-	-	-	-	-	-
Florida	106	1,891	-	-	150	12,047	317	1,481	-	426	144	548
Georgia	1	212	1,068	323	-	392	5,236	-	445	3,641	397	1,628
Hawaii	-	-	-	100	-	-	-	-	2,300	-	-	-
Idaho	1,371	6,222	20,896	3	500	-	939	8,112	2,766	11,704	4,184	-
Illinois	102	1,026	1,206	17,970	1,506	7,503	11,553	891	513	3,044	30,564	577
Indiana	1,003	4,021	66,748	52,302	12,958	2,649	13,306	670	8,266	12,327	20	3,098
Iowa	35	51	1,543	7,508	128	7,612	9,389	6,778	70	240	32,462	904
Kansas	474	13	9,164	4,606	4,061	1,947	13,397	1,826	168	370	29,792	97
Kentucky	6,629	568	55,233	3,817	2,480	3	12,969	16,885	36,917	35,476	1,044	1,671
Louisiana	30		4,147	2,842	-	112	6,074	1,908	-	30	-	250
Maine					61		800		-		-	528
Maryland	5,450	837		10	-	-	-	-	-	-	53	
Massachusetts	155,982			-	-	6,400	-	-	-	-	-	-
Michigan	-	1,278		-	-	1,181	-	-	-	-	-	-
Minnesota		11	9,128	17	50	212	552	1,290	26	-	97,603	4,300
Mississippi	3,132	1,270	2,693	13,826	280	744	15,918	1,982	19	3,152	1,931	2,706
Missouri	666	167	9,618	38,718	6,018	13,506	27,375	557	152	6,591	33,976	2,781
Montana	63	317	33	1	82	57	-	147	148	54,389	253	-
Nebraska	1,500	865	5,983	3,064	3,753	8,884	674	2,630	13,394	5,146	1,368	11,628
Nevada	7,398	237	-	-	-	-	891	762	2,858	2,454	4	307
New Hampshire	-	-	-	-	4,500	100	-	-	-	-	-	-
New Jersey	23,102	-	-	3	-	-	-	-	-	-		-
New Mexico	1,066			-	-	-	-	-	620	1,235	4,833	1,048
New York	30,072	1,089	166	42	5,667	7,229	608	-	33,102	3,275	-	-
North Carolina	625	831	788	3,201	506	100	1,400	-	-	15,816	88	198
North Dakota	2	-	100	-	28	136	-	-	-	-	5,192	9,700
Ohio	753	1,056	7	4,867	54,840	191	1,217	6,512	22,359	28,039	-	1,893
Oklahoma	977	-	35,665	169	8,907	2,638	2,483	792	413	798	2,508	12
Oregon	9,515	6,376	310	363	20	360	757	1,550	299	187,101	5,679	2,283
Pennsylvania	141,381	7,199	1,048	3,582	21,109	3,072	612	15	5,397	16,938	-	705
Rhode Island	28,830			-	-	-	-	-	-	-	-	-
South Carolina	74		60	680	122	72	369	97	89	1,809	268	140
South Dakota	11	10	3,969	-	-	3,417	1	3,030	-	-	740	470
Tennessee	977	279	5,118	128	-	226	2,263	651	6,262	156	2,472	1,608
Texas	5,165	3,715	78,881	18,101	2,886	8,093	2,846	1,948	20	5,435	39,395	28,001
Utah	226	210	169	10	4	-	281	1,272	64	70	1,746	1,577
Vermont	-	-	-		-	-	-	-	-	692	-	-
Virginia	10,695	-	159	-	28	211	231	-	5,937	-	2	
Washington	1,165	6,472	1,664	50	4,914	-	130	-	1,013	11,817	1,012	592
West Virginia	5,187	3,185	11,052	1,170	709	370	3,455	5,914	17,624	4,169	49	1,868
Wisconsin	30	335	-	-	1,791	996	1,442	57	142	-	14,067	361
Wyoming	200	11	526	3	-	-	-	-	899	138	390	-
TOTAL	995,491	64,688	360,303	218,255	141,255	92,976	154,033	75,237	177,946	651,642	788,046	117,004

States	1967	1968	1969	1970	1971	1972	1973
Alabama	1,695	408	88	10,891	2,170	2,278	5,439
Alaska	98,550	-	-	-	8,631	1,090	1,500
Arizona	3,576	188	-	5,000	3,476	20,868	-
Arkansas	1,497	21,099	3,411	639	2,549	1,780	129,579
California	1,370	-	423,296	47,798	3,522	1,132	9,480
Colorado	-	-	66	2,040	-	15	121,383
Connecticut	-	100	528	-	-	15,414	1,950
Delaware	-		-	-	50	-	-
District of Columbia	-	-	-	-	-	2,533	-
Florida	95	46	2,858	145	476	41,206	2,282
Georgia	23	133	79	318	243	328	5,143
Hawaii	1,029	2,500	-	-	500	-	-
Idaho	792	-	111	38	1,187	355	-
Illinois	2,629	2,576	9,095	9,124	462	5,927	258,704
Indiana	4,618	22,463	6,672	2,300	1,690	4,700	6,326
Iowa	1,116	1,650	6,233	977	681	13,262	12,724
Kansas	15,093	2,304	10,991	4,138	1,644	1,646	53,772
Kentucky	17,583	6,036	8,075	707	6,099	15,841	10,491
Louisiana	-	2,810	251	1,000	-	100	334,904
Maine		-	300	-	-	-	11,200
Maryland	125	-	200	15	8,600	218,206	
Massachusetts	-	35,000	-	-	-	10	-
Michigan	-	100	13	-	-	10	530
Minnesota	-	1,197	67,168	4,350	15	64,318	242
Mississippi	1,192	6,269	1,900	3,586	12,431	10,248	226,885
Missouri	39,080	890	36,601	14,926	191	5,783	231,438
Montana	2,947	-	388	581	412	595	-
Nebraska	40,644	6,029	1,826	-	5,941	73	10,388
Nevada	15	1	-	138		-	-
New Hampshire	-	800	400		-	-	19,100
New Jersey	1,438	166,690	580	-	138,700	15,050	50,868
New Mexico		-	-	-	-	6,613	251
New York	777	-	3,383	3,953	1,000	747,674	5,000
North Carolina	1,168	-	1,338	2,326	965	10,772	39,004
North Dakota	-	-	37,436	13,832	1,266	537	-
Ohio	6,622	20,074	87,916	2,478	782	12,929	8,317
Oklahoma	[illegible]	3,021	762	5,212	23,166	12,006	38,119
Oregon	1,044	538	938	2,518	4,350	12,977	2,699
Pennsylvania	7,251	421	3,310	365	20,899	2,786,294	5,935
Rhode Island	388	9,000	-	-	-	-	
South Carolina	579	-	625	52	295	69	7,674
South Dakota	1,125	123	31,898	19	-	165,086	-
Tennessee	1,090	648	1,090	13,260	86	6,634	66,273
Texas	98,259	24,267	12,878	3,150	26,538	20,605	136,758
Utah	453	1,260	237	222	1,033	358	2,270
Vermont	-	100	680	-	-	10	66,466
Virginia	581		123,552	148	1,158	180,770	1,615
Washington	1,910	611	2,722	380	3,908	21,029	-
West Virginia	14,235	47	5,996	297	1,653	37,974	3,359
Wisconsin	-	-	4,763	-	-	-	6,121
Wyoming	1,096	-	-	500	503	-	304
TOTAL	375,218	339,399	900,654	157,453	287,275	4,465,135	1,894,493

*[illegible] **Major flood in June 1961 ***Ice jam flooding May 1962 also serious flooding in June 1962

GENERAL SUMMARY OF FLOOD LOSSES FOR 1972 LATE REPORTS

Raymond J. Haley
Office of Hydrology, National Weather Service

Monetary losses due to flooding in the United States during 1972 exceeded those of any year since records began. In terms of 1972 dollars, the total for the year, which was put at $4,465,135,000, was more than three times the previous record year of 1951 when damage estimates totalled $1,344,667,000, (adjusted). It was also more than ten times the 21-year (1951-1971) average national flood loss of $443 million (adjusted).

The flooding associated with Hurricane "Agnes" rainfall in late June accounted for damages totalling $4,019,721,000, or 90% of the total losses for the year. And of this figure nearly $2.8 billion (almost 70%) damage occurred in the state of Pennsylvania alone.

In addition to the unprecedented property damage and other monetary losses, there were 554 flood related fatilities during 1972. This is the greatest number of any year going back to 1925, and it is nearly seven times the national average for the 47-year period.

Of the 554 lives lost during the year, 467 persons perished in what may be considered three separate flood events. The first occurred on the morning of February 26 when a coal waste bank collapsed on the Middle Fork of Buffalo Creek in Logan County, West Virginia. The resulting wall of water estimated to be 30 to 35 feet high swept down the narrow Buffalo Creek Hollow completely or partially destroying some 16 mining towns and killing 125 persons. The second occurred during the night of June 9-10 when torrential rainfall occurred in a short time over the Black Hills of South Dakota and caused severe flooding, particularly along Rapid Creek which flows through Rapid City. This flash flooding took 237 lives. The third event was the record flooding caused by the rainfall associated with Hurricane "Agnes.". Several states were affected with Pennsylvania and New York being the hardest hit. There was a total of 105 lives lost and of this number 67 were in the Susquehanna Basin of New York and Pennsylvania.

GENERAL SUMMARY OF FLOOD LOSSES FOR 1973 LATE REPORTS

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Total flood losses in the United States during 1973, which were estimated to be $1,894,493,000, were the second highest of record. This figure, however, represents only little more than one third (37%) of the losses suffered during 1972 when damages totalled a record $5,082,217,000, adjusted to the 1973 price index. The 1973 losses were more than 2½ times the 22-year (1951-1972) average national flood losses of $712 million (adjusted).

The historic Spring flood in the Mississippi System, which affected parts of a dozen states and inundated almost 16 million acres, accounted for 61% ($1,154 million) of the total for the year. Other severe flood events during 1973 include the South Platte Basin flood in Colorado during May with property losses totalling more than $120 million; flash flooding in the mountains of North Carolina and southwest Virginia during May which claimed 12 lives and more than $29 million damages; the Connecticut Basin flood in Vermont, Connecticut, and New Hampshire in June during which 11 persons perished and $64 million in damages resulted; and the June flooding in the San Jacinto Basin and vicinity in southeast Texas where 10 lives were lost and damages totalled $62.5 million.

There were 148 flood related fatilities during 1973. This figure is well below the modern record in the United States (554 in 1972), but it is 61% higher than the national average (92) for the 48-year period, 1925 to 1972. Thirty-three lives were lost during the Spring flood in the Mississippi System and of this number, 19 occurred in the Yazoo Basin in the state of Mississippi.

ESTIMATED FLOOD LOSSES FOR 1972 LATE REPORTS

In Thousands of Dollars

ESTIMATED FLOOD LOSSES FOR 1972 LATE REPORTS

In Thousands of Dollars

River Basin and Stream	Urban Property: Residential Fixed	Residential Movable	Commercial and Industrial Fixed	Commercial and Industrial Movable	Public	Rural Property: Crops Growing	Crops Stored	Livestock	Other Fixed	Other Movable	Other Property: Highways, etc.	Emergency Costs	Miscellaneous *	Unclassified	Total Loss **	Lives Lost
EAST GULF OF MEXICO DRAINAGE (contd)																
Black Warrior River	......	......	......	......	......	D 232.5	......	......	......	......	5.1	......	......	......	237.6	...
Noxubee and Tibbee Rivers	......	......	......	......	......	227.6	......	......	......	......	67.8	......	......	......	295.4	...
Tombigbee River	I 17.6	......	......	......	......	D 1,421.5	......	......	......	......	295.1	......	......	......	1,734.2	...
Chickasawhay and Leaf Rivers	......	......	......	......	......	18.1	......	......	......	......	......	......	......	......	18.1	...
Pearl Basin	I 154.6	......	......	......	......	D 455.9	......	......	......	......	519.9	......	......	......	960.1	...
Total	130.2	......	......	......	......	3,527.3	......	......	50.1	......	839.6	......	......	11,000.0	15,817.5	...
MISSISSIPPI SYSTEM																
Upper Mississippi Basin																
Flash floods in Blue Earth, Brown, Faribault, Martin & Watonwan Counties, Minn.	......	......	......	......	......	......	......	......	......	......	750.0	......	......	2,500.0	3,250.0	...
Flash floods in 11 counties in central and east central Minnesota	A 3,237.1	......	B 3,992.2	......	......	6,295.0	......	......	......	......	6,800.9	......	42.9	......	20,368.1	1
Flash flooding in Iowa City and small streams in Cedar County, Iowa	......	......	......	......	......	......	......	......	......	......	40.0	......	......	250.0	290.0	...
Des Moines and Raccoon Rivers (Iowa)	......	......	......	......	......	25.0	......	......	......	......	......	......	......	......	25.0	...
Flash floods in St. Louis, Washington and Franklin Counties, Mo.	......	......	......	......	......	16.6	......	......	......	......	1.0	......	......	14.4	32.0	2
Total	3,237.4	......	3,992.2	......	......	6,336.6	......	......	......	......	7,591.9	......	42.9	2,764.4	23,965.4	3
Missouri Basin																
Big Hole River (Mont.)	......	......	......	......	......	122.6	8.0	0.3	241.3	......	92.0	1.0	10.8	......	479.0	...
Willow & Cut Bank Creeks (Browning, Mont.)	......	......	......	......	......	......	......	......	......	......	......	......	......	11.0	11.0	...
Milk River (Mont.)	......	......	......	......	......	......	......	......	......	......	......	......	......	4.0	4.0	...
Yellowstone Basin (Mont.)	0.1	......	......	......	......	56.0	......	......	10.0	5.0	......	20.0	10.0	......	101.1	...
Tributaries in Billings, Dunn, Mercer, Morton, Emmons & Williams Counties (N. Dak.)	......	......	......	......	222.6	......	......	......	......	......	......	......	......	314.8	537.4	...
Oak Creek near Wakpala, S. Dak.	18.5	......	1.0	......	0.5	......	......	......	......	......	1.0	......	2.7	......	23.7	...
Grand & Moreau Rivers (S. Dak.)	0.4	......	......	......	......	......	......	......	......	......	4.4	......	......	......	4.8	...
Black Hills Flood (S. Dak.)	A 37,637.0	......	B 32,668.0	......	1,660.0	546.0	......	......	G 3,423.0	......	35,415.1	10,338.0	43,259.4	......	164,946.8	237
Tributaries of James River (S. Dak.)	......	......	......	......	......	......	......	......	......	......	6.7	......	......	100.0	106.7	...
Big Sioux Basin (S. Dak.)	......	......	......	......	......	......	......	1.1	0.5	......	2.0	......	......	......	3.6	...
Bow Creek near Wynot, Nebr.	......	......	......	25.0	......	......	......	......	......	......	11.0	......	......	......	36.0	...
North Fork Elkhorn River (Nebr.)	5.0	......	0.5	......	10.0	2.0	......	1.0	4.0	......	15.0	......	......	......	37.5	...
Nishnabotna River (Iowa)	A 946.1	......	B 555.6	......	......	5,273.0	......	......	846.3	......	2,943.0	351.9	121.5	375.8	11,413.2	2
Wolf Creek in Northeast Kansas	......	......	......	......	......	12.0	......	1.2	......	......	64.0	......	......	......	77.2	...
Nodaway River (Iowa & Mo.)	12.0	......	4.0	6.0	347.0	1,452.0	7.0	39.6	128.0	2.0	338.5	......	......	......	2,336.1	...
Platte River (Iowa)	......	......	......	......	......	30.0	......	......	5.0	......	25.0	......	......	......	60.0	...
Republican, Smoky Hill & Big Blue Basins (Kans.)	205.0	11.7	102.0	32.0	117.7	252.5	1.3	8.5	27.4	2.1	41.5	12.0	5.0	......	839.7	1
Kansas River & minor tributaries (Kans.)	18.7	6.0	......	......	133.0	180.0	1.0	7.0	13.0	7.0	38.0	17.0	6.0	......	426.7	...
Chariton River (Iowa)	......	......	......	......	......	260.0	......	......	10.0	......	5.0	......	......	......	275.0	...
Grand River (Mo.)	......	......	......	......	......	790.0	......	......	5.0	......	25.0	......	......	......	820.0	..
Marais des Cygnes River (Kans.)	......	......	......	......	......	208.0	......	......	......	......	50.0	......	......	......	258.0	..
Flash flooding in Laclede County, Mo.	10.0	......	......	......	......	20.0	......	6.0	......	4.0	......	......	......	30.0	70.0	1
Total	38,850.8	17.7	33,331.1	83.0	2,490.8	9,204.1	17.3	64.7	1,716.5	20.1	39,080.5	10,739.9	43,415.1	835.6	182,867.5	241
Ohio Basin																
Allegheny Basin (Pa. only - no estimates available for N.Y. portion)	......	......	......	......	......	......	......	......	......	......	......	......	......	6,906.9	6,906.9	...
Monongahela Basin (Pa.)	......	......	......	......	......	......	......	......	......	......	......	......	......	11,266.5	11,266.5	...
Tygart River (W. Va.)	......	......	......	......	......	......	......	......	......	......	0.5	......	1.5	......	2.0	...
Little Kanawha (W. Va.)	......	......	......	......	......	......	......	......	......	......	......	......	......	452.2	452.2	...
Buffalo Creek (W. Va.)	......	......	......	......	......	......	......	......	......	......	......	......	......	10,000.0	10,000.0	125
Twelve Pole Creek Basin (W. Va.)	......	......	......	......	......	......	......	......	......	......	114.5	......	......	......	114.5	2
Big Sandy Basin (W. Va. & Ky.)	15.0	......	25.0	......	20.0	......	......	......	......	......	50.0	......	......	5,515.0	5,625.0	...
Scioto Basin (Ohio)	......	......	......	......	......	......	......	......	......	......	......	......	......	288.0	288.0	...
Little Miami River (Ohio)	10.0	6.0	9.0	8.0	18.0	2.0	1.0	......	5.0	3.0	12.0	13.0	9.0	......	96.0	...
Licking Basin (Ky.)	J 301.0	17.0	22.0	12.0	38.0	218.0	5.0	3.0	18.0	7.0	131.0	5.0	28.0	......	805.0	6
Red River (Ky.)	28.0	12.0	19.0	12.0	50.0	22.0	3.0	4.0	16.0	5.0	26.0	4.0	26.0	......	227.0	...
Kentucky River (Ky.)	1,512.0	190.0	318.0	265.0	1,560.0	206.0	57.0	5.0	195.0	156.0	185.5	28.0	348.0	......	5,025.5	2
Rolling Fork (Ky.)	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	2
Green & Rough Rivers (Ky.)	......	......	......	......	......	......	......	......	......	......	......	......	......	1,906.0	1,906.0	...
Wabash River & tributaries (Ind. & Ill.)	1.8	......	......	......	7.5	310.0	......	......	18.0	......	......	......	3.0	3,192.0	3,532.3	...
Saline River (Ill.)	......	......	......	......	......	......	......	......	......	......	......	......	......	392.0	392.0	...

See reference notes at end of table.

ESTIMATED FLOOD LOSSES FOR 1972 LATE REPORTS

In Thousands of Dollars

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Miscellaneous *	[illegible]	Total **	[illegible]
Ohio Basin (Cont'd)																
[illegible] (Ky. & Tenn.)	10.0	......	......	......	1.5	85.0	......	......	6.0	20.0	......	......	......	......	[illegible]	[illegible]
Flash flooding in [illegible] County, [illegible]	......	......	......	......	......	......	......	......	......	......	[illegible]	......	......	......	[illegible]	[illegible]
[illegible]	C 311.0	......	......	......	......	......	......	......	......	......	......	......	......	......	[illegible]	[illegible]
[illegible]	29[illegible].0	130.0	[illegible]50.0	......	......	......	......	......	......	......	......	20.0	......	[illegible]	[illegible]	[illegible]
[illegible]	1,[illegible]21.[illegible]	8[illegible]5.1	1,1[illegible]	1,[illegible]11.4	[illegible],299.3	......	......	......	......	......	1,224.[illegible]	[illegible]81.[illegible]	1,[illegible]	[illegible]	[illegible]	[illegible]
Total.....	1,211.[illegible]	1,218.[illegible]	1,896.[illegible]	1,81[illegible].4	6,998.1	843.0	66.0	12.0	258.0	181.0	2,247.7	284.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Arkansas-White Basin																
White River (Ark.)	......	......	......	......	15.0	2,417.0	......	......	26.0	8.0	26.0	......	......	......	2,4[illegible]	[illegible]
[illegible]	0.[illegible]	0.2	......	......	1.0	1.5	......	1.6	1.0	0.1	......	......	[illegible]	......	[illegible]	[illegible]
[illegible]	......	......	......	......	20.0	11.0	......	......	3.5	1.0	[illegible]	......	......	......	[illegible]	[illegible]
[illegible]	......	......	......	......	......	120.0	......	......	......	......	......	......	......	......	[illegible]	[illegible]
Total.....	0.[illegible]	0.2	......	......	36.0	2,5[illegible]	......	1.6	29.[illegible]	12.[illegible]	2[illegible].0	......	0.1	......	[illegible]	[illegible]
Red Basin																
[illegible]	......	......	......	......	......	50.0	......	......	......	......	......	......	......	[illegible]	[illegible]	[illegible]
Flash flooding in [illegible] County, [illegible]	......	......	......	......	......	......	......	......	......	......	......	......	......	[illegible]	[illegible]	[illegible]
[illegible] River (Ark.)	......	......	......	......	89.8	151.0	[illegible].0	12.0	23.0	18.0	1[illegible].0	......	......	......	[illegible]	[illegible]
Flash flooding in Rapides Parish, La.	......	......	......	......	......	......	......	......	......	......	......	......	......	[illegible]	[illegible]	[illegible]
Total.....	......	......	......	......	89.8	201.0	[illegible].0	12.0	2[illegible].0	18.0	1[illegible].0	......	......	12,[illegible]0.[illegible]	[illegible]	...
Lower Mississippi Basin																
[illegible]	......	......	......	......	......	750.0	......	......	......	......	[illegible]50.0	......	......	......	[illegible]	[illegible]
Flash flooding, Shelby County, Tenn.	......	......	......	......	......	[illegible],000.0	......	......	......	......	......	......	......	[illegible]	[illegible]	[illegible]
St. Francis River (Ark.)	......	......	......	......	......	60.0	......	......	1[illegible].0	......	......	......	......	......	[illegible]	[illegible]
[illegible] (Miss.)	......	......	......	......	......	[illegible],278.0	......	......	921.0	......	1,700.0	191.0	......	......	[illegible]	[illegible]
[illegible] River (Miss.)	......	......	......	......	......	D 2[illegible]6.0	......	......	......	......	......	......	......	......	[illegible]	[illegible]
Mississippi River below Cape Girardeau, Mo.	......	......	......	......	1[illegible].0	821.0	......	......	2[illegible].0	......	8.0	......	[illegible]	....	1,1[illegible]	...
Total.....	......	......	......	......	1[illegible].0	10,168.0	......	......	9[illegible].0	......	[illegible]	19[illegible]	[illegible]05.0	[illegible]	[illegible]	...
West Gulf of Mexico Drainage																
Flash flooding in Snyder and Austin, [illegible]	A [illegible]60.0	......	B 1,500.0	......	80.0	......	......	......	......	......	......	......	......	[illegible]	[illegible]	
Flash flooding in San Antonio & [illegible], Tex.	......	......	......	......	......	......	......	......	......	......	......	......	......	[illegible]	[illegible]	[illegible]
[illegible] and San Marcos Rivers (Texas)	......	......	......	......	......	......	......	......	......	......	......	......	......	[illegible]	[illegible]	[illegible]
[illegible] River (Texas)	......	......	......	......	......	......	......	......	......	......	......	......	......	[illegible]	0.[illegible]	[illegible]
Flash flooding in Rio Grande Basin (New Mexico)	......	......	......	......	......	......	......	......	......	......	[illegible]00.0	......	......	[illegible]	[illegible]	...
Total.....	360.0	.....	1,500.0	......	80.0	......	......	......	......	......	[illegible]60.0	......	......	[illegible]	33,[illegible]	[illegible]
Gulf of California Drainage																
San Juan River (Utah)	......	......	......	......	......	5.0	......	......	[illegible]2.[illegible]	......	[illegible].0	......	......	......	[illegible]	[illegible]
Puerco River (N. Mex.)	390.0	......	430.0	......	100.0	......	......	......	......	......	[illegible].0	8.0	[illegible]85.0	[illegible]	1,[illegible]1.0	[illegible]
San Francisco River (Ariz. & N. Mex.)	36[illegible].0	......	278.0	......	247.0	612.0	......	......	122.0	......	[illegible].0	[illegible]	[illegible]1.0	......	[illegible]	[illegible]
Gila River (Ariz. & N. Mex.)	70[illegible].0	......	......	......	......	2,303.0	......	......	1,[illegible]66.0	......	[illegible]4.0	[illegible]	[illegible]20.0	......	[illegible]	[illegible]
[illegible] Phoenix, [illegible]	[illegible],808.0	......	1,256.0	......	182.0	99.0	......	......	......	......	247.0	1[illegible].0	2,[illegible].0	......	[illegible]	[illegible]
Total.....	A 7,268.0	......	B 1,944.0	......	829.0	3,019.0	......	......	1,800.[illegible]	......	2,272.0	[illegible]	[illegible]	[illegible]	21,[illegible]	[illegible]
Great Basin																
[illegible]	......	......	......	......	......	1.8	......	......	......	......	[illegible].0	......	......	[illegible]	[illegible]	...
[illegible]	......	......	......	......	......	......	......	......	......	......	......	......	......	[illegible]	[illegible]	[illegible]
Total.....	......	......	......	......	.....	1.8	......	......	......	......	[illegible].0	......	......	[illegible]	80.[illegible]	[illegible]

See [illegible] at end of table.

ESTIMATED FLOOD LOSSES FOR 1972 LATE REPORTS

In Thousands of Dollars

River Basin or Drainage	Urban Property					Rural Property					Other Property					
	Residential		Commercial		Public	Crops	Stored	Livestock	Other		RR, Bridges, Highways, etc.	Public Utilities	Miscellaneous *	Unclassified	Total Losses **	Lives Lost
	Fixed	Movable	Fixed	Movable					Fixed	Movable						
PACIFIC SLOPE DRAINAGE																
California & Oregon Coast																
Smith River (Calif.)	......	......	......	......	......	190.3	......	4.5	188.1	......	......	......	99.0	......	1,081.9	...
Rogue River (Oreg.)	20.0	1.0	......	......	950.0	10.6	......	......	3.0	......	......	......	201.0	2,733.0	3,918.0	1
Coquille and other coastal rivers (Oreg.)	20.0	1.0	8.0	......	356.0	5.0	......	......	1.8	......	......	......	15.5	658.0	1,065.3	2
Umpqua River (Oreg.)	......	......	......	......	454.0	5.0	......	......	......	......	......	......	265.0	870.0	1,594.0	...
Nestucca River (Oreg.)	A 89.8	......	B 42.4	......	......	D 263.0	......	......	......	......	......	......	......	353.9	749.1	...
Tillamook Bay drainage (Oreg.)	A 129.3	......	B 766.1	......	......	D 1,706.9	......	......	......	......	......	......	......	1,100.8	3,703.1	...
Nehalem River (Oreg.)	A 94.3	......	B 20.9	......	......	D 275.7	......	......	......	......	......	......	......	273.3	664.2	...
Total.....	353.4	2.0	837.7	......	1,760.0	2,755.9	......	4.5	492.9	......	......	......	580.5	5,988.7	12,775.6	3
Columbia Basin																
Okanogan River (Wash.)	......	......	......	......	......	......	......	......	......	......	......	......	......	9,100.0	9,100.0	...
Methow River (Wash.)	......	......	......	......	......	......	......	......	......	......	......	......	......	420.0	420.0	...
Entiat River (Wash.)	......	......	......	......	......	......	......	......	......	......	......	......	......	321.0	321.0	...
Wenatchee River (Wash.)	......	......	......	......	......	......	......	......	......	......	......	......	......	825.0	825.0	...
Yakima River (Wash.)	......	......	......	......	......	......	......	......	......	......	......	......	......	250.0	250.0	...
Palouse Basin (Wash.)	......	......	......	......	......	......	......	......	......	......	......	......	......	458.5	458.5	...
Snake River Basin in Idaho and Oregon	......	......	......	......	......	......	......	......	......	......	......	......	......	170.0	170.0	1
Willamette Basin (Oreg.)	A 101.0	......	B 65.6	......	......	D 12.7	......	......	......	......	......	......	......	858.9	1,038.2	1
Columbia River (Wash. & Oreg.)	......	......	......	......	......	......	......	......	......	......	......	......	......	1,718.0	1,718.0	...
Total.....	101.0	......	65.6	......	......	12.7	......	......	......	......	......	......	......	14,151.4	14,330.7	2
Washington Coast & Puget Sound																
Willapa Bay & Grays Harbor Drainage	A 250.0	......	......	......	100.0	......	......	......	......	......	......	......	......	3,550.0	3,900.0	...
Quillayute River	......	......	......	......	......	......	......	......	......	......	......	......	......	100.0	100.0	...
Cedar Basin	......	......	......	......	......	......	......	......	......	......	......	......	......	65.0	65.0	...
Snohomish Basin	......	......	......	......	......	......	......	......	......	......	......	......	......	3,845.0	3,845.0	...
Skagit River	......	......	......	......	......	825.0	......	......	30.0	......	......	......	......	245.0	1,100.0	...
Total.....	250.0	......	......	......	100.0	825.0	......	......	30.0	......	......	......	......	7,805.0	9,010.0	...
ALASKA																
Streams in Sitka and other southeastern Alaska areas	......	......	......	......	......	......	......	......	......	......	......	......	......	140.0	140.0	...
Yukon and Kuskokwim Basins	70.0	35.0	85.0	52.0	......	......	......	......	......	......	500.0	50.0	93.0	......	885.0	...
Total.....	70.0	35.0	85.0	52.0	......	......	......	......	......	......	500.0	50.0	93.0	140.0	1,025.0	...
GRAND TOTAL.....	1,027,162.3	1,303.5	1,039,034.0	1,946.4	172,157.2	468,692.7	88.3	196.2	16,658.3	941.2	333,895.1	102,808.5	976,576.3	323,675.4	4,465,135.4	554

* Damage estimates under this heading usually refer to losses and wages due to suspension of business, and costs of emergency protection, evacuation rehabilitation and relief. ** Most figures are based on flood damage surveys conducted by the National Weather Service, or are estimates contained in reports of Corps of Engineers, U.S. Army. A. Includes all residential. B. Includes all commercial. C. Includes all residential & commercial. D. Includes all agricultural losses. E. Includes urban public property losses. F. Includes Other Property damage. G. Includes Livestock & Moveable losses. H. Includes Rural and Other property losses. J. Includes $250.0 unclassified urban losses. K. Includes Public Utilities. L. Marine damage which includes boats, docks, fish, etc.

ESTIMATED FLOOD LOSSES FOR 1973 LATE REPORTS

In Thousands of Dollars

Reach and Drainage	Urban Property					Rural Property					Other Property					
	Residential		Commercial		Public	Crops		Livestock	Other		RR's, Bridges, Highways, etc.	Public Utilities	Miscellaneous *	Unclassified	Total Loss **	Lives Lost
	Fixed	Movable	Fixed	Movable		Growing	Stored		Fixed	Movable						
ST. LAWRENCE DRAINAGE																
Lake Michigan																
Mill River (Wisc.)	...	...	...	...	...	...	...	...	...	...	...	...	...	98	98	...
Michigan Rivers	...	...	...	...	...	...	...	...	...	...	...	...	...	30	30	...
Total	...	...	...	...	...	...	...	...	...	...	...	...	...	128	128	...
Lake Huron																
Saginaw Basin (Mich.)	...	...	...	...	...	...	...	...	...	...	...	...	...	500	500	...
Total	...	...	...	...	...	...	...	...	...	...	...	...	...	500	500	...
Lake Champlain																
[illegible] in Vermont	A 5,692	...	B 4,045	...	2,025	C 6,474	...	...	...	...	...	...	...	75	18,311	...
Total	5,692	...	4,045	...	2,025	6,474	...	...	...	...	...	...	...	75	18,311	...
ATLANTIC SLOPE DRAINAGE																
Rivers in Maine	A 500	...	B 1,500	...	...	...	...	...	...	...	...	...	800	8,400	11,200	4
Connecticut Basin	A 10,433	...	B 9,164	...	18,392	C 10,367	...	...	...	...	700	...	...	22,100	71,156	15
Rivers in southwest Connecticut	...	...	10	...	...	...	...	...	...	...	...	...	...	15	25	...
Passaic & Raritan Basins & Other New Jersey Streams	A 29,280	...	B 14,931	...	6,143	2	...	...	...	...	6	202	...	...	50,564	[illegible]
Susquehanna Basin (Pa. & N.Y.)	A,B 2,550	...	...	...	2,075	...	...	...	...	...	...	...	...	5,000	9,625	[illegible]
[illegible] Basin (Pa.)	A,B 100	...	...	...	930	...	...	...	...	...	...	...	...	...	1,030	[illegible]
Flash flood on [illegible] (Va.)	...	...	...	...	...	...	...	...	...	...	...	...	...	5	5	[illegible]
Flash flooding on Crabtree Creek & other small streams in Raleigh-Durham, N.C., area	...	...	...	...	...	...	...	...	...	...	...	...	...	15,000	15,000	...
Flash flooding in Lexington, High Point & Winston-Salem, N.C. areas	...	...	...	...	...	...	...	...	...	...	...	...	...	15	15	1
Yadkin Basin (N.C.)	15	15	B 500	...	225	105	...	3	10	2	20	15	55	...	965	...
Neuse River (N.C.)	...	...	...	...	...	C 15	...	...	...	...	...	...	...	...	15	...
[illegible] River (N.C.)	...	...	...	...	...	...	...	...	35	...	...	...	...	6	41	...
Pee Dee Basin (N.C. & S.C.)	A 118	...	...	...	...	C 25	...	...	...	...	10	...	...	62	215	...
Flash flooding in N.C. mountains	A [illegible]	...	...	...	...	C 2,150	...	...	...	...	215	...	...	...	[illegible]	...
Santee Basin (S.C.)	A 468	...	B 1,791	...	25	423	...	5	115	...	563	...	71	11	3,472	1
Cooper River (S.C.)	A 50	...	B 38	...	...	...	...	...	...	...	15	16	...	1	120	...
Ashley River (S.C.)	A 185	...	...	...	45	...	...	...	...	...	330	...	25	12	597	...
[illegible] River (S.C.)	...	...	...	...	...	...	...	...	...	...	...	...	22	...	22	...
[illegible] River (Ga.)	...	...	...	...	75	...	...	...	...	...	...	...	...	62	137	...
Total	45,819	16	31,257	...	28,210	13,087	...	8	160	2	1,299	235	953	45,747	166,765	41
EAST GULF OF MEXICO DRAINAGE																
[illegible] River (Ga.)	A,F 17	...	...	...	...	116	...	...	...	...	62	...	...	...	195	...
Flint River (Ga.)	A,E 29	...	...	...	...	54	...	...	...	...	5	...	...	...	88	...
[illegible] River & [illegible] (Ga.)	A,B 82	...	...	...	...	49	...	...	...	...	1	...	...	2,597	2,729	...
[illegible] River ([illegible])	...	...	...	...	...	...	...	...	...	...	...	...	...	2,000	2,000	[illegible]
[illegible] Basin ([illegible])	A,B 3	...	...	...	...	149	...	...	...	...	132	...	...	...	284	...
[illegible] River ([illegible])	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...
[illegible] ([illegible])	...	...	...	...	...	312	...	...	...	...	104	...	...	...	416	...
[illegible] ([illegible])	2	...	...	...	...	1,994	...	...	...	...	[illegible]	...	...	...	[illegible]	...
[illegible] River ([illegible])	12	...	...	...	...	829	...	...	...	...	17	...	...	...	858	...
Tombigbee River (Ala. & Miss.)	A,E 168	...	...	...	...	2,096	...	...	...	...	322	...	...	...	2,586	...
Pearl & [illegible] Basins (Miss.)	A,B 3	...	...	...	...	47	...	...	...	...	90	...	2	...	142	...
Total	316	...	...	...	...	5,647	...	...	...	...	941	...	2	4,597	11,503	1
MISSISSIPPI SYSTEM																
Upper Mississippi Basin																
Upper Mississippi River & tributaries in Minn., Wis., Iowa, Ill. & Mo. [illegible]	A 24,187	...	B 8,661	...	16,411	D 19,473	...	268	27,434	...	[illegible]	177,092	32,325	58,640	[illegible]	1
[illegible] Basins (Mo.)	...	...	...	...	...	E 315	...	2	4	...	5	...	...	...	326	...
[illegible] River (Ill.)	...	...	...	...	...	...	...	...	...	...	...	...	...	500	500	...
Total	24,187	...	8,661	...	16,411	19,788	...	270	27,438	...	30,392	177,092	32,325	59,140	[illegible]	1
Missouri Basin																
North Platte Basin (Wyo. & Neb.)	[illegible]	...	...	...	...	[illegible]	...	...	60	...	...	...	...	[illegible]	[illegible]	2
South Platte Basin (Colo.)	A [illegible]	...	B [illegible]	...	3,064	[illegible]	...	...	[illegible]	...	[illegible]	[illegible]	28,945	[illegible]	[illegible]	...
Platte River Basin (Neb.)	...	...	...	...	...	410	...	...	[illegible]	...	...	...	...	...	[illegible]	...
[illegible] Basin (Neb.)	16	3	...	...	525	[illegible]	...	...	...	...	[illegible]	...	...	...	[illegible]	...
[illegible] River (Mo.)	...	...	...	...	13	[illegible]	1	...	15	12	25	1	1	...	[illegible]	...
[illegible] Basin (Mo.)	...	...	...	...	200	1,206	2	...	12	2	180	...	1	...	[illegible]	...

See reference notes at end of table.

ESTIMATED FLOOD LOSSES FOR 1973 LATE REPORTS

In Thousands of Dollars

River and Drainage	Urban Property					Rural Property					Other Property		Miscellaneous *	Unclassified	Total Loss **	Lives Lost
	Residential		Commercial		Public	Crops		Livestock	Other		RR's, bridges, Highways, etc.	Public Utilities				
	Fixed	Movable	Fixed	Movable		Growing	Stored		Fixed	Movable						
Missouri Basin (cont'd)																
One Hundred Two Basin (Mo.)	16	8	5	15	......	321	5	......	25	1	228	......	6	......	630	...
Platte Basin (Mo.)	308	5	67	......	292	6,223	20	......	105	55	70	......	55	......	7,200	..
Republican Basin (Kans.)	......	2	......	......	20	C 3,458	......	......	......	......	40	198	......	......	3,718	...
Saline Basin (Kans.)	A 77	......	B 32	......	23	C 4,154	......	......	......	......	94	......	......	......	4,380	...
Solomon Basin (Kans.)	22	2	45	250	220	3,774	......	......	......	......	50	2	4	......	4,369	...
Smoky Hill Basin (Kans.)	156	3	1,058	7	210	6,000	37	2	60	13	118	6	10	......	7,680	...
Little Blue Basin (Kans.)	......	......	......	......	......	1,750	51	3	100	1	200	15	6	......	2,126	...
Big Blue Basin (Kans.-Nebr.)	A 1,301	......	B 1,143	......	758	C 2,356	......	......	......	......	554	220	......	......	6,332	...
Kansas River & minor trib. (Kans.)	555	12	......	1	460	C 7,983	......	......	......	......	1,580	10	......	......	10,601	...
Blue Basin (Mo.)	......	......	120	......	......	......	......	......	......	......	......	......	30	......	150	...
Grand Basin (Mo.)	50	20	10	8	25	C 13,999	......	......	......	......	400	......	12	......	14,524	...
Chariton Basin (Mo.)	......	......	......	......	......	3,407	......	......	10	......	300	......	15	......	3,732	...
East Fork Little Chariton R. (Mo.)	......	......	......	......	......	C 453	......	......	......	......	11	......	......	......	464	...
Blackwater & Lamine Basin (Kans.)	......	......	......	......	......	C 976	......	......	......	......	10	......	......	......	986	...
Marais des Cygnes Basin (Kans.)	......	......	......	......	52	C 7,698	......	......	......	......	132	......	......	......	7,882	2
Osage Basin (Mo.)	......	......	......	......	......	C 4,671	......	......	......	......	215	......	......	......	4,886	...
Missouri main stem & minor tribs.	A 281	......	14	......	3,504	C 57,712	......	......	......	......	742	......	......	......	62,253	...
Missouri Basin in Mo. & Kans. (Spring Flood)	A 2,010	......	B 4,690	......	160	D 11,114	......	......	E 8,458	......	2,455	524	1,419	73	30,903	...
Total	12,132	55	24,339	281	9,556	169,851	116	5	21,133	83	20,811	1,376	30,507	10,173	300,418	4
Ohio Basin																
Flash flood, Girtys Run, Allegheny Co., Pa.	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	1
Flash flooding in Pocahontas, Greenbrier, Summers & Monroe Co's. W. Va.	A,B 196	......	......	......	......	......	......	......	......	......	......	......	......	......	196	...
Flash flooding in Kanawha, Lincoln & Boone Co's., W.Va. & Johnson & Martin Co's., Ky.	A,B 300	......	......	......	10	......	......	......	......	......	200	......	......	170	680	...
Flash flooding Donnally Hollows & Kanawha City, W.Va.	......	......	......	......	......	......	......	......	......	......	......	......	......	1,000	1,000	3
Dry Fork at Berwind W.Va.	A,B 80	......	......	......	......	......	......	......	......	......	......	......	......	......	80	...
Green Basin (Ky.)	......	......	......	......	......	46	......	......	......	......	......	......	......	......	46	...
Wabash Basin (Ind. & Ill.)	......	......	......	......	......	39	......	......	......	......	......	......	......	......	39	...
Harpeth Basin (Tenn.)	20	5	......	......	5	1	......	1	2	1	50	......	......	......	85	...
Flash flood, Corbin, Ky.	A,B 50	......	......	......	......	......	......	......	......	......	......	......	......	......	50	...
Cumberland Basin (Ky.)	357	34	23	7	381	93	21	27	54	21	35	64	760	......	1,877	1
Flash flooding in mountains of N.C. & southwest Va.	A,B10,046	......	......	......	2,557	C 10,484	......	......	......	......	1,183	......	......	1,610	25,880	12
Tennessee Basin (Tenn.,Ala.,Ga.,N.C.)	......	......	......	......	......	......	......	......	......	......	500	......	......	50,000	50,500	8
Ohio River & minor tributaries	......	......	......	......	......	900	......	......	......	......	......	......	4	......	904	...
Ohio Basin (Spring Flood)	A 4,465	......	B 3,480	......	1,122	D 5,266	......	147	E 11,145	......	1,432	1,445	1,478	771	30,751	3
Total	15,514	39	3,503	7	4,075	16,829	21	175	11,201	22	3,400	1,509	2,242	53,551	112,088	28
Arkansas-White Basin																
Arkansas Basin in Kansas (Sept. floods)	434	60	5	7	815	3,977	10	86	193	60	1,647	24	124	......	7,442	...
Arkansas Basin in north-central Oklahoma, including Enid flash flood	......	......	......	......	......	20,000	......	......	......	......	......	......	......	10,000	30,000	8
Flash floods in eastern Okla.	......	......	......	......	......	......	......	......	......	......	......	......	......	500	500	2
White Basin in Mo. & Ark. (Spring Flood)	A 3,240	......	B 1,080	......	1,200	D 21,680	......	30	E 2,685	......	3,771	1,200	12,601	......	47,487	...
Arkansas Basin in Okla., Kans., & Ark. (Spring Flood)	A 621	......	B 677	......	1,296	D 6,322	......	235	E 2,076	......	3,427	299	683	......	15,636	...
Total	4,295	60	1,762	7	3,311	51,979	10	351	4,954	60	8,845	1,523	13,408	10,500	101,065	10
Red Basin																
Sulphur Basin (Tex.)	......	......	......	......	......	136	......	4	2	1	10	......	......	......	153	...
Ouachita Basin in Ark. & La. (Spring Flood)	1,011	......	38	......	3,171	54,126	......	1,910	E21,707	......	2,628	317	5,097	......	90,005	1
Red Basin (except Ouachita & tribs.) in Tex.,Okla.,Ark.,&La.(Spring Flood)	2,636	......	232	......	15	14,982	......	1,791	E 1,093	......	839	328	3,826	......	25,742	...
Total	A 3,647	......	B 270	......	3,186	D 69,244	......	3,705	22,802	1	3,477	645	8,923	......	115,900	1
Lower Mississippi-Atchafalaya Basin																
St. Francis Basin in Ark. & Mo. (Spring Flood)	2,297	......	B 765	......	840	36,453	......	136	E 1,872	......	1,680	840	8,097	......	52,980	...
Yazoo Basin in Miss. & La. (Spring Flood)	12,776	......	B 473	......	12,158	112,888	......	1,303	E20,396	......	4,232	128	5,098	......	169,452	19
Big Black Basin & southwest tributaries in Miss. (Spring Flood)	12	......	......	......	......	2,844	......	76	E 1,766	......	474	6	468	......	5,646	...
Lake Pontchartrain in La. & Miss. (Spring Flood)	538	......	B 90	......	......	2,993	......	300	322	......	846	734	1,251	55	7,129	...
Area between Atchafalaya Floodway & Miss. R. Levees in La.(Spring Flood)	2,145	......	770	......	......	5,782	......	615	E 240	......	517	1,518	5,611	1,102	18,300	...

See reference notes at end of table.

ESTIMATED FLOOD LOSSES FOR 1973 LATE REPORTS

In Thousands of Dollars

River and drainage	Urban Property Residential Fixed	Residential Movable	Commercial Fixed	Commercial Movable	Public	Rural Property Crops Growing	Crops Stored	Livestock	Other Fixed	Other Movable	Other Property RRs, Bridges, Highways, etc.	Public Utilities	Miscellaneous *	Unclassified	Total Loss **	Lives Lost
Lower Mississippi & Atchafalaya Basin (Cont'd)																
Atchafalaya Basin in La. (Spring Flood)	1,196		B 1,369	.	...	1,196	.....	461	E 69	...	326	1,022	50,393	4,515	60,547	.
Mississippi River with tributaries, Cairo, Ill., to Mouth (Spring Flood)	1,539	...	B 3,791	.....	18,757	11,815	...	1,041	10,068	...	1,682	1,963	142,407	9,616	259,678	10
Total	A 27,503	.....	7,258	....	31,755	D 207,271	.....	3,932	34,733	.....	9,757	6,211	214,025	15,287	553,732	29
WEST GULF OF MEXICO DRAINAGE																
[illegible] & Vermilion Bayou in La. (Spring Flood)	A 75	..	B 125	.	...	D 4,848	....	114	E 270	...	98	...	264	.....	5,794	
Calcasieu Basin in La. (Spring Flood)	.....	...	.....	.....	14	476	...	.....	E 270	.	266	2	....	.	1,028	.
Sabine Basin (Tex.)	.....	.....	.....	....	40	C 1,595	...	...	...	...	...	.....	.	1,151	3,986	.
Neches Basin (Tex.)	.....	.....	.....	.....	3	10	...	60	10	.....	35	.....	226	.....	344	.
[illegible] River (Tex.)	.....	.....	.....	.....	....	214	.....	.....	.....	.....		.....	.....	20,160	20,374	.
Trinity Basin (Tex.)	22	2	3	5	150	C 11,892	.....	.....	.....	.....	140	.....	2,439	29,765	44,418	7
[illegible] County flash and other streams in Harris, San Jacinto, Montgomery, [illegible] & [illegible] Galveston Counties, Tex.	....	....	....	....	.....	....	.....	.....	....	....	.....	.....	....	F 65,500	65,500	[illegible]
Flash flooding in upper Brazos Basin (Tex.)	A,B 300	.....	.....	.....	....	.....	.....	.....	....	.....	.....	....	....	.....	300	.
Colorado Basin (Tex.)	.....	.....	.....	.....	1	50	.....	10	9	.....	.....	.....	50	....	120	..
Flash flooding in San Antonio [illegible] (Tex.)	...	55	.....	.....	.....	....	.....	.....	.....	.....	....	....	....	3,000	3,055	11
Guadalupe Basin (Tex.)	...	.....	....	.....	....	75	.....	.....	.....	.....	.....	.....	....	800	875	1
Nueces Basin (Tex.)	...	70	.....	....	.....	....	.....	.....	....	....	...	.	..	100	170	
Flash flooding at [illegible], Tex.	21	.....	.....	.....	.....	24	264	.....	.....	....	19	.....	...	.....	328	.
Total	418	127	128	5	208	19,184	264	184	559	....	518	2	2,979	128,776	143,552	29
GREAT BASIN																
Flash flooding on miscellaneous small creeks in Utah	131	....	25	.....	916	28	....	.....	.....	....	.....	165	.	....	1,275	
[illegible] Basin (Utah)	1	.....	.....	.....	183	139	....	.....	....	.....	.....	.....	....	.	323	..
Sevier Basin (Utah)	25	.....	23	.....	138	68	.....	.....	.....	.....	....	16	....	....	268	..
[illegible] Creek at [illegible] (Utah)	....	.....	..	.....	.....	.....	.....	.....	.....	.....	170	.....	...		170	
North Creek at Beaver, Utah		.....	....	....	....	....	.....	.....	.....	.....	77	.....	....	.....	77	.
Total	A 125	....	B 48	....	1,239	C 235	....	.....	.....	.....	247	181	....	—	2,075	...
GULF OF CALIFORNIA DRAINAGE																
Colorado Basin																
[illegible] River (Utah)	.	....	1	.....	24	161	.....	.....	.....	.....	.....	.....	....	.	187	.
San Juan Basin (Colo., Utah & N.Mex.)	22	.....	9	.....	823	381	.....	.....	.....	.....	...	11	.....	..	1,246	
Total	22	....	B 10	.....	847	C 542	.....	.....	.....	.....	.....	11	...	...	1,433	
PACIFIC SLOPE DRAINAGE																
Flash flooding [illegible] in San Bernardino County, Calif.	...	.. .	.	.....	....	.....	....	.....	....	...	....	....	...	5,000	5,000	3
[illegible] & various small creeks in [illegible]	A 1,295	.....	B 1,573	...	232	....	....	....	.....	....	1,155	186	880	185	4,183	.
[illegible]	.....	....	.....	.....	.....	1	....	.....	.....	.....	6	.....	....	.	7	
[illegible]	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	....	....	369	369	.
[illegible]			....	.....	.....	.....	.....	....	.....	....	...	.	.....	2,325	2,325	.
Total	1,295	..	1,573	.....	232	1	.....	....	.....	.....	1,155	186	880	7,877	12,1[illegible]	4
HAWAII																
[illegible] (Hawaii)	...	.....	.	.....	..	.....	.....	.....	....	....			..	1,900	1,900	
Total	..	....	.....	....	.....	.....	.....	.....	....	....	.....	...	...	1,900	1,900	.
GRAND TOTAL	254,964	291	82,854	308	150,355	580,154	4?1	8,630	122,988	168	79,463	128,969	296,344	627,84?	2,894,191	148

* Includes [illegible] emergency protection, evacuation, rehabilitation and relief. ** Most figures are based on flood damage survey [illegible] reports of Corps of Engineers, U.S. Army. A. Includes all residential losses. B. Includes all commercial losses. [illegible] D. Includes all crop losses. E. Includes movable property losses. F. Mostly urban property losses.

SOLAR RADIATION TOTALS

Average daily values (direct and diffuse) received on a horizontal surface, tabulated in langleys.

YEAR 1975

Station	January	February	March	April	May	June	July	August	September	October	November	December	Annual
ALBUQUERQUE NM	–	–	–	–	–	–	[illegible]57	605	462	43[illegible]	311	229	–
BISMARCK ND	–	–	–	–	–	–	–	–	–	21	162	110	–
CARIBOU ME	–	–	–	–	–	–	468	435	270	2[illegible]9	113	095	–
EL CENTRO CA	–	–	–	–	–	–	644	632	534	455	362	284	–
EL PASO TX	–	–	–	–	–	–	6[illegible]3	592	498	463	353	287	–
ELY NV	–	–	–	–	–	–	63[illegible]	592	512	348	268	210	–
FLAMING GORGE UT	–	–	–	–	–	–	–	–	–	408	–	–	–
FRESNO CA	–	–	–	–	–	–	667	615	49[illegible]	362	255	194	–
GENEVA NY	–	–	–	–	–	–	554	432	288	219	139	085	–
JOHNSTON IS PA	–	–	–	–	–	–	631	600	579	502	409	402	–
LAS VEGAS NV	–	–	–	–	–	–	704	607	493	387	271	255	–
MADISON WI	–	–	–	–	–	–	468	344	347	289	130	086	–
MIAMI FL	–	–	–	–	–	–	465	48[illegible]	422	397	333	303	–
NASHVILLE TN	–	–	–	–	–	–	453	418	320	267	203	148	–
OAK RIDGE TN	–	–	–	–	–	–	463	394	309	245	190	152	–
PAGE AZ	–	–	–	–	–	–	647	620	577	436	319	240	–
PHOENIX AZ	–	–	–	–	–	–	607	585	494	418	309	248	
SEATTLE TACOMA WA	–	–	–	–	–	–	563	414	405	178	095	069	–
STERLING VA	–	–	–	–	–	–	5[illegible]5	452	–	–	195	133	–
SWAN IS W I	–	–	–	–	–	–	517	511	395	343	309	–	–
TALLAHASSEE FL	–	–	–	–	–	–	4[illegible]1	484	382	340	290	241	–

Chart I. Departure from Normal of Annual Temperature (°F) at Surface, 1975

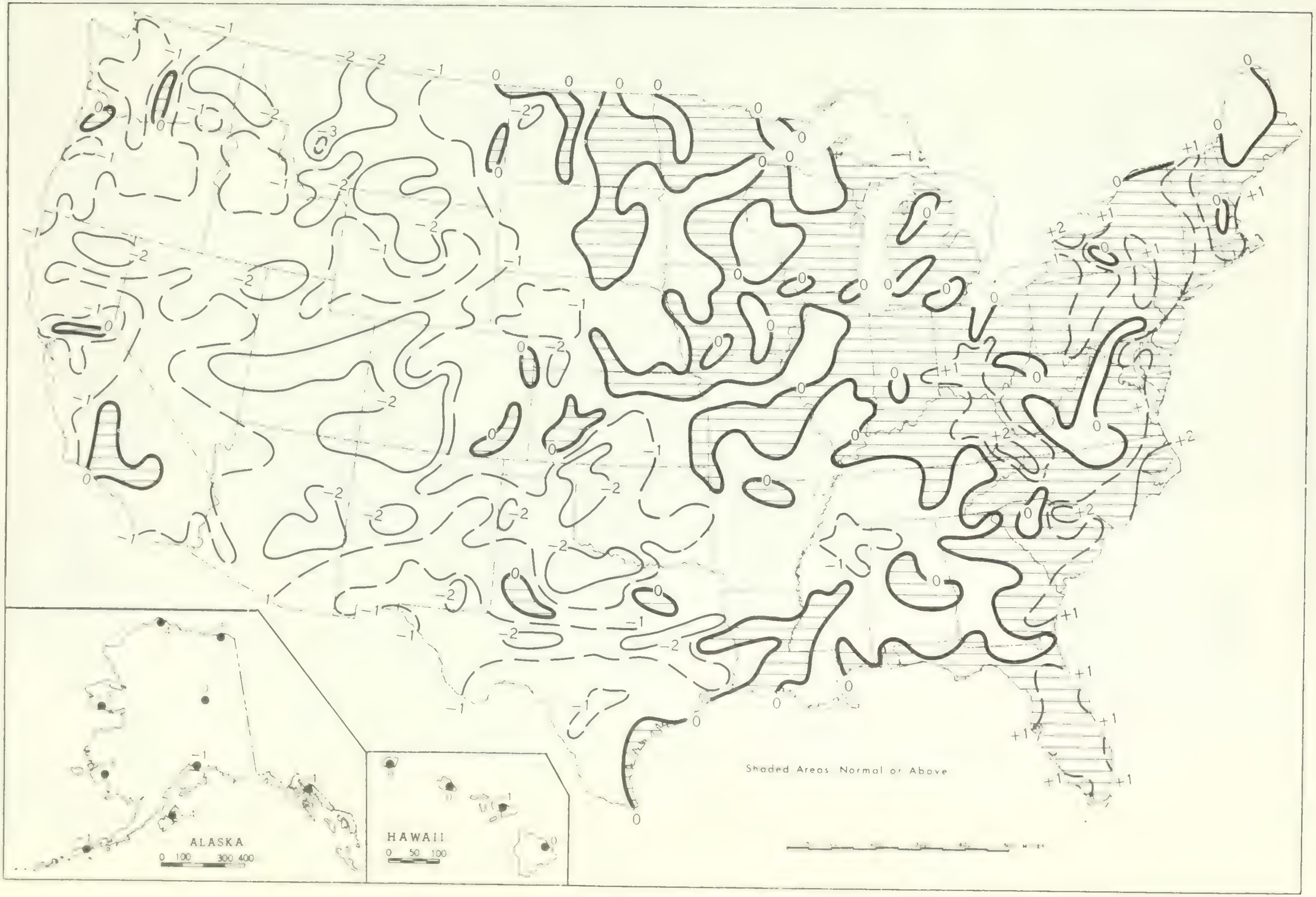

Shaded Areas Normal or Above
ALASKA
0 100 300 400
HAWAII
0 50 100

Chart II. Total Annual Precipitation (inches), 1975

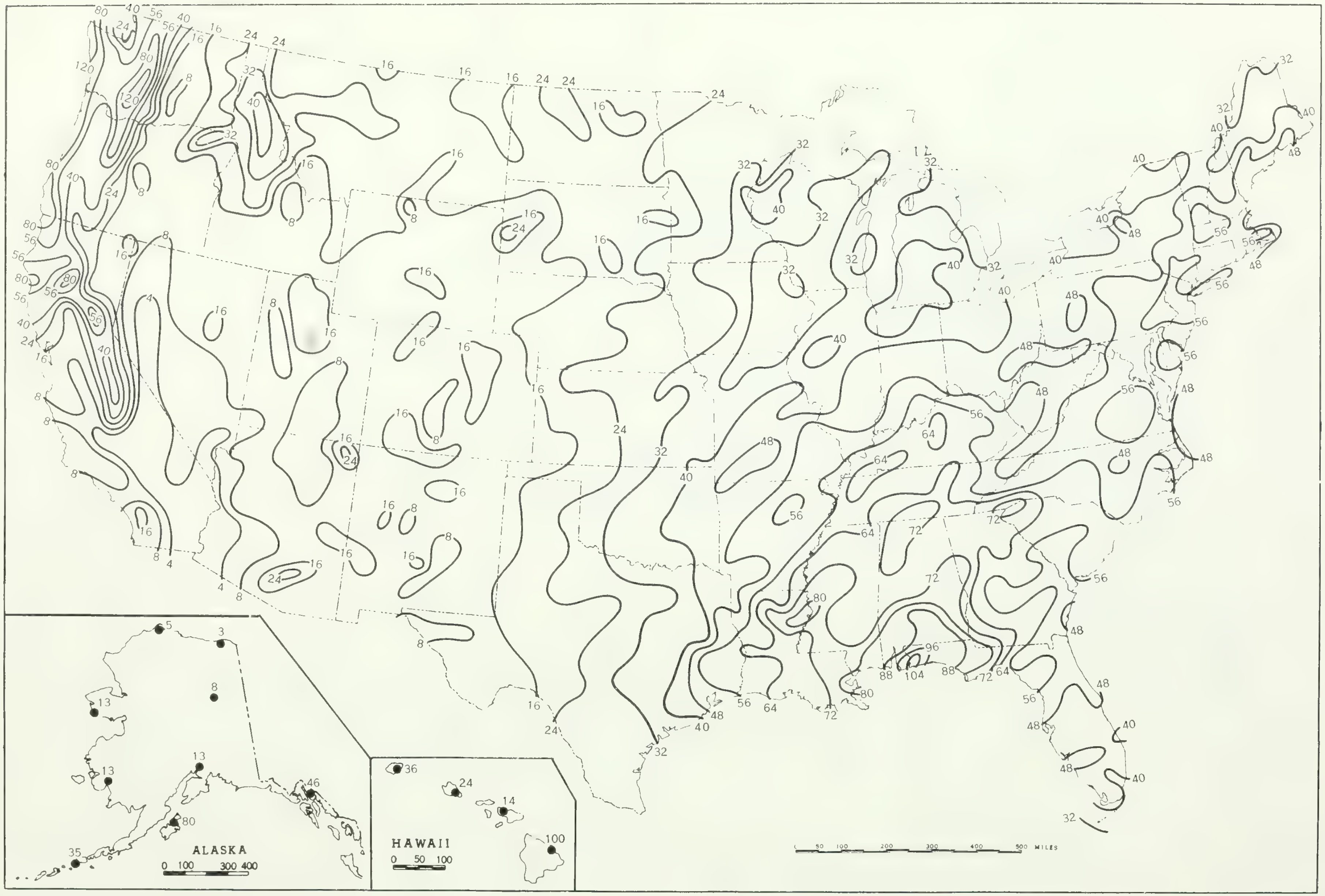
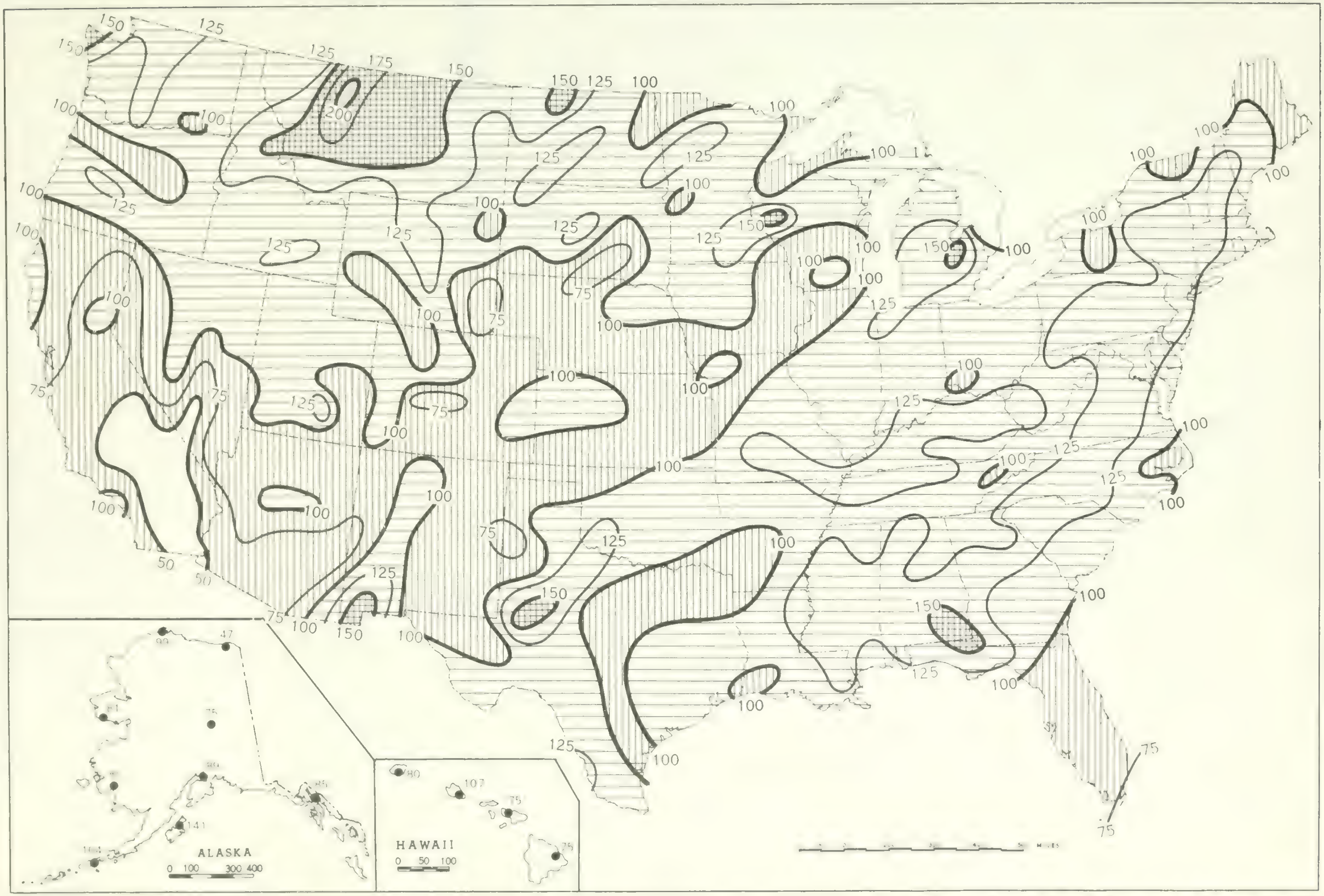

ALASKA
0 100 300 400
5
3
8
13
13
13
80
46
35
HAWAII
0 50 100
36
24
14
100
50 100 200 300 400 500 MILES

Chart III. Percentage of Normal Annual Precipitation, 1975


150
125
175
200
150
125
100
75
50
ALASKA
0 100 300 400
99
47
81
75
89
141
85
HAWAII
0 50 100
80
107
75
75

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